

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121118\
 Data File : VU028549.D
 Acq On : 10 Dec 2018 14:27
 Operator : MD/SY
 Sample : VU1211WBS01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1211WBS01

Quant Time: Dec 11 03:37:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 07 00:39:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	84870	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	146094	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	137867	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	67316	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	66148	51.07	ug/l	0.00
Spiked Amount			Recovery	=	102.14%	
35) Dibromofluoromethane	4.88	113	48184	52.41	ug/l	0.00
Spiked Amount			Recovery	=	104.82%	
50) Toluene-d8	7.57	98	189120	52.00	ug/l	0.00
Spiked Amount			Recovery	=	104.00%	
62) 4-Bromofluorobenzene	10.30	95	70452	51.83	ug/l	0.00
Spiked Amount			Recovery	=	103.66%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.21	85	20987	18.449	ug/l	99
3) Chloromethane	1.33	50	37104	17.741	ug/l	99
4) Vinyl Chloride	1.40	62	27410	18.161	ug/l	100
5) Bromomethane	1.63	94	13922	22.899	ug/l	96
6) Chloroethane	1.70	64	15936	18.651	ug/l	99
7) Trichlorofluoromethane	1.89	101	29573	18.624	ug/l	98
8) Diethyl Ether	2.10	74	13253	17.839	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.29	101	17616	18.549	ug/l	95
10) Methyl Iodide	2.41	142	10431	13.998	ug/l	97
11) Tert butyl alcohol	2.82	59	30428	105.448	ug/l	99
12) 1,1-Dichloroethene	2.29	96	16650	17.620	ug/l	93
13) Acrolein	2.19	56	20852	90.646	ug/l	98
14) Allyl chloride	2.59	41	40171	17.970	ug/l	100
15) Acrylonitrile	2.94	53	77805	97.119	ug/l	99
16) Acetone	2.32	43	85470	101.129	ug/l	100
17) Carbon Disulfide	2.48	76	62279	18.295	ug/l	100
18) Methyl Acetate	2.62	43	44197	20.173	ug/l	96
19) Methyl tert-butyl Ether	3.00	73	67057	18.720	ug/l	99
20) Methylene Chloride	2.70	84	22045	17.694	ug/l	99
21) trans-1,2-Dichloroethene	2.98	96	19206	18.052	ug/l	99
22) Diisopropyl ether	3.57	45	83621	19.236	ug/l	98
23) Vinyl Acetate	3.52	43	342978	95.653	ug/l	99
24) 1,1-Dichloroethane	3.45	63	42867	18.838	ug/l	99
25) 2-Butanone	4.26	43	116225	100.628	ug/l	98
26) 2,2-Dichloropropane	4.23	77	34268	19.006	ug/l	100
27) cis-1,2-Dichloroethene	4.22	96	22500	18.685	ug/l	99
28) Bromochloromethane	4.55	49	20671	19.983	ug/l	98
29) Tetrahydrofuran	4.64	42	74493	100.424	ug/l	98
30) Chloroform	4.67	83	38010	19.165	ug/l	94
31) Cyclohexane	5.00	56	42053	18.176	ug/l	96
32) 1,1,1-Trichloroethane	4.91	97	31453	19.095	ug/l	97
36) 1,1-Dichloropropene	5.14	75	30530	19.097	ug/l	97
37) Ethyl Acetate	4.38	43	39630	19.176	ug/l	99
38) Carbon Tetrachloride	5.13	117	24122	18.720	ug/l	98

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
 Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.41	83	35595	18.250	ug/l	97
40) Benzene	5.39	78	90438	19.207	ug/l	98
41) Methacrylonitrile	4.54	41	22215	19.628	ug/l	98
42) 1,2-Dichloroethane	5.40	62	31690	19.228	ug/l	97
43) Isopropyl Acetate	5.55	43	63607	19.459	ug/l	99
44) Trichloroethene	6.19	130	19494	18.620	ug/l	100
45) 1,2-Dichloropropane	6.43	63	26119	19.726	ug/l	97
46) Dibromomethane	6.56	93	15123	19.250	ug/l	99
47) Bromodichloromethane	6.76	83	29045	18.999	ug/l	97
48) Methyl methacrylate	6.62	41	31667	19.480	ug/l	99
49) 1,4-Dioxane	6.61	88	11689	455.404	ug/l	99
51) 4-Methyl-2-Pentanone	7.46	43	200587	97.294	ug/l	99
52) Toluene	7.64	92	52251	18.856	ug/l	100
53) t-1,3-Dichloropropene	7.88	75	35196	19.331	ug/l	99
54) cis-1,3-Dichloropropene	7.27	75	37134	18.799	ug/l	95
55) 1,1,2-Trichloroethane	8.07	97	21130	19.290	ug/l	99
56) Ethyl methacrylate	8.02	69	35055	18.688	ug/l	98
57) 1,3-Dichloropropane	8.24	76	38986	19.173	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.13	63	90402	94.093	ug/l	100
59) 2-Hexanone	8.36	43	159146	97.391	ug/l	99
60) Dibromochloromethane	8.48	129	20321	18.948	ug/l	100
61) 1,2-Dibromoethane	8.59	107	21936	19.097	ug/l	98
64) Tetrachloroethene	8.22	164	17065	18.557	ug/l	96
65) Chlorobenzene	9.12	112	53097	18.074	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.21	131	17895	19.075	ug/l	99
67) Ethyl Benzene	9.25	91	100016	18.519	ug/l	100
68) m/p-Xylenes	9.37	106	71504	36.386	ug/l	95
69) o-Xylene	9.78	106	34904	18.277	ug/l	98
70) Styrene	9.79	104	56934	18.015	ug/l	99
71) Bromoform	9.96	173	15036	18.841	ug/l #	100
73) Isopropylbenzene	10.16	105	92562	17.920	ug/l	99
74) N-amyl acetate	10.01	43	53863	18.078	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.46	83	37038	18.666	ug/l	98
76) 1,2,3-Trichloropropane	10.49	75	44984	26.170	ug/l	83
77) Bromobenzene	10.45	156	22148	18.334	ug/l	98
78) n-propylbenzene	10.58	91	117245	18.267	ug/l	100
79) 2-Chlorotoluene	10.66	91	68106	18.421	ug/l	100
80) 1,3,5-Trimethylbenzene	10.77	105	78793	18.428	ug/l	98
81) trans-1,4-Dichloro-2-buten	10.49	75	44984	64.193	ug/l #	100
82) 4-Chlorotoluene	10.77	91	77685	17.731	ug/l	99
83) tert-Butylbenzene	11.10	119	75271	18.264	ug/l	99
84) 1,2,4-Trimethylbenzene	11.15	105	80055	18.167	ug/l	100
85) sec-Butylbenzene	11.32	105	97988	18.508	ug/l	99
86) p-Isopropyltoluene	11.48	119	80051	17.799	ug/l	99
87) 1,3-Dichlorobenzene	11.41	146	40161	17.606	ug/l	100
88) 1,4-Dichlorobenzene	11.50	146	41725	17.679	ug/l	99
89) n-Butylbenzene	11.89	91	78646	17.279	ug/l	100
90) Hexachloroethane	12.14	117	12962	19.068	ug/l	95
91) 1,2-Dichlorobenzene	11.88	146	39574	17.344	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	12.66	75	8626	20.080	ug/l	92

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Quant Title : SW846 8260
QLast Update : Fri Dec 07 00:39:42 2018
Response via : Initial Calibration

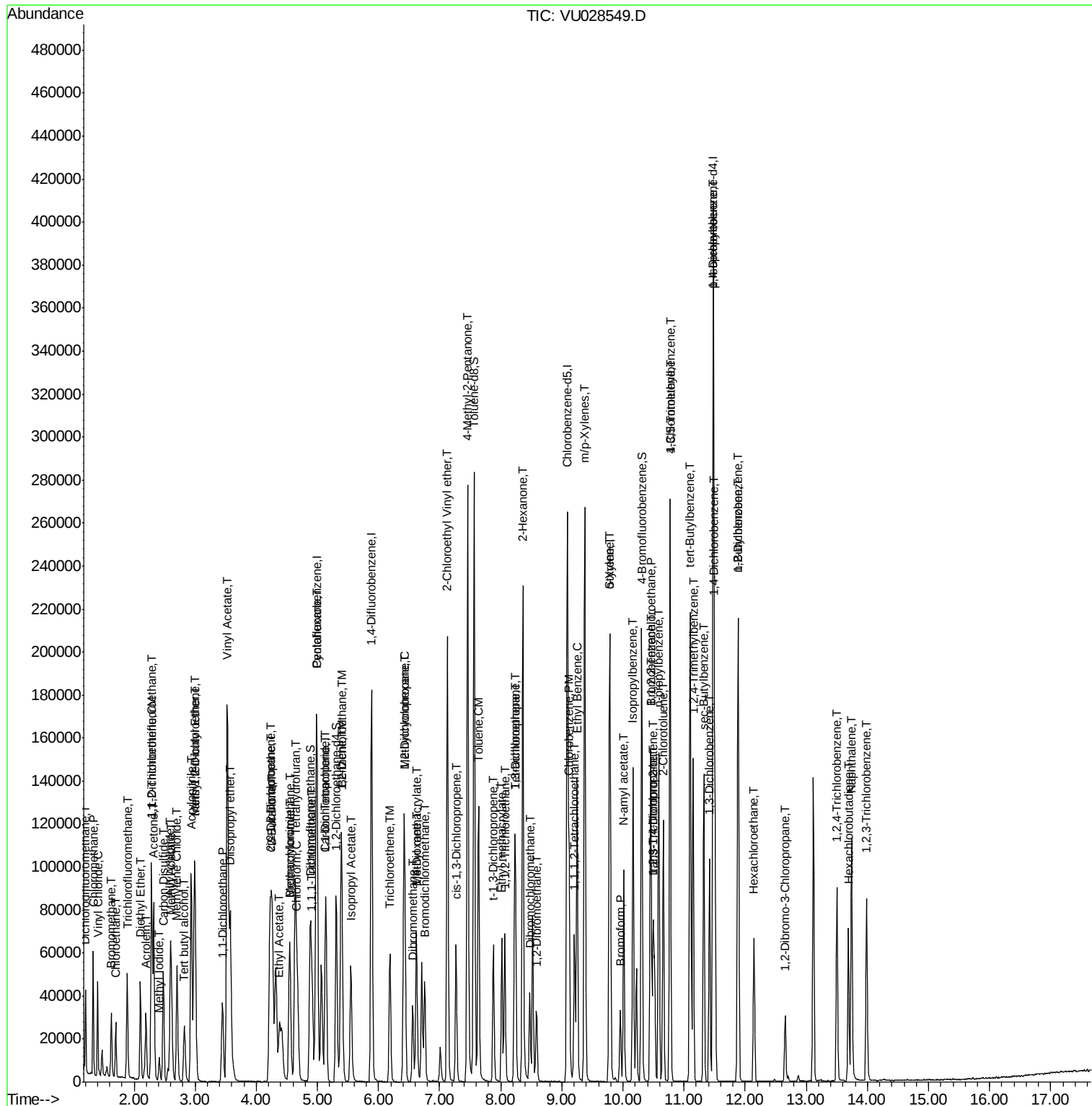
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.50	180	27387	18.016	ug/l	96
94) Hexachlorobutadiene	13.69	225	13169	17.619	ug/l	99
95) Naphthalene	13.74	128	90280	16.488	ug/l	99
96) 1,2,3-Trichlorobenzene	13.99	180	26832	17.291	ug/l	99

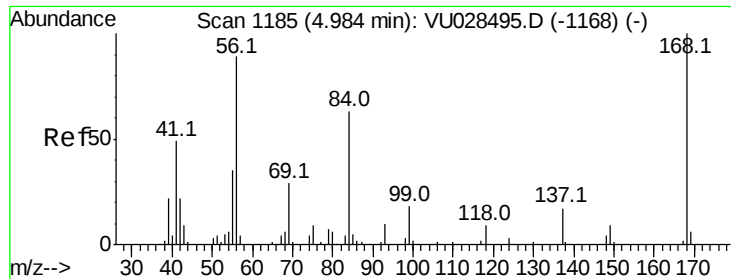
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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 Quant Title : SW846 8260
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 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

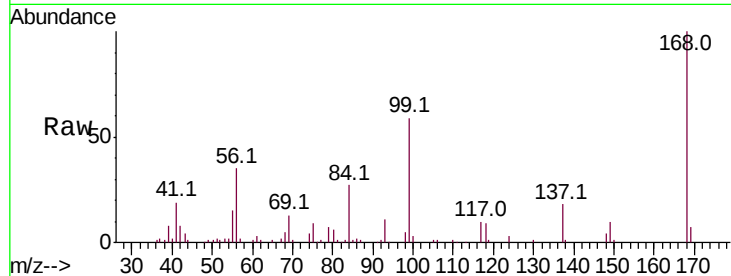
Instrument :
MSVOA_U
ClientSampleId :
VU1211WBS01

Tot Ion:168 Resp: 84870

Ion Ratio Lower Upper

168 100

99 58.0 46.6 69.8



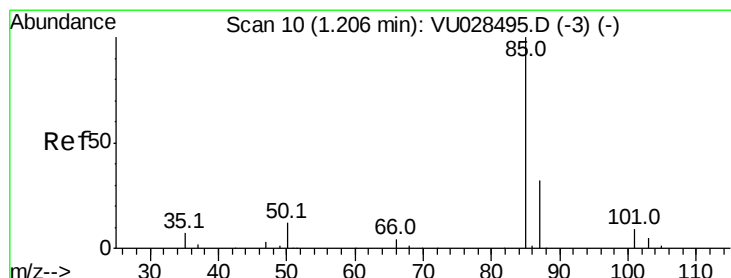
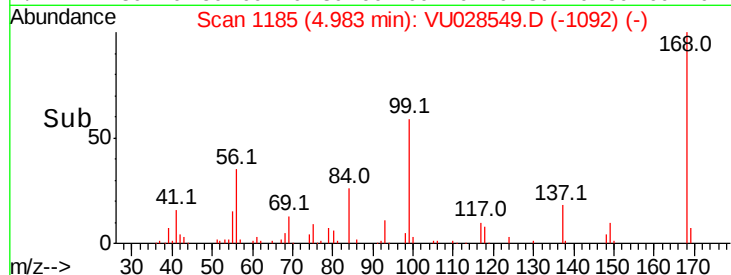
Abundance Ion 167.90 (167.60 to 168.60): VU028495.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU028495.D (-1168) (-)

4.98

4.90 4.95 5.00 5.05 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 18.449 ug/l

RT: 1.21 min Scan# 10

Delta R.T. -0.00 min

Lab File: VU028549.D

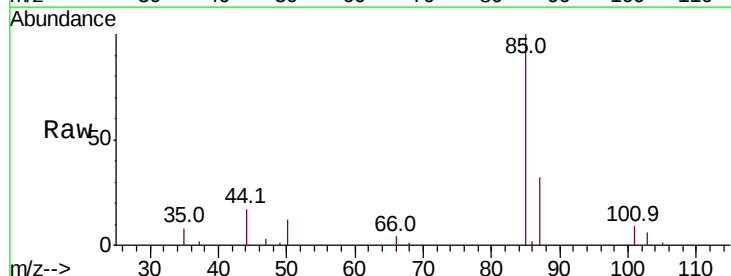
Acq: 10 Dec 2018 14:27

Tgt Ion: 85 Resp: 20987

Ion Ratio Lower Upper

85 100

87 32.4 15.9 47.6



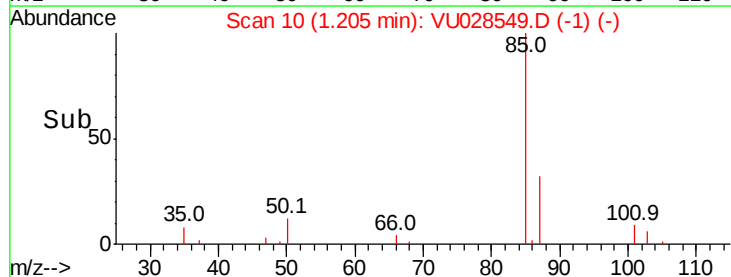
Abundance Ion 84.90 (84.60 to 85.60): VU028495.D (-3) (-)

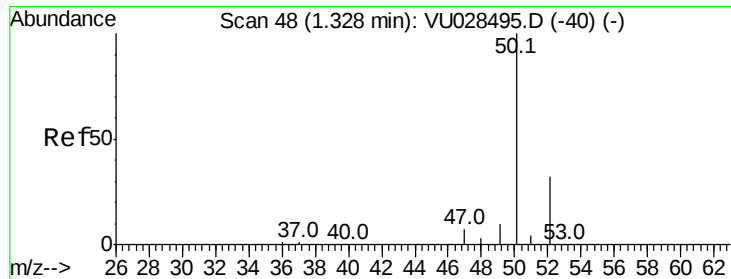
Ion 86.90 (86.60 to 87.60): VU028495.D (-3) (-)

1.21

1.20 1.25

Time-->





#3

Chloromethane

Concen: 17.741 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

Instrument :

MSVOA_U

ClientSampleId :

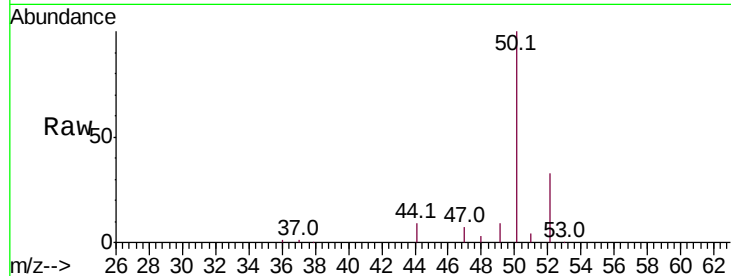
VU1211WBS01

Tot Ion: 50 Resp: 37104

Ion Ratio Lower Upper

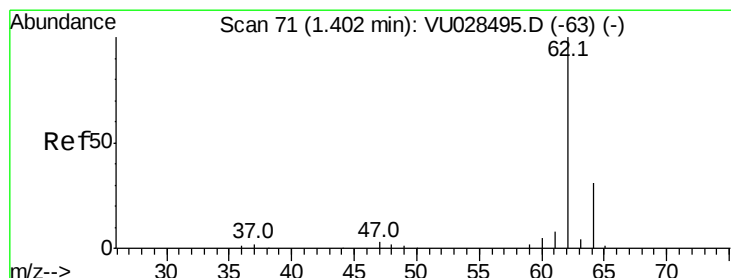
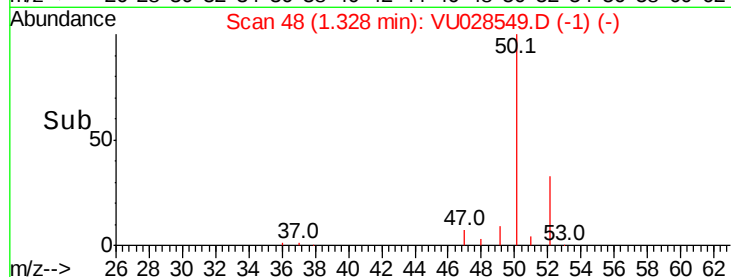
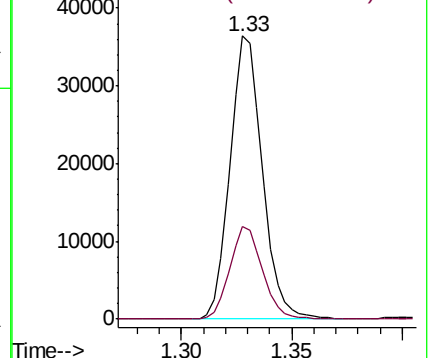
50 100

52 32.6 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VU0

Ion 51.90 (51.60 to 52.60): VU0



#4

Vinyl Chloride

Concen: 18.161 ug/l

RT: 1.40 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU028549.D

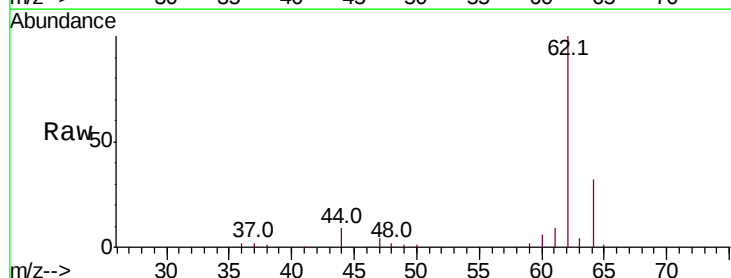
Acq: 10 Dec 2018 14:27

Tgt Ion: 62 Resp: 27410

Ion Ratio Lower Upper

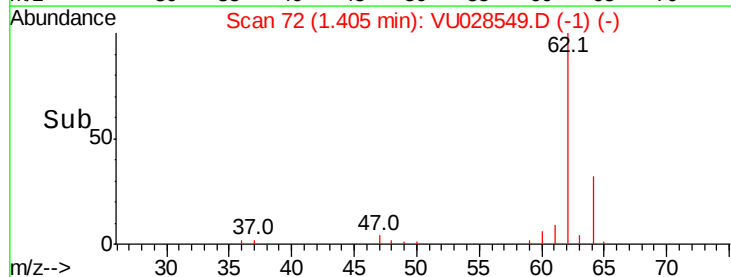
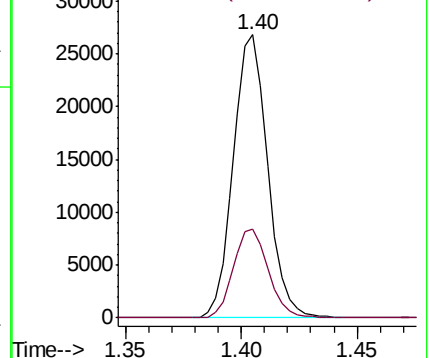
62 100

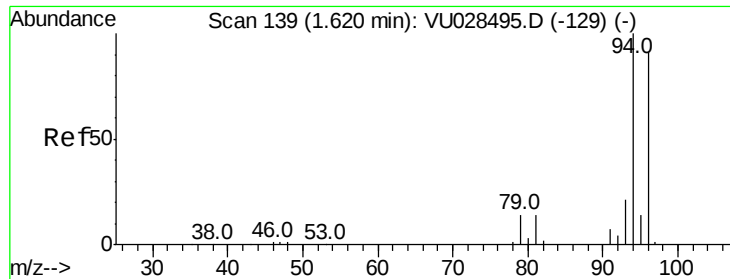
64 31.5 25.1 37.7



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0

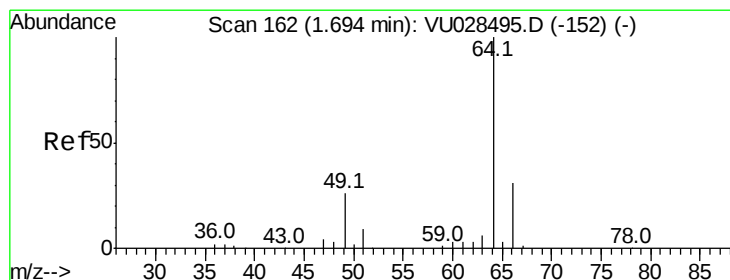
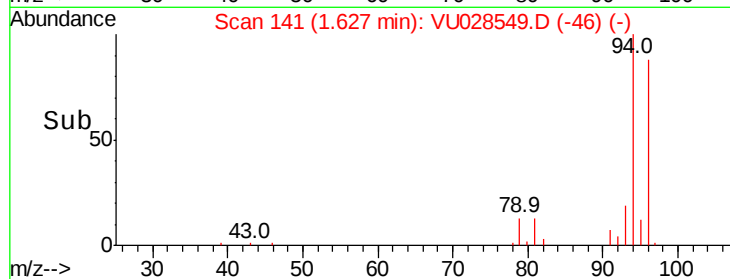
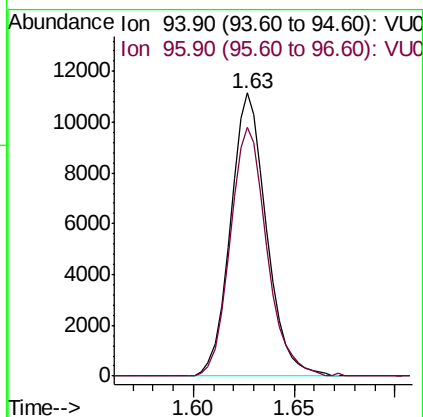
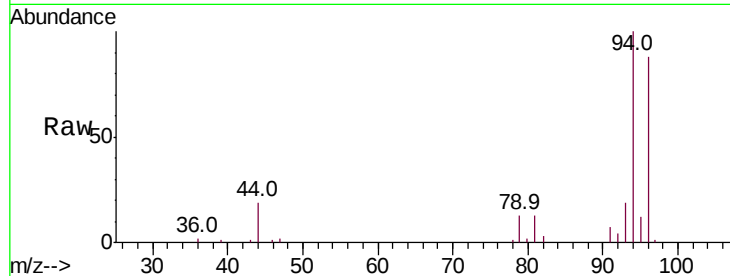




#5
Bromomethane
Concen: 22.899 ug/l
RT: 1.63 min Scan# 141
Delta R.T. 0.01 min
Lab File: VU028549.D
Acq: 10 Dec 2018 14:27

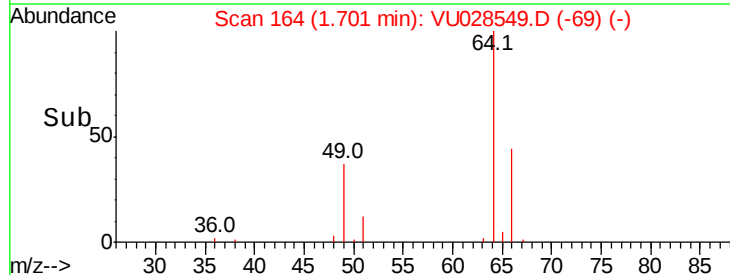
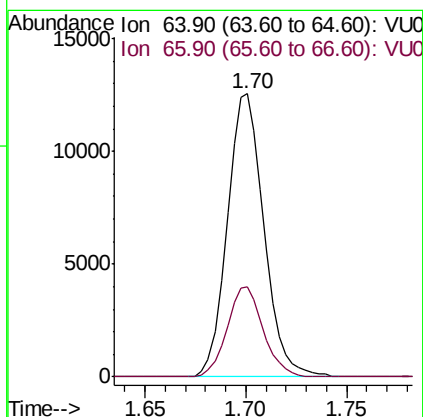
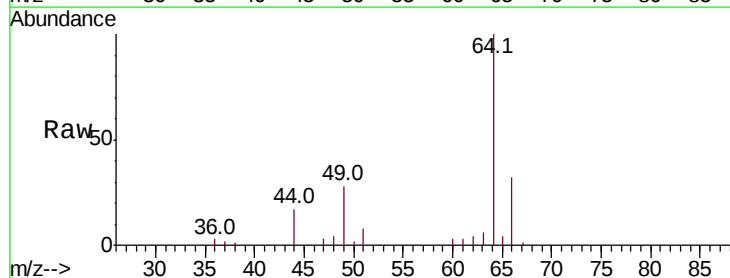
Instrument :
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ClientSampleId :
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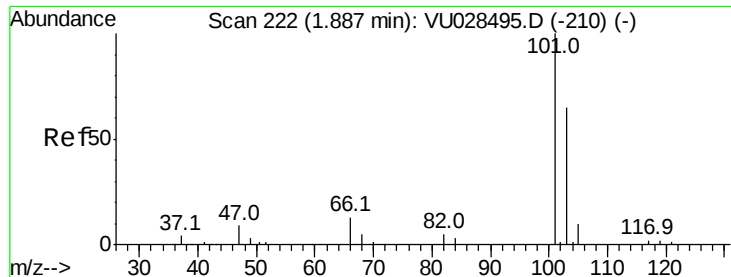
Tot Ion: 94 Resp: 13922
Ion Ratio Lower Upper
94 100
96 87.9 73.2 109.8



#6
Chloroethane
Concen: 18.651 ug/l
RT: 1.70 min Scan# 164
Delta R.T. 0.01 min
Lab File: VU028549.D
Acq: 10 Dec 2018 14:27

Tgt Ion: 64 Resp: 15936
Ion Ratio Lower Upper
64 100
66 31.7 25.0 37.6



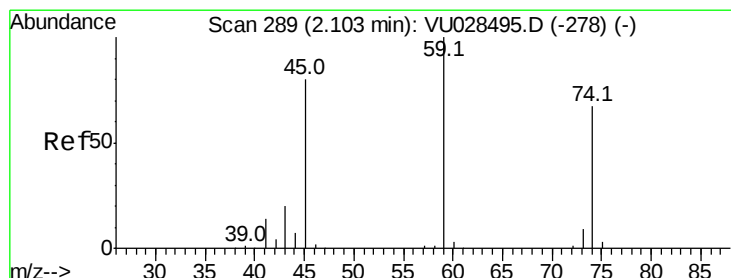
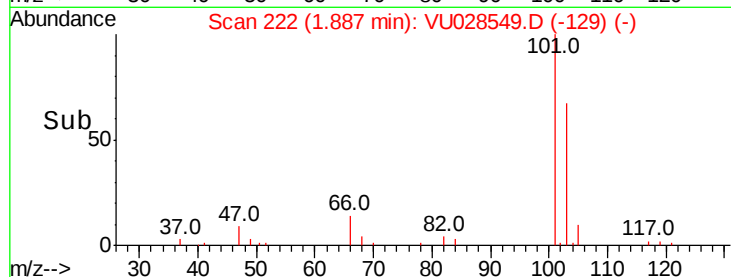
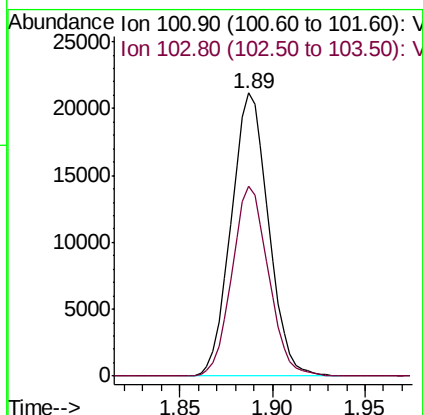
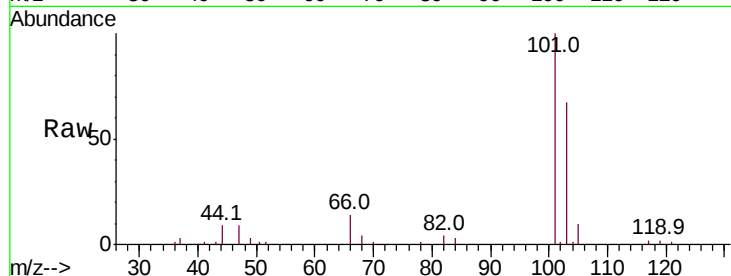


#7

Trichlorofluoromethane
Concen: 18.624 ug/l
RT: 1.89 min Scan# 222
Delta R.T. -0.00 min
Lab File: VU028549.D
Acq: 10 Dec 2018 14:27

Instrument :
MSVOA_U
ClientSampleId :
VU1211WBS01

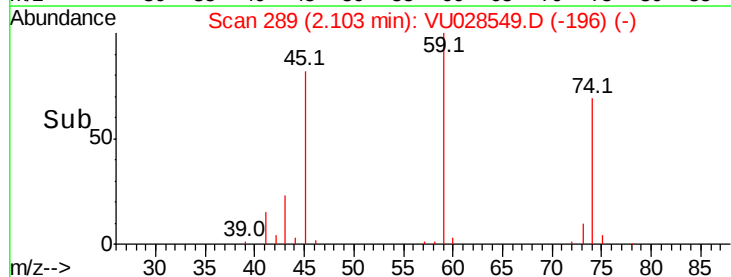
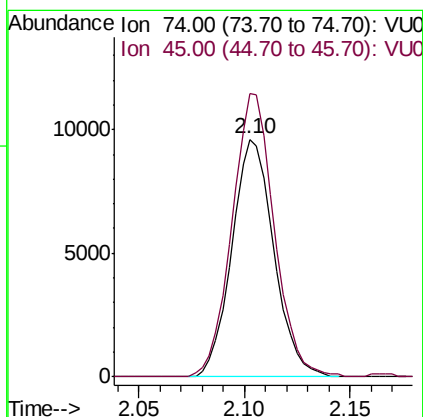
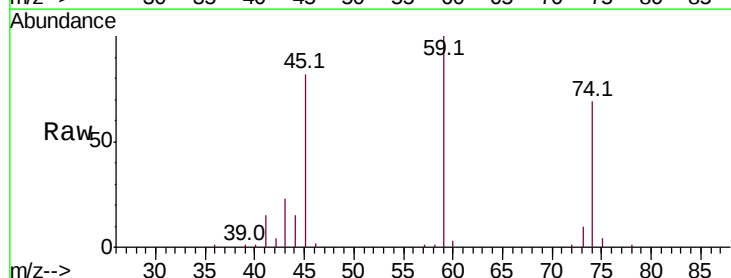
Tot Ion:101 Resp: 29573
Ion Ratio Lower Upper
101 100
103 67.3 52.3 78.5

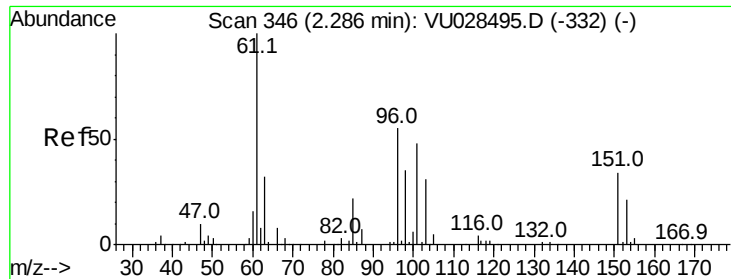


#8

Diethyl Ether
Concen: 17.839 ug/l
RT: 2.10 min Scan# 289
Delta R.T. -0.00 min
Lab File: VU028549.D
Acq: 10 Dec 2018 14:27

Tgt Ion: 74 Resp: 13253
Ion Ratio Lower Upper
74 100
45 120.4 59.7 179.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.549 ug/l

RT: 2.29 min Scan# 347

Delta R.T. 0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

Instrument :

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ClientSampleId :

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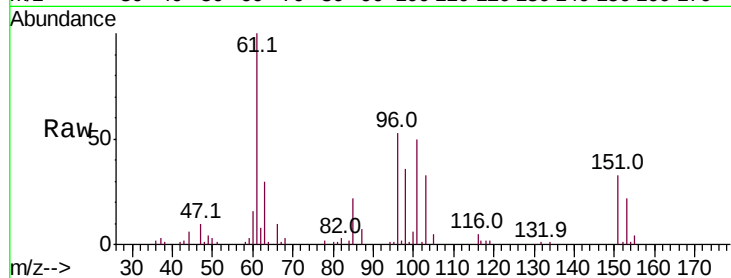
Tot Ion:101 Resp: 17616

Ion Ratio Lower Upper

101 100

85 44.8 36.4 54.6

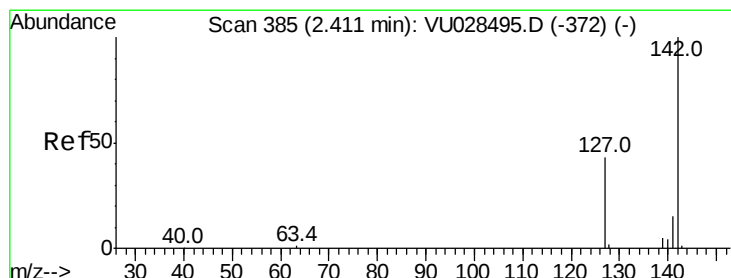
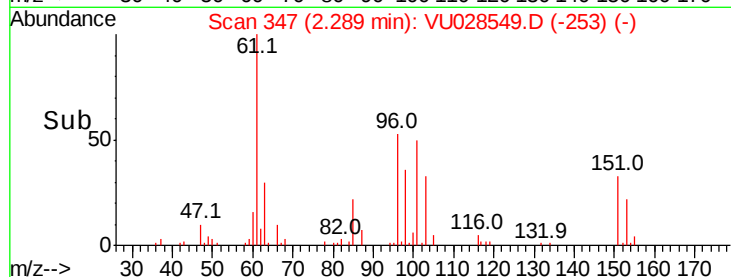
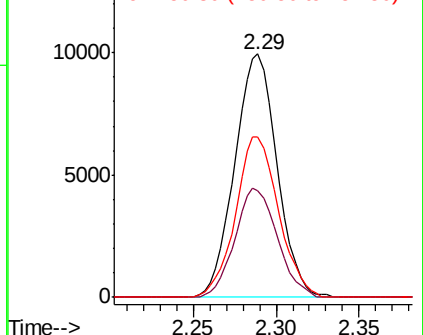
151 67.1 58.2 87.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VU0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 13.998 ug/l

RT: 2.41 min Scan# 385

Delta R.T. -0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

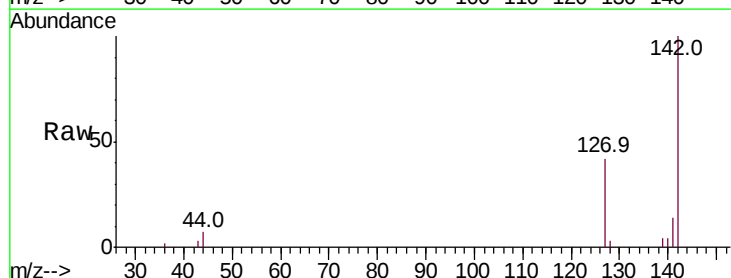
Tgt Ion:142 Resp: 10431

Ion Ratio Lower Upper

142 100

127 39.9 33.5 50.3

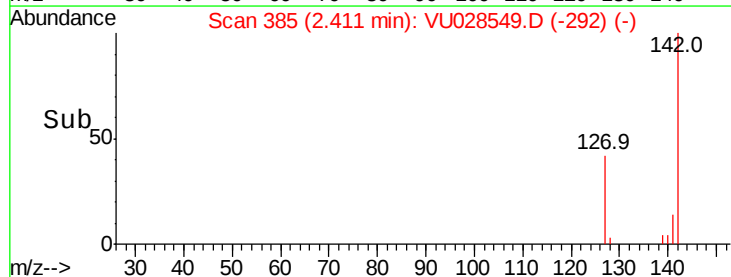
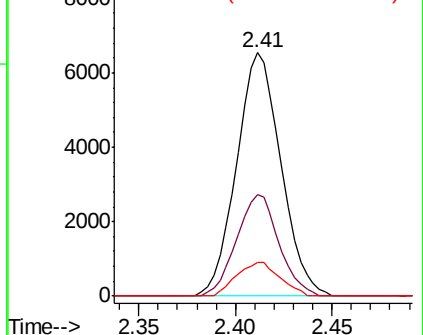
141 13.5 11.2 16.8

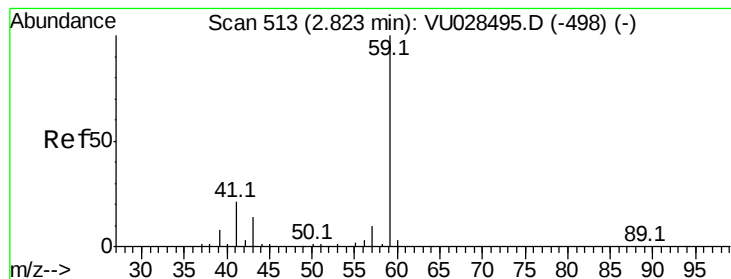


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



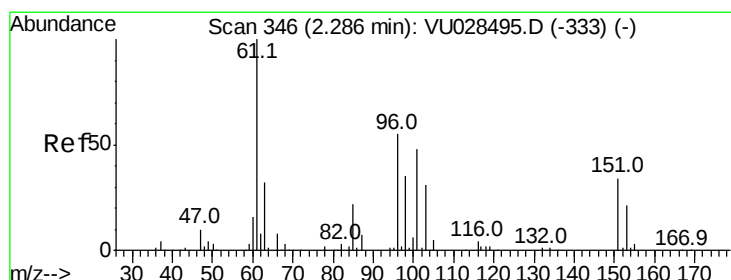
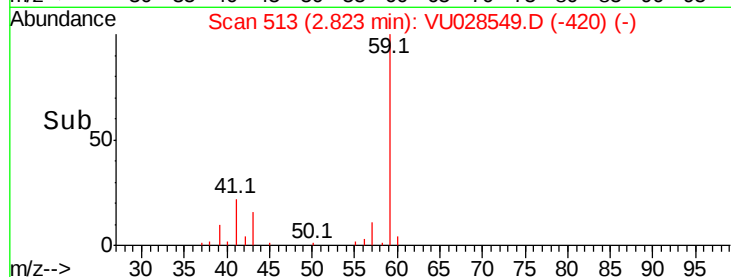
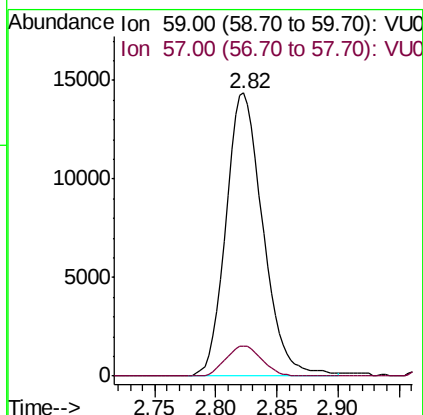
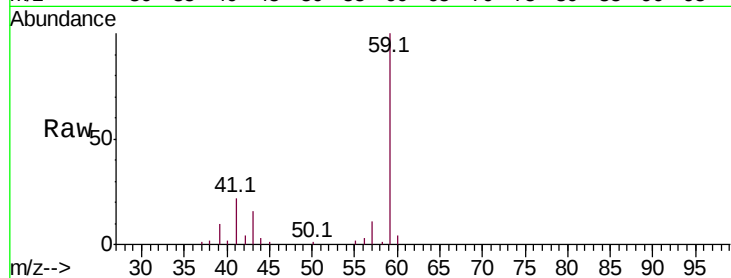


#11

Tert butyl alcohol
 Concen: 105.448 ug/l
 RT: 2.82 min Scan# 513
 Delta R.T. -0.00 min
 Lab File: VU028549.D
 Acq: 10 Dec 2018 14:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1211WBS01

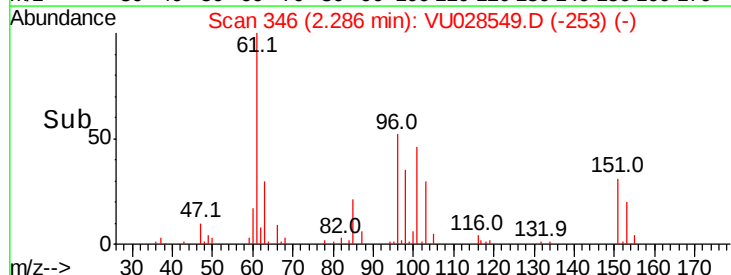
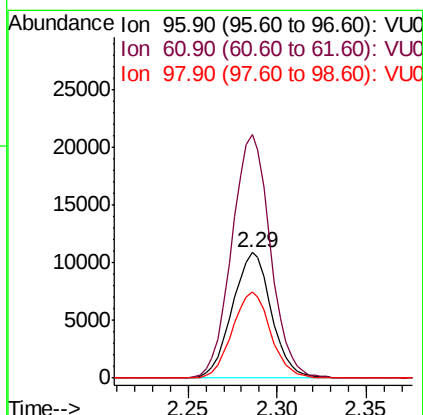
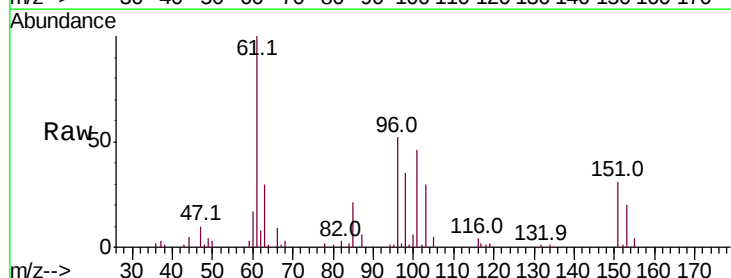
Tot Ion: 59 Resp: 30428
 Ion Ratio Lower Upper
 59 100
 57 10.3 8.0 12.0

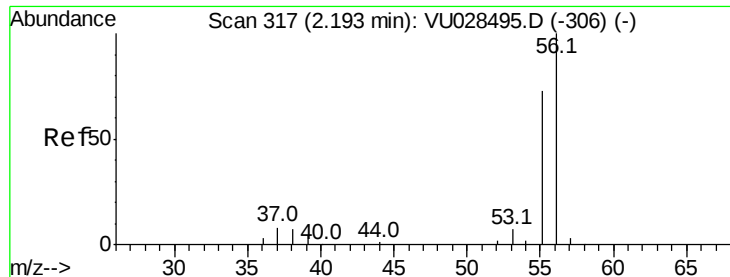


#12

1,1-Dichloroethene
 Concen: 17.620 ug/l
 RT: 2.29 min Scan# 346
 Delta R.T. -0.00 min
 Lab File: VU028549.D
 Acq: 10 Dec 2018 14:27

Tgt Ion: 96 Resp: 16650
 Ion Ratio Lower Upper
 96 100
 61 193.9 146.4 219.6
 98 68.3 51.8 77.8





#13

Acrolein

Concen: 90.646 ug/l

RT: 2.19 min Scan# 317

Delta R.T. -0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

Instrument :

MSVOA_U

ClientSampleId :

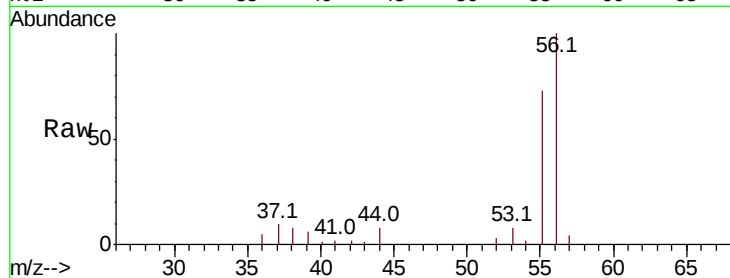
VU1211WBS01

Tot Ion: 56 Resp: 20852

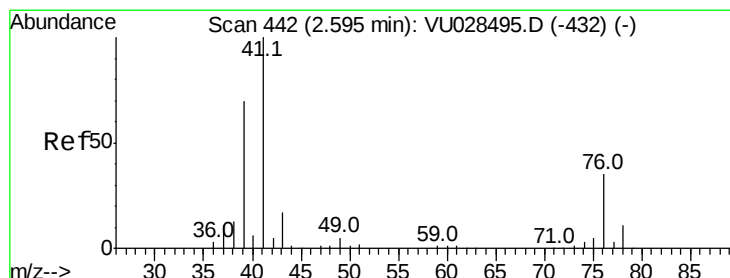
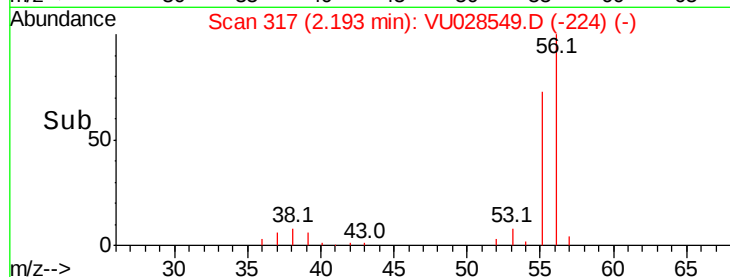
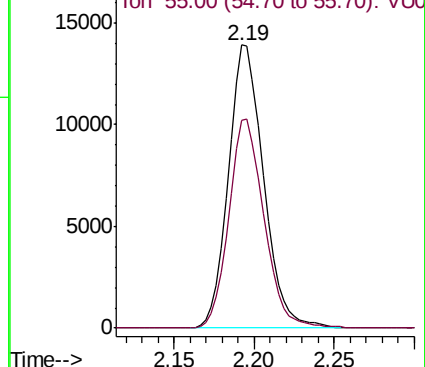
Ion Ratio Lower Upper

56 100

55 74.0 57.5 86.3



Abundance Ion 56.00 (55.70 to 56.70): VU028495.D (-306) (-)



#14

Allyl chloride

Concen: 17.970 ug/l

RT: 2.59 min Scan# 442

Delta R.T. -0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

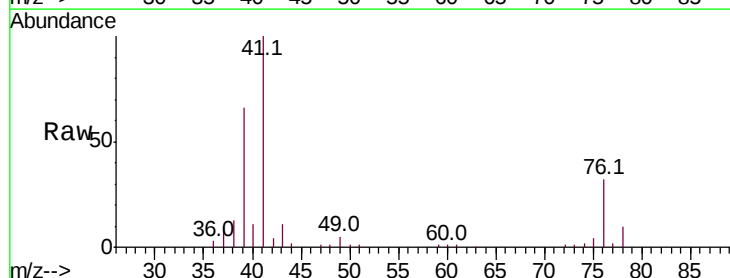
Tgt Ion: 41 Resp: 40171

Ion Ratio Lower Upper

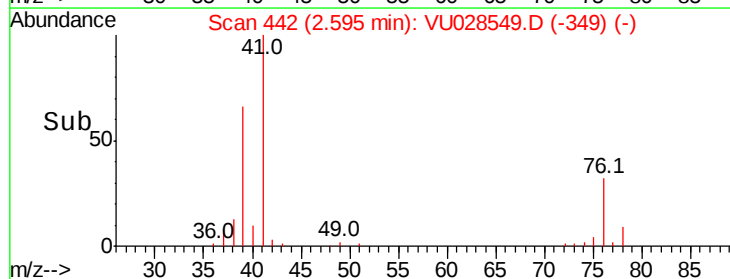
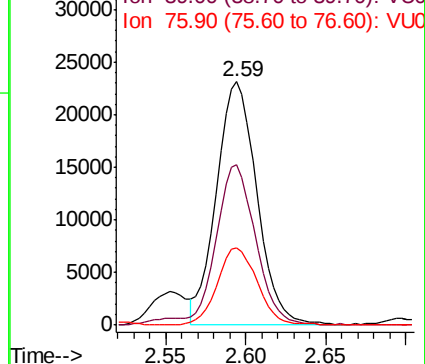
41 100

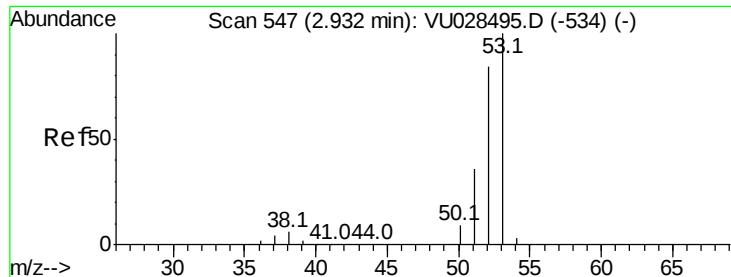
39 63.6 50.8 76.2

76 31.3 24.8 37.2



Abundance Ion 41.00 (40.70 to 41.70): VU028495.D (-432) (-)





#15

Acrylonitrile

Concen: 97.119 ug/l

RT: 2.94 min Scan# 548

Delta R.T. 0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

Instrument :

MSVOA_U

ClientSampleId :

VU1211WBS01

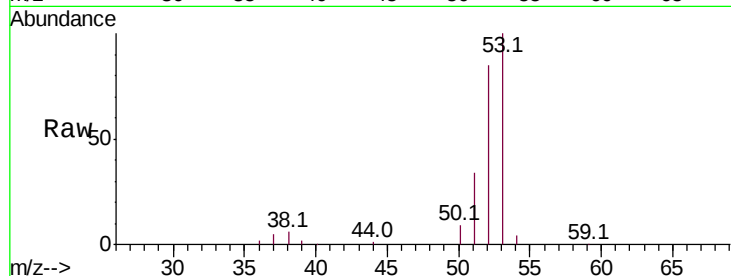
Tot Ion: 53 Resp: 77805

Ion Ratio Lower Upper

53 100

52 83.3 66.1 99.1

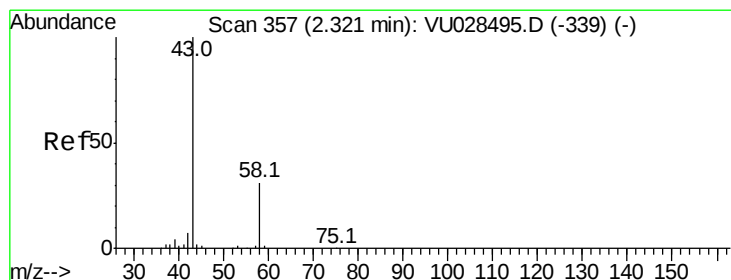
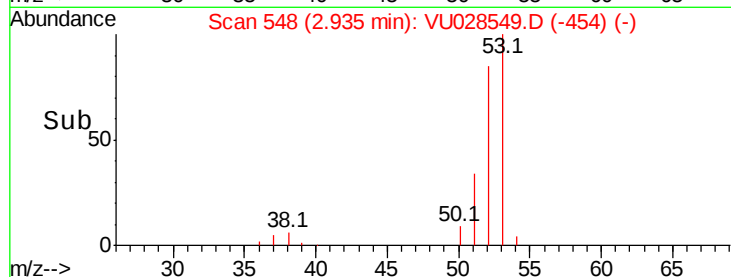
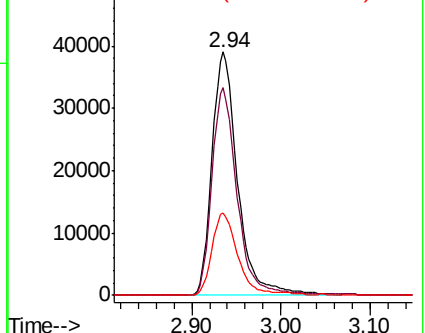
51 33.6 28.1 42.1



Abundance Ion 53.00 (52.70 to 53.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

Ion 51.00 (50.70 to 51.70): VU0



#16

Acetone

Concen: 101.129 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028549.D

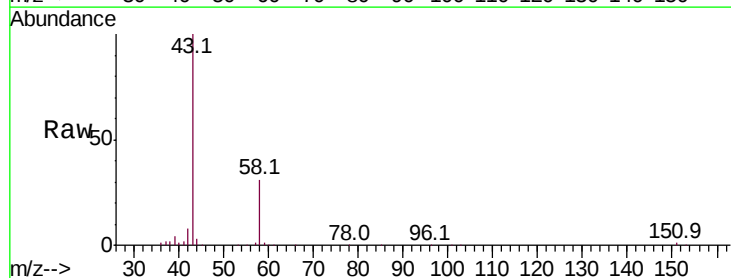
Acq: 10 Dec 2018 14:27

Tgt Ion: 43 Resp: 85470

Ion Ratio Lower Upper

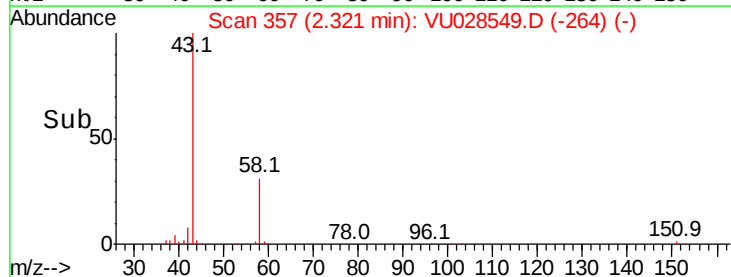
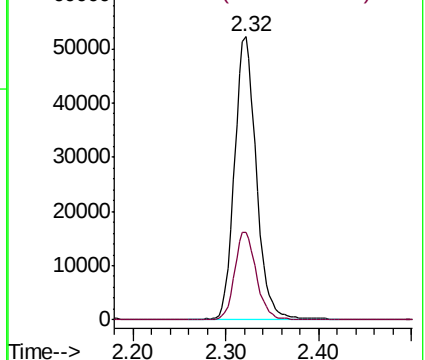
43 100

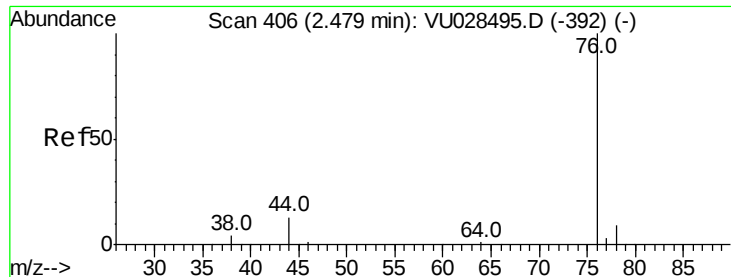
58 30.8 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

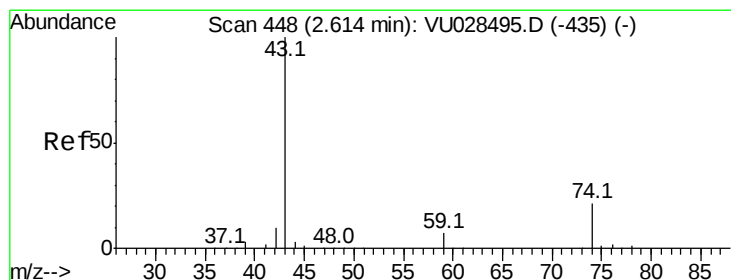
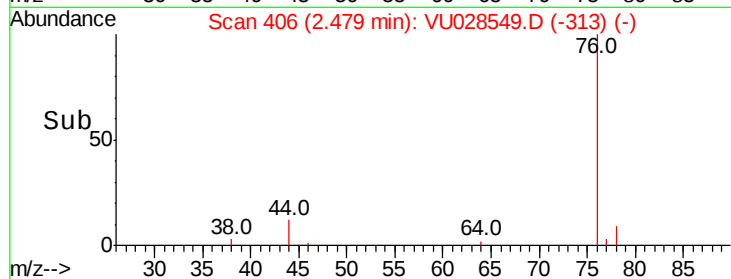
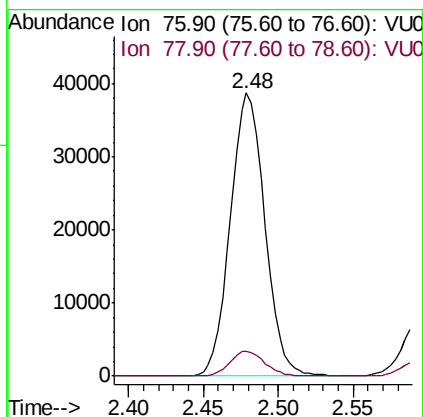
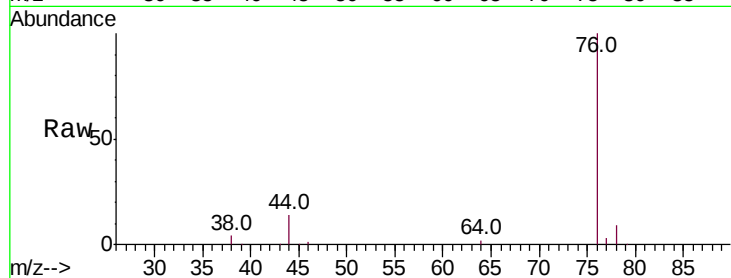




#17
Carbon Disulfide
Concen: 18.295 ug/l
RT: 2.48 min Scan# 406
Delta R.T. -0.00 min
Lab File: VU028549.D
Acq: 10 Dec 2018 14:27

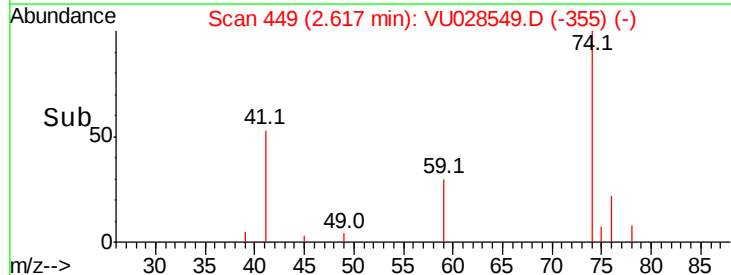
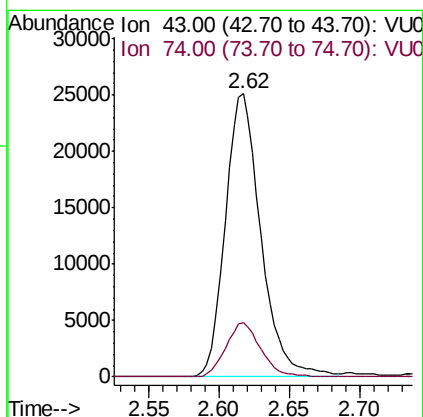
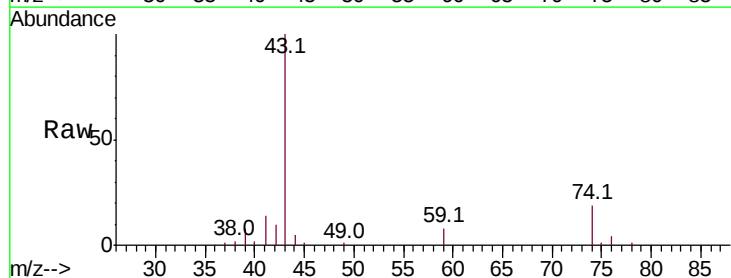
Instrument :
MSVOA_U
ClientSampleId :
VU1211WBS01

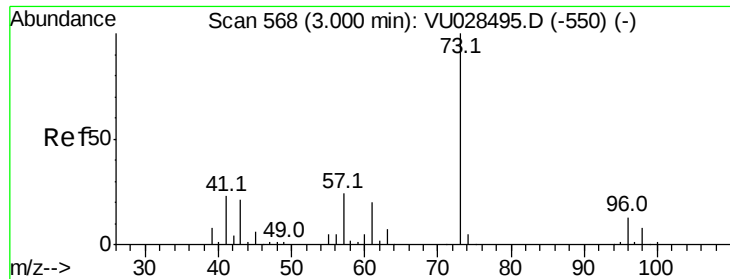
Tot Ion: 76 Resp: 62279
Ion Ratio Lower Upper
76 100
78 8.8 7.2 10.8



#18
Methyl Acetate
Concen: 20.173 ug/l
RT: 2.62 min Scan# 449
Delta R.T. 0.00 min
Lab File: VU028549.D
Acq: 10 Dec 2018 14:27

Tgt Ion: 43 Resp: 44197
Ion Ratio Lower Upper
43 100
74 18.7 16.4 24.6

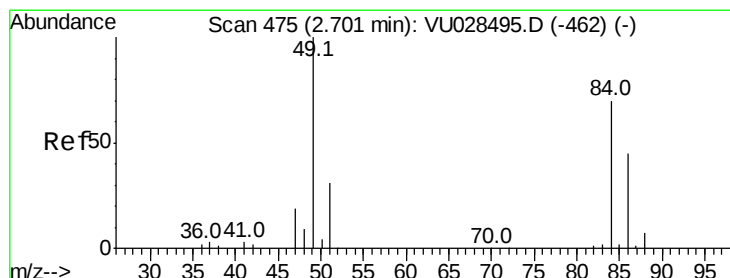
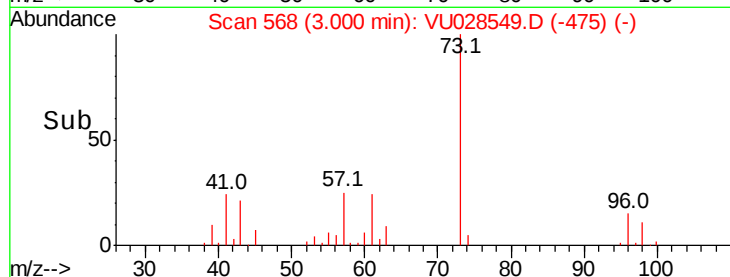
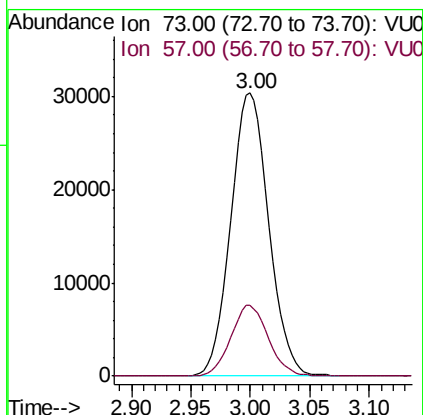
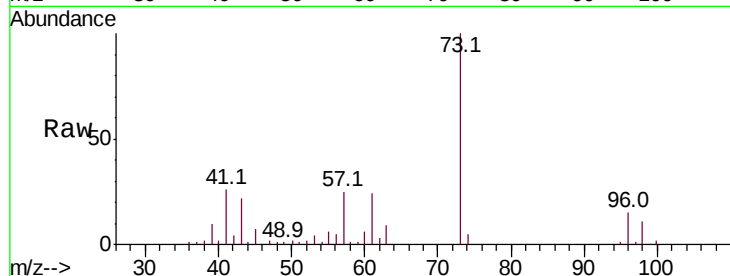




#19
Methyl tert-butyl Ether
Concen: 18.720 ug/l
RT: 3.00 min Scan# 568
Delta R.T. -0.00 min
Lab File: VU028549.D
Acq: 10 Dec 2018 14:27

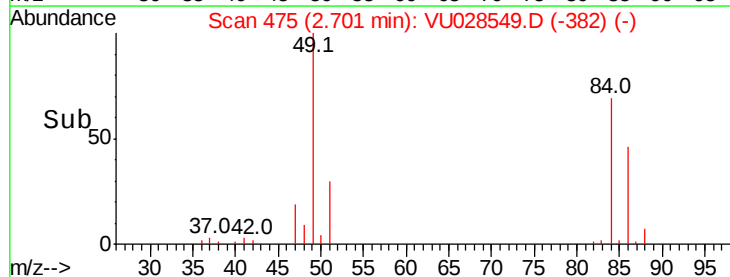
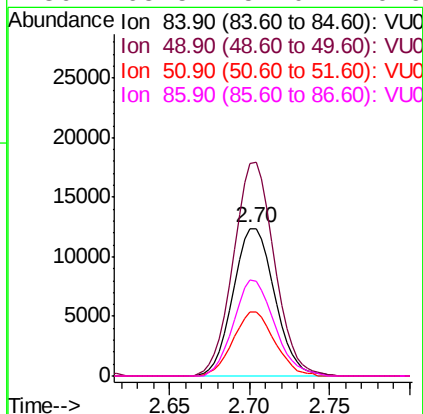
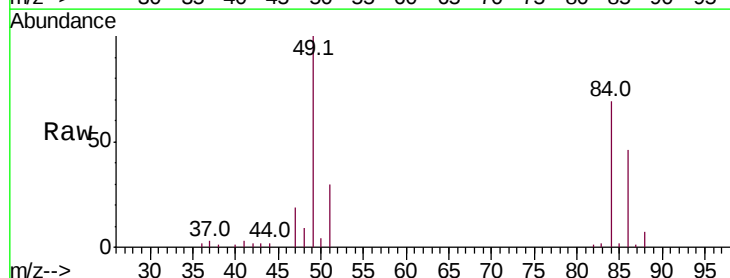
Instrument :
MSVOA_U
ClientSampleId :
VU1211WBS01

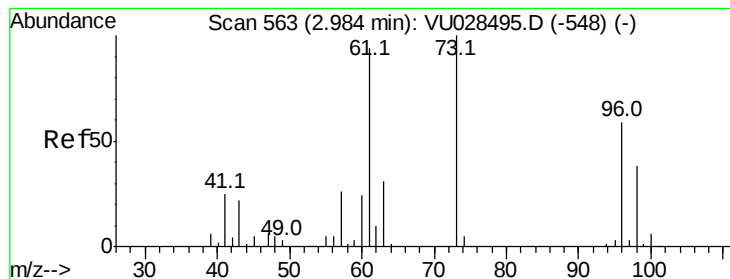
Tot Ion: 73 Resp: 67057
Ion Ratio Lower Upper
73 100
57 24.8 19.4 29.2



#20
Methylene Chloride
Concen: 17.694 ug/l
RT: 2.70 min Scan# 475
Delta R.T. -0.00 min
Lab File: VU028549.D
Acq: 10 Dec 2018 14:27

Tgt Ion: 84 Resp: 22045
Ion Ratio Lower Upper
84 100
49 143.9 114.0 171.0
51 43.1 35.1 52.7
86 65.5 51.0 76.6





#21

trans-1,2-Dichloroethene

Concen: 18.052 ug/l

RT: 2.98 min Scan# 563

Delta R.T. -0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

Instrument :

MSVOA_U

ClientSampleId :

VU1211WBS01

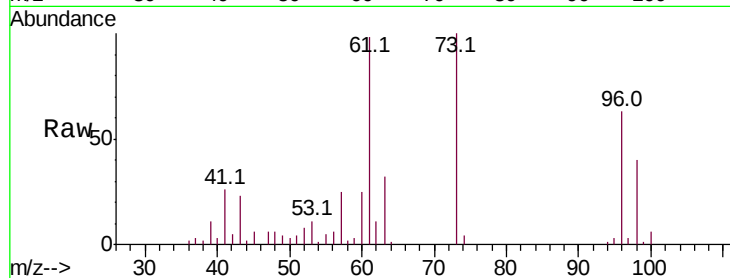
Tot Ion: 96 Resp: 19206

Ion Ratio Lower Upper

96 100

61 156.7 127.0 190.4

98 63.8 51.9 77.9

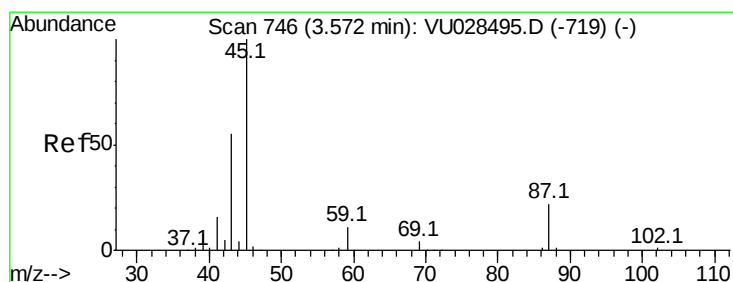
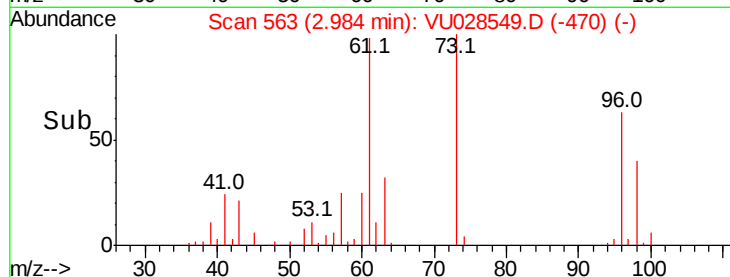
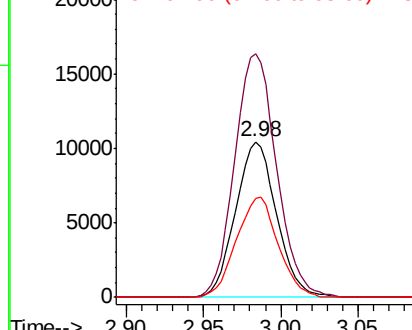


Abundance

Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0



#22

Diisopropyl ether

Concen: 19.236 ug/l

RT: 3.57 min Scan# 746

Delta R.T. -0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

Tgt Ion: 45 Resp: 83621

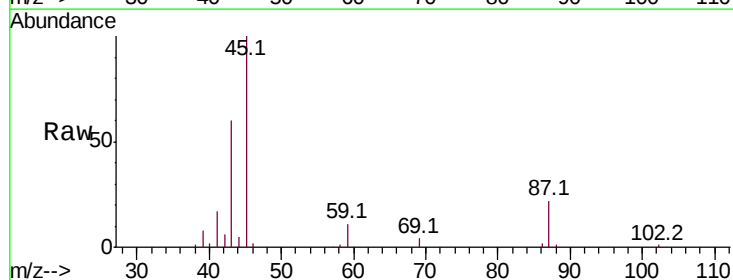
Ion Ratio Lower Upper

45 100

43 58.6 45.3 67.9

87 22.4 17.6 26.4

59 10.6 8.8 13.2



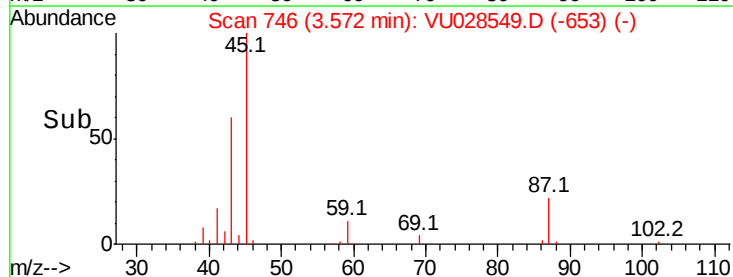
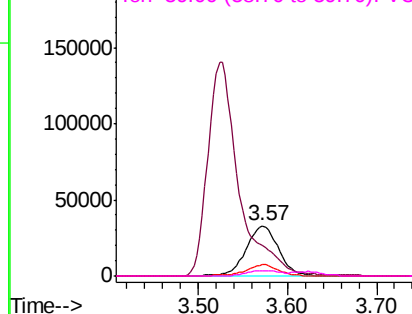
Abundance

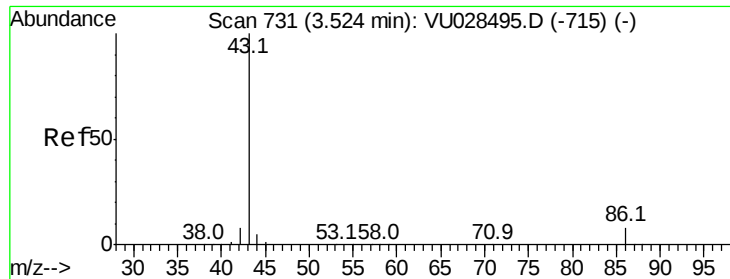
Ion 45.00 (44.70 to 45.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

Ion 59.00 (58.70 to 59.70): VU0





#23

Vinyl Acetate

Concen: 95.653 ug/l

RT: 3.52 min Scan# 731

Delta R.T. -0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

Instrument :

MSVOA_U

ClientSampleId :

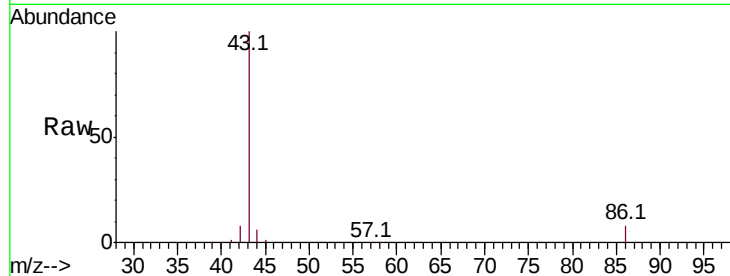
VU1211WBS01

Tot Ion: 43 Resp: 342978

Ion Ratio Lower Upper

43 100

86 8.2 6.8 10.2



Abundance Ion 43.00 (42.70 to 43.70): VU028495.D (-715) (-)

Ion 86.00 (85.70 to 86.70): VU028495.D (-715) (-)

3.52

150000

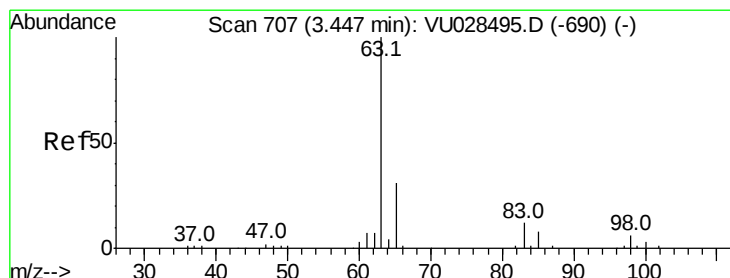
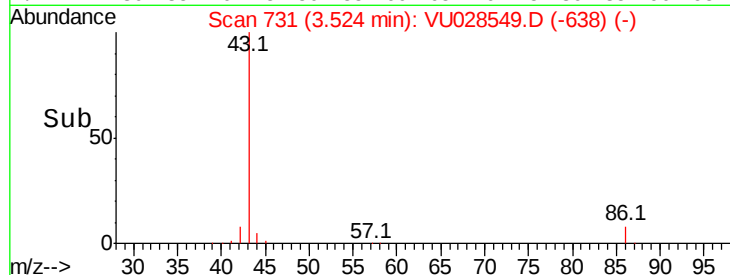
100000

50000

0

3.40 3.50 3.60 3.70

Time-->



#24

1,1-Dichloroethane

Concen: 18.838 ug/l

RT: 3.45 min Scan# 707

Delta R.T. -0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

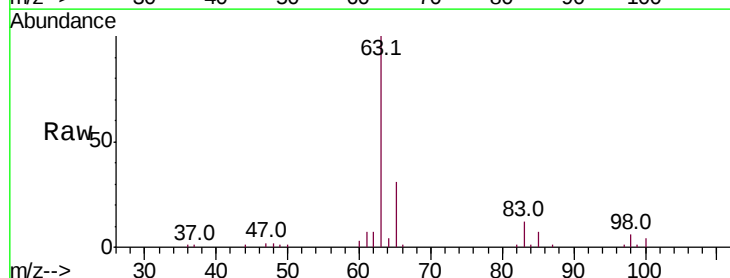
Tgt Ion: 63 Resp: 42867

Ion Ratio Lower Upper

63 100

98 5.7 3.0 9.2

100 3.7 1.7 5.1



Abundance Ion 62.90 (62.60 to 63.60): VU028495.D (-690) (-)

Ion 97.90 (97.60 to 98.60): VU028495.D (-690) (-)

Ion 99.90 (99.60 to 100.60): VU028495.D (-690) (-)

3.45

25000

20000

15000

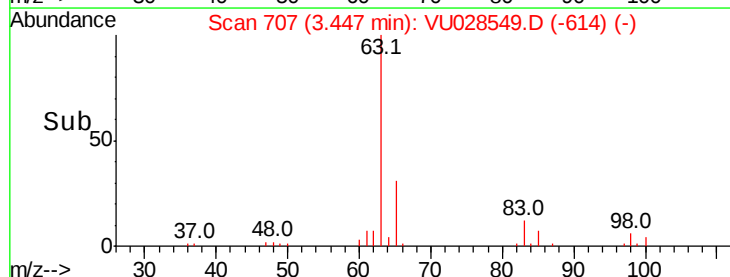
10000

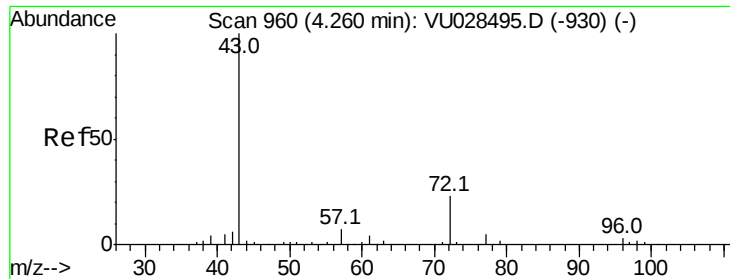
5000

0

3.35 3.40 3.45 3.50 3.55

Time-->





#25

2-Butanone

Concen: 100.628 ug/l

RT: 4.26 min Scan# 960

Delta R.T. -0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

Instrument :

MSVOA_U

ClientSampleId :

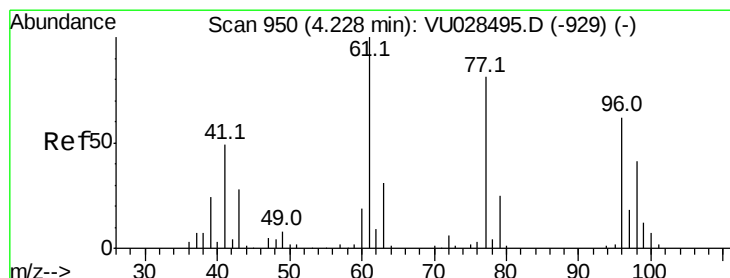
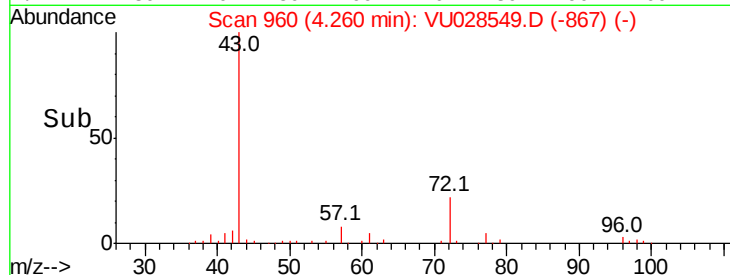
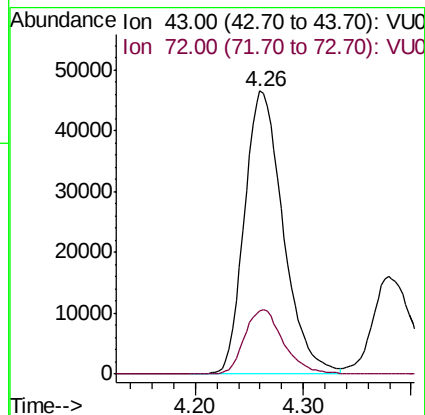
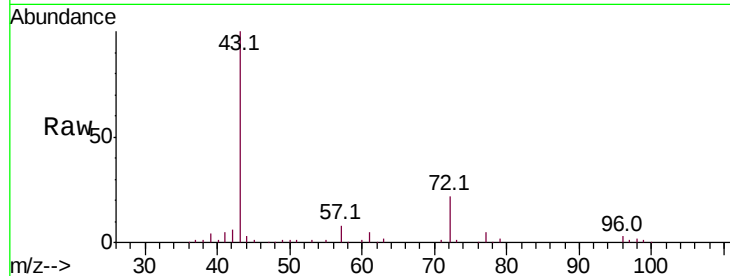
VU1211WBS01

Tot Ion: 43 Resp: 116225

Ion Ratio Lower Upper

43 100

72 22.4 18.6 28.0



#26

2,2-Dichloropropane

Concen: 19.006 ug/l

RT: 4.23 min Scan# 950

Delta R.T. -0.00 min

Lab File: VU028549.D

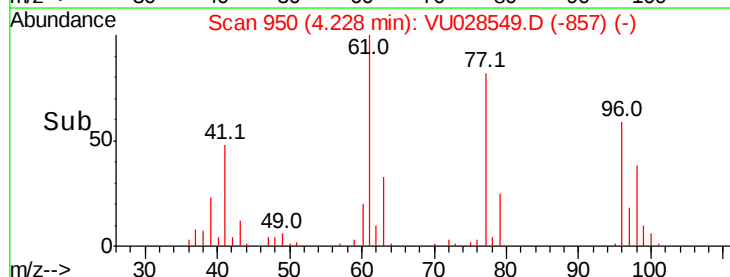
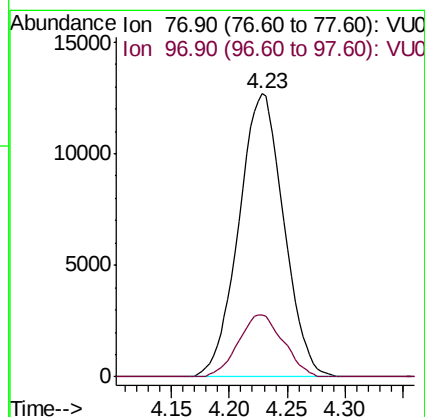
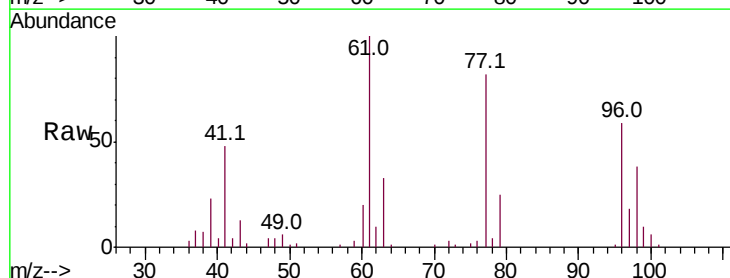
Acq: 10 Dec 2018 14:27

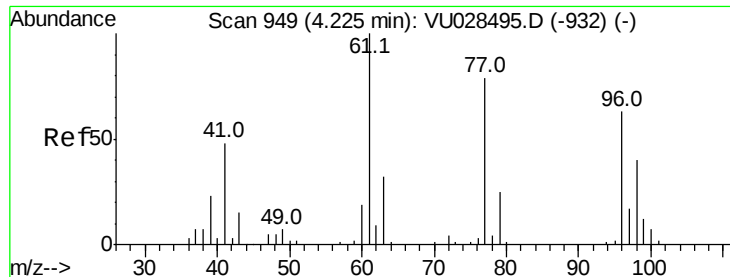
Tgt Ion: 77 Resp: 34268

Ion Ratio Lower Upper

77 100

97 21.8 11.0 33.0



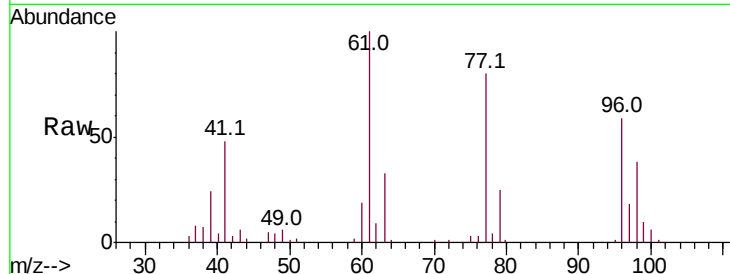


#27

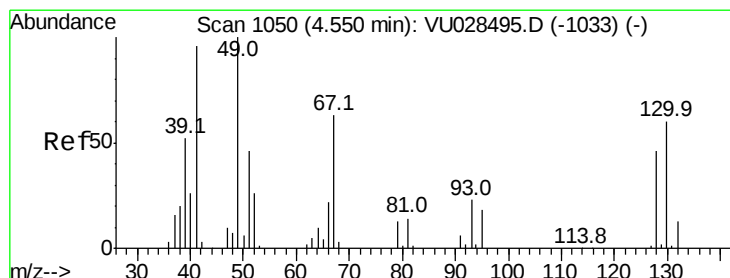
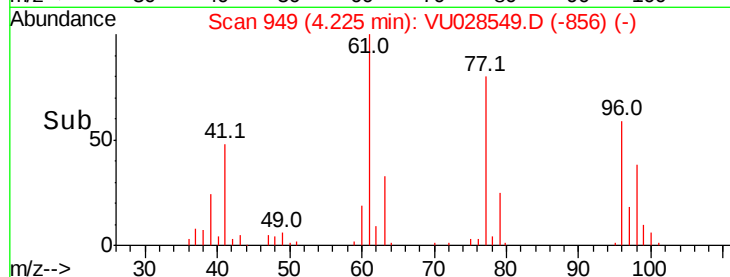
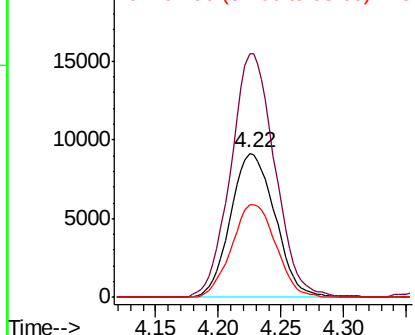
cis-1,2-Dichloroethene
Concen: 18.685 ug/l
RT: 4.22 min Scan# 949
Delta R.T. -0.00 min
Lab File: VU028549.D
Acq: 10 Dec 2018 14:27

Instrument :
MSVOA_U
ClientSampleId :
VU1211WBS01

Tot Ion: 96 Resp: 22500
Ion Ratio Lower Upper
96 100
61 167.8 0.0 332.4
98 64.1 0.0 129.0



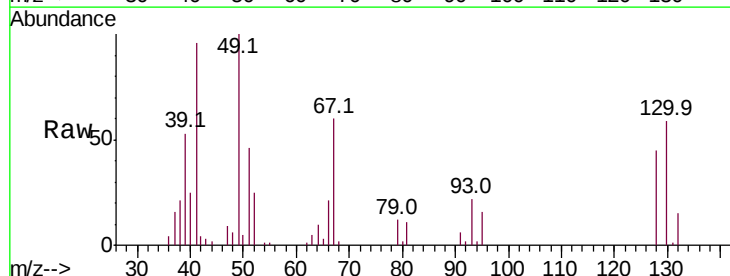
Abundance Ion 95.90 (95.60 to 96.60): VU0
Ion 60.90 (60.60 to 61.60): VU0
Ion 97.90 (97.60 to 98.60): VU0



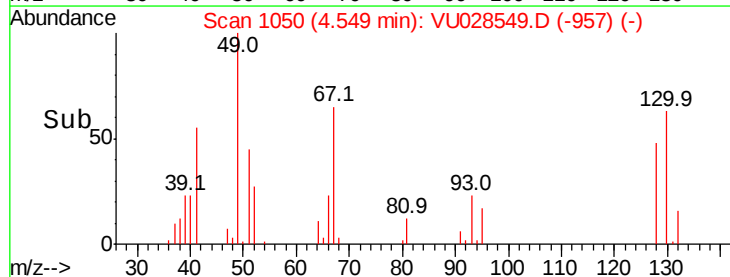
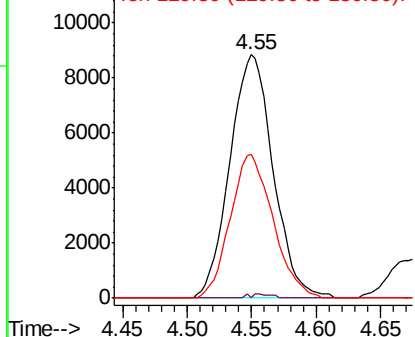
#28

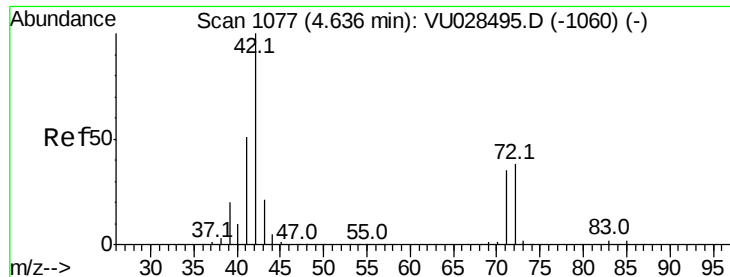
Bromochloromethane
Concen: 19.983 ug/l
RT: 4.55 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VU028549.D
Acq: 10 Dec 2018 14:27

Tgt Ion: 49 Resp: 20671
Ion Ratio Lower Upper
49 100
129 0.8 0.0 3.0
130 58.2 47.8 71.8



Abundance Ion 48.90 (48.60 to 49.60): VU0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 100.424 ug/l

RT: 4.64 min Scan# 1077

Delta R.T. -0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

Instrument :

MSVOA_U

ClientSampleId :

VU1211WBS01

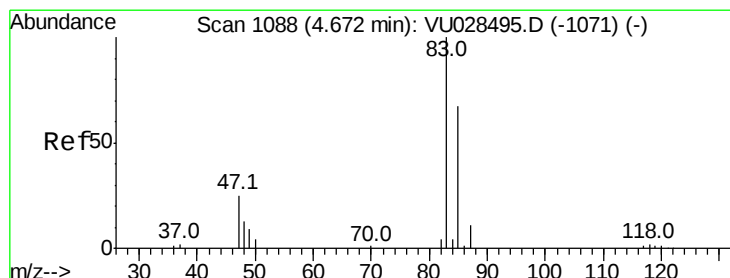
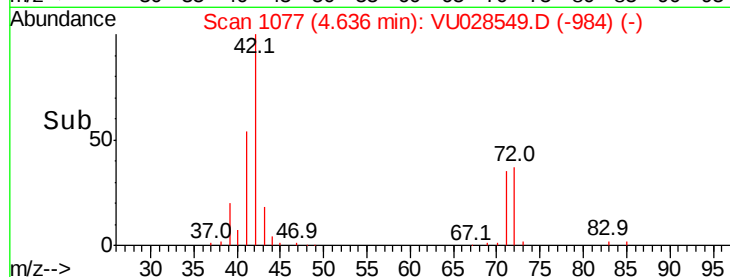
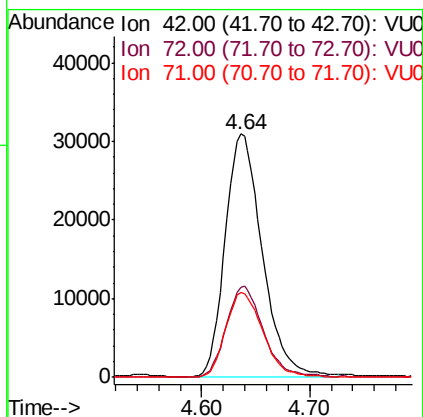
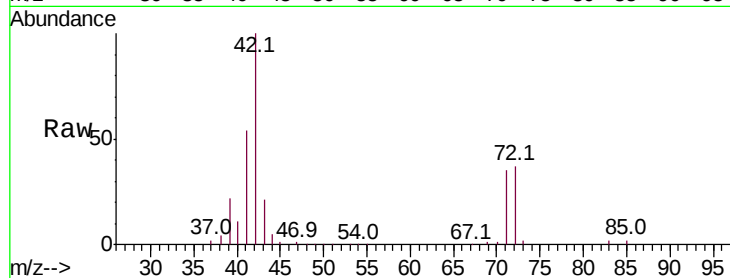
Tot Ion: 42 Resp: 74493

Ion Ratio Lower Upper

42 100

72 37.2 31.4 47.0

71 34.8 28.6 43.0



#30

Chloroform

Concen: 19.165 ug/l

RT: 4.67 min Scan# 1089

Delta R.T. 0.00 min

Lab File: VU028549.D

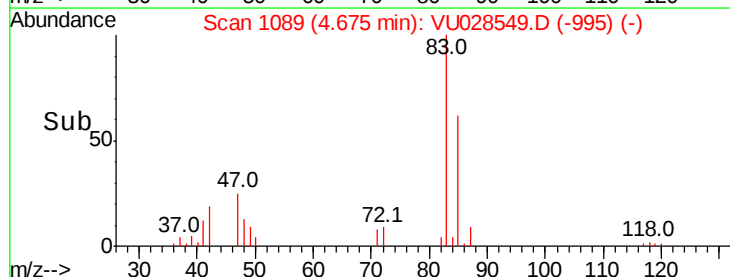
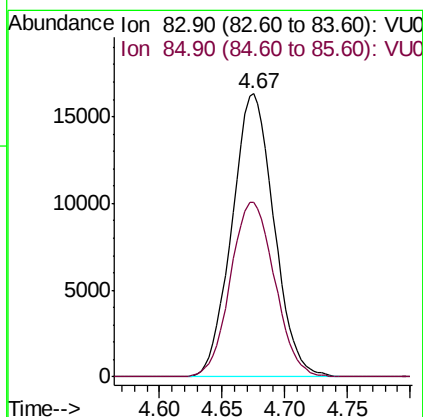
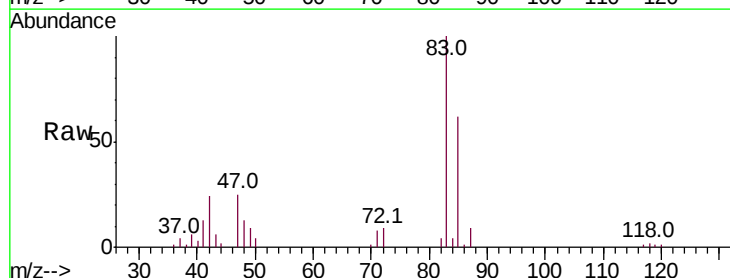
Acq: 10 Dec 2018 14:27

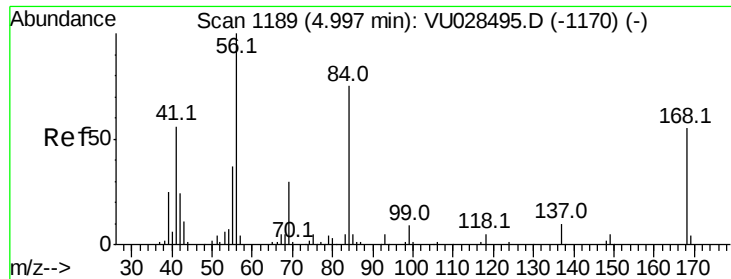
Tgt Ion: 83 Resp: 38010

Ion Ratio Lower Upper

83 100

85 61.8 53.6 80.4

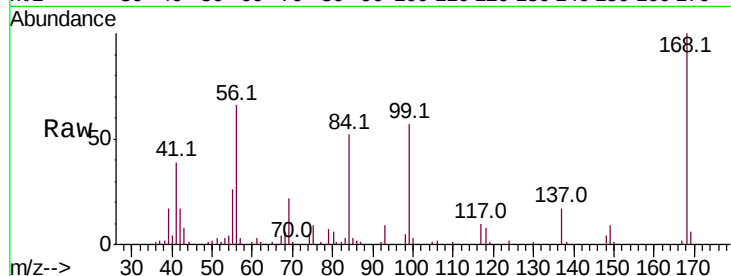




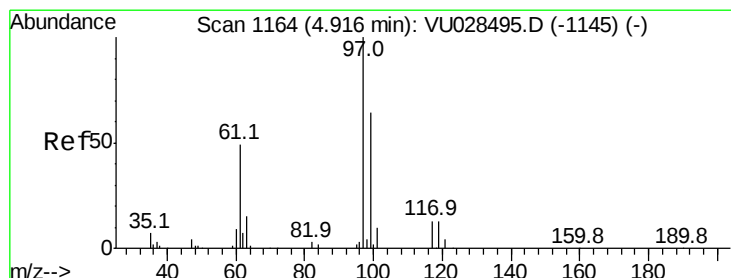
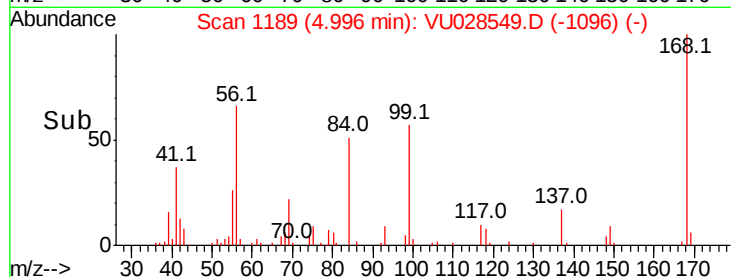
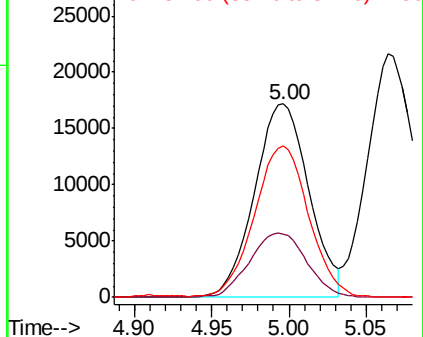
#31
Cvclohexane
Concen: 18.176 ug/l
RT: 5.00 min Scan# 1189
Delta R.T. 0.00 min
Lab File: VU028549.D
Acq: 10 Dec 2018 14:27

Instrument :
MSVOA_U
ClientSampleId :
VU1211WBS01

Tot Ion: 56 Resp: 42053
Ion Ratio Lower Upper
56 100
69 32.9 24.0 36.0
84 78.0 59.7 89.5

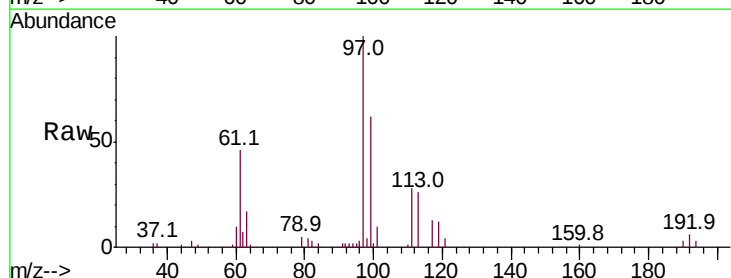


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

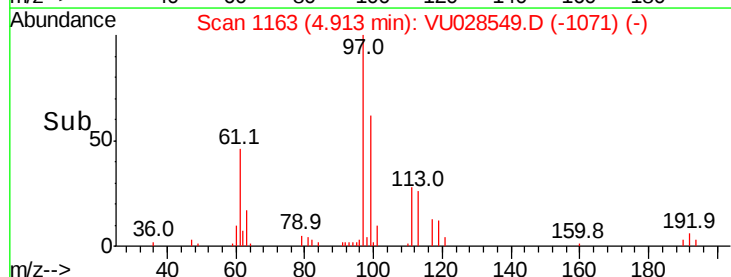
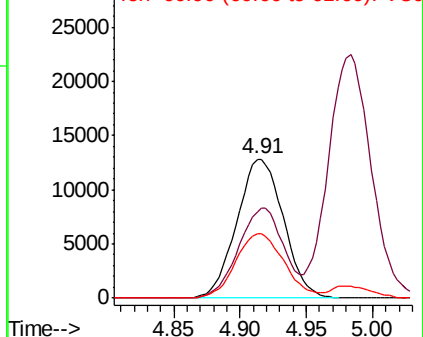


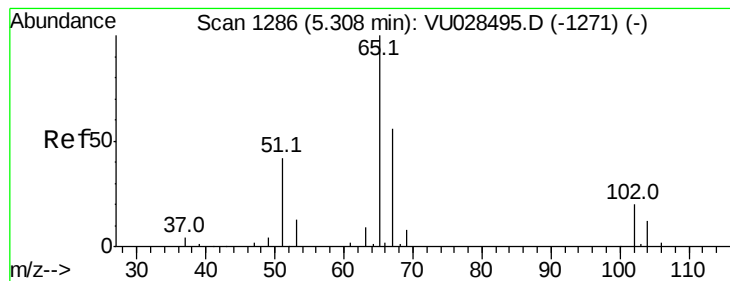
#32
1,1,1-Trichloroethane
Concen: 19.095 ug/l
RT: 4.91 min Scan# 1163
Delta R.T. -0.00 min
Lab File: VU028549.D
Acq: 10 Dec 2018 14:27

Tgt Ion: 97 Resp: 31453
Ion Ratio Lower Upper
97 100
99 62.2 52.3 78.5
61 47.9 39.0 58.6



Abundance Ion 96.90 (96.60 to 97.60): VU0
Ion 98.90 (98.60 to 99.60): VU0
Ion 60.90 (60.60 to 61.60): VU0





#33

1,2-Dichloroethane-d4

Concen: 51.073 ug/l

RT: 5.31 min Scan# 1286

Delta R.T. -0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

Instrument :

MSVOA_U

ClientSampleId :

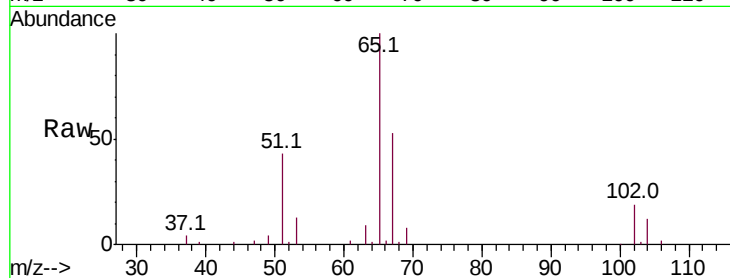
VU1211WBS01

Tot Ion: 65 Resp: 66148

Ion Ratio Lower Upper

65 100

67 54.0 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU028495.D (-1271) (-)

Ion 66.90 (66.60 to 67.60): VU028495.D (-1271) (-)

5.31

30000

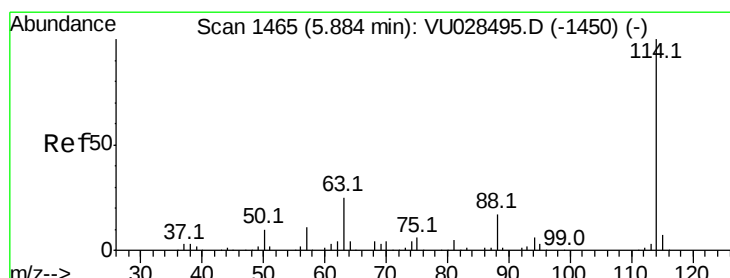
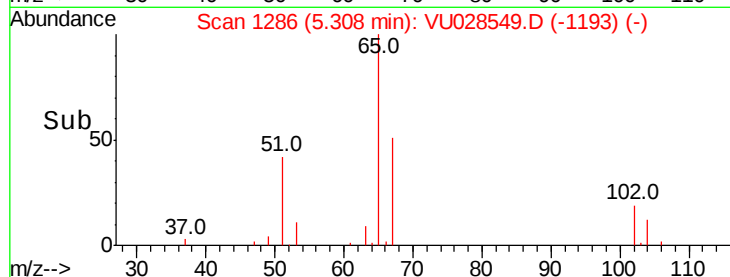
20000

10000

0

Time-->

5.25 5.30 5.35 5.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1466

Delta R.T. 0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

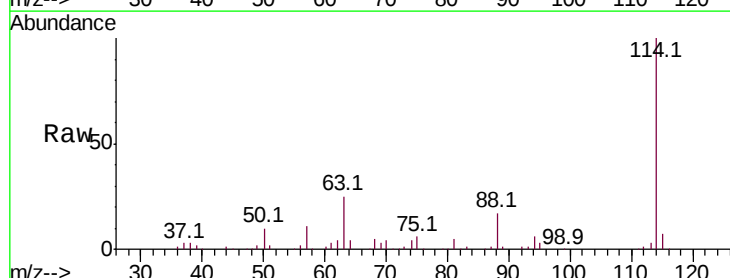
Tgt Ion: 114 Resp: 146094

Ion Ratio Lower Upper

114 100

63 25.0 0.0 49.2

88 16.5 0.0 33.4



Abundance Ion 113.90 (113.60 to 114.60): VU028495.D (-1450) (-)

Ion 63.00 (62.70 to 63.70): VU028495.D (-1450) (-)

Ion 87.90 (87.60 to 88.60): VU028495.D (-1450) (-)

5.89

100000

80000

60000

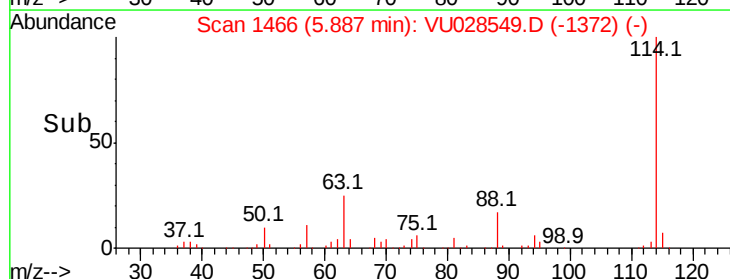
40000

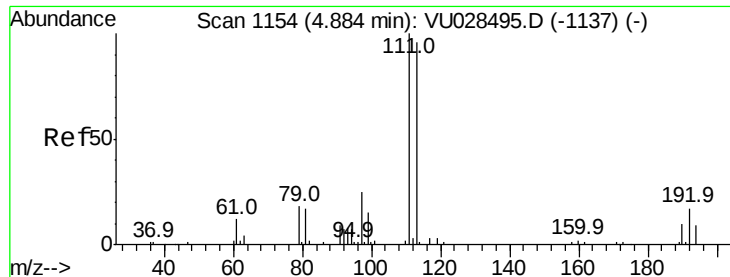
20000

0

Time-->

5.80 5.85 5.90 5.95 6.00





#35

Dibromofluoromethane

Concen: 52.409 ug/l

RT: 4.88 min Scan# 1154

Delta R.T. -0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

Instrument :

MSVOA_U

ClientSampleId :

VU1211WBS01

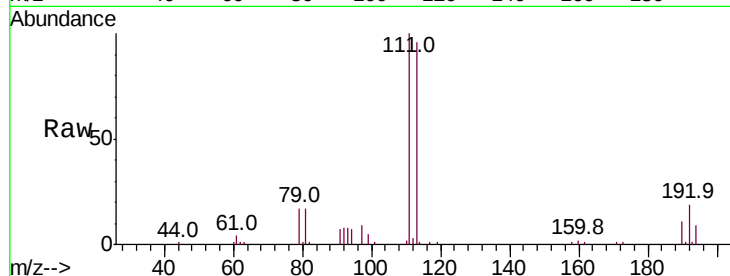
Tot Ion:113 Resp: 48184

Ion Ratio Lower Upper

113 100

111 102.8 83.4 125.0

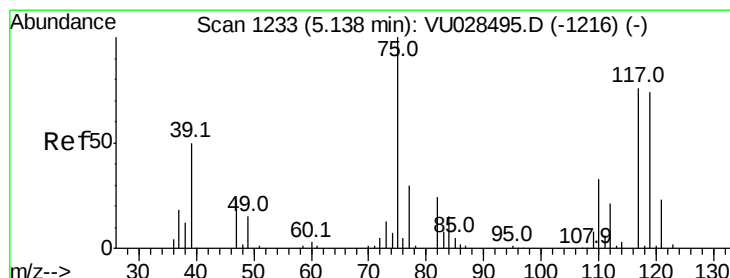
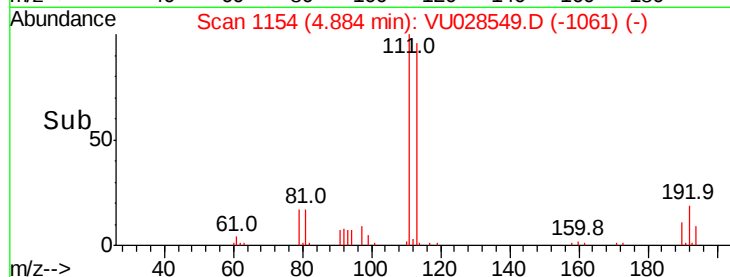
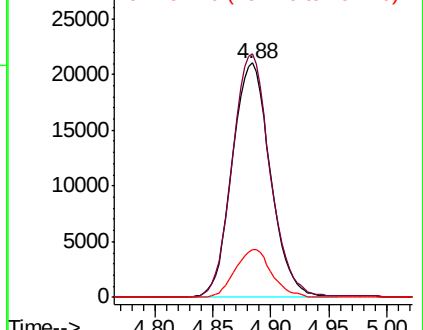
192 19.3 14.8 22.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 19.097 ug/l

RT: 5.14 min Scan# 1233

Delta R.T. -0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

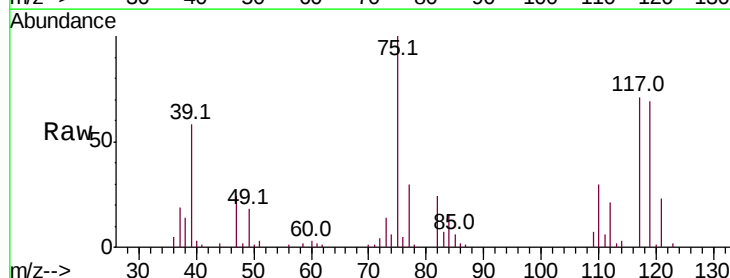
Tgt Ion: 75 Resp: 30530

Ion Ratio Lower Upper

75 100

110 30.3 16.1 48.2

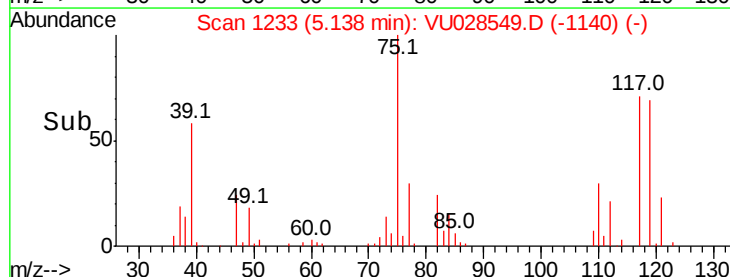
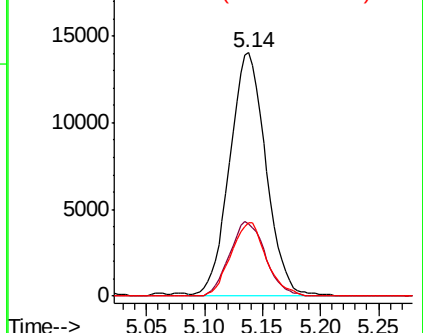
77 29.3 24.5 36.7

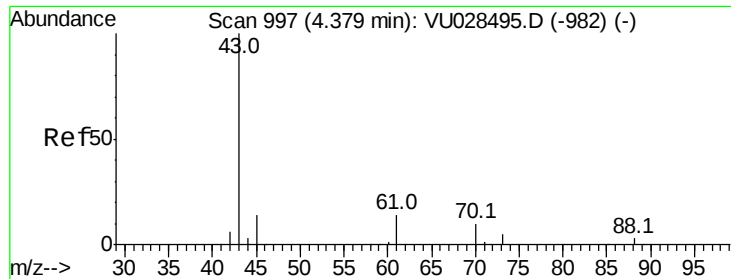


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0

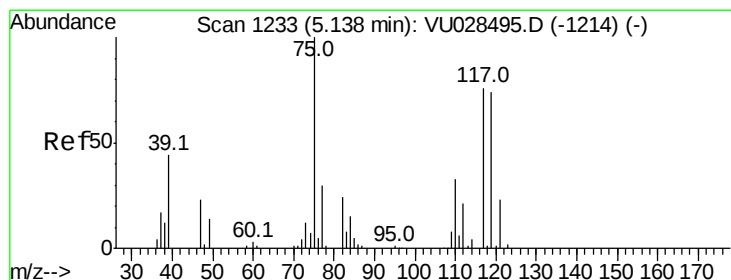
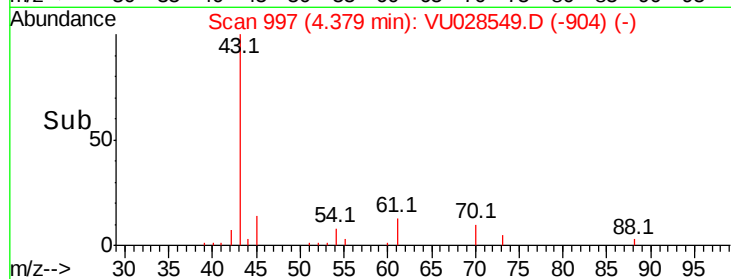
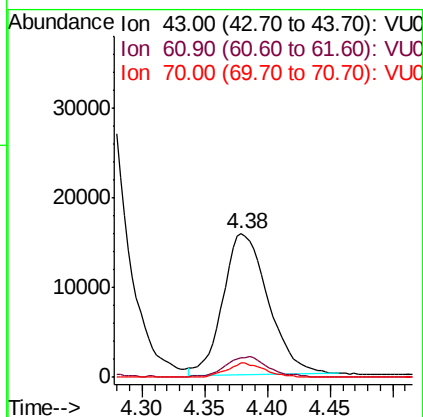
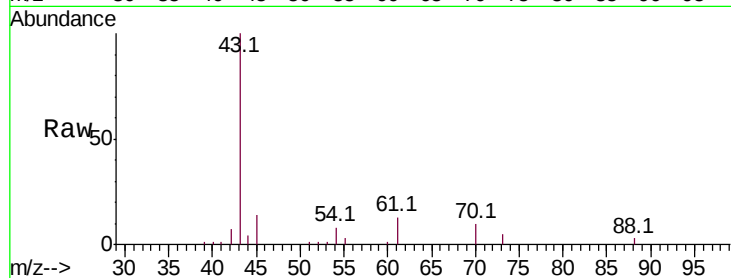




#37
Ethyl Acetate
Concen: 19.176 ug/l
RT: 4.38 min Scan# 997
Delta R.T. -0.00 min
Lab File: VU028549.D
Acq: 10 Dec 2018 14:27

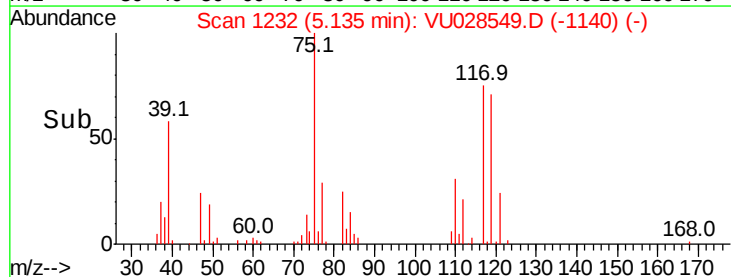
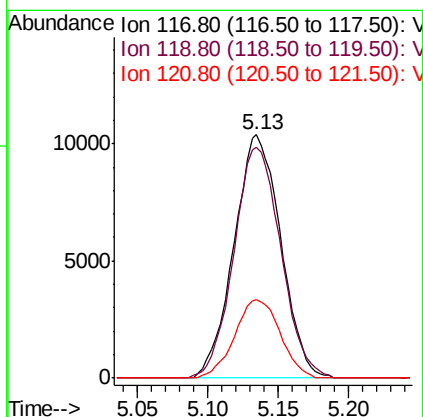
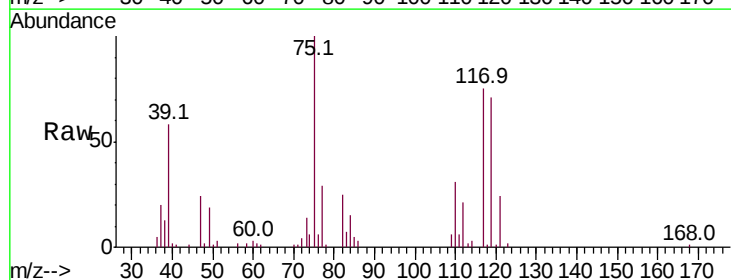
Instrument :
MSVOA_U
ClientSampleId :
VU1211WBS01

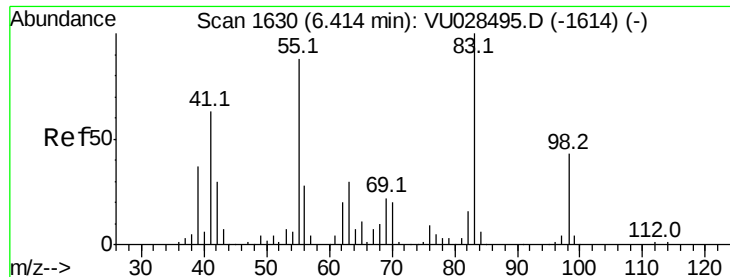
Tot Ion: 43 Resp: 39630
Ion Ratio Lower Upper
43 100
61 13.8 11.0 16.4
70 8.5 7.4 11.0



#38
Carbon Tetrachloride
Concen: 18.720 ug/l
RT: 5.13 min Scan# 1232
Delta R.T. -0.00 min
Lab File: VU028549.D
Acq: 10 Dec 2018 14:27

Tgt Ion: 117 Resp: 24122
Ion Ratio Lower Upper
117 100
119 94.9 77.6 116.4
121 32.1 24.6 36.8





#39

Methvlcvclohexane

Concen: 18.250 ug/l

RT: 6.41 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

Instrument :

MSVOA_U

ClientSampleId :

VU1211WBS01

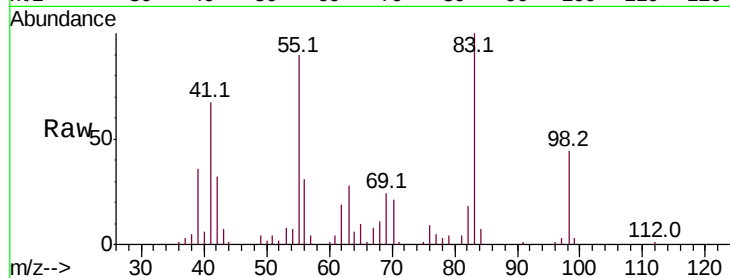
Tot Ion: 83 Resp: 35595

Ion Ratio Lower Upper

83 100

55 90.1 70.2 105.2

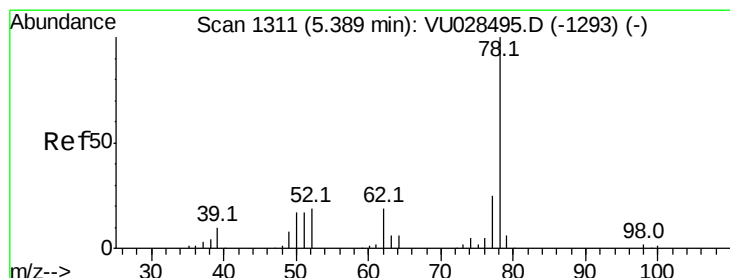
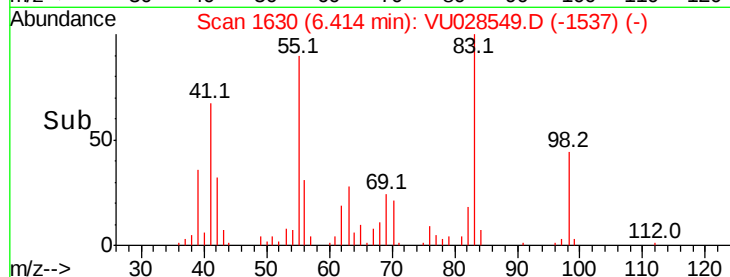
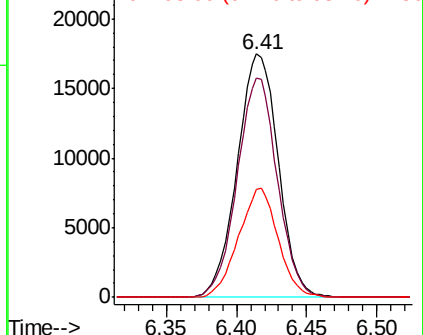
98 44.4 34.2 51.4



Abundance Ion 83.00 (82.70 to 83.70): VU028495.D (-1614) (-)

Ion 55.00 (54.70 to 55.70): VU028495.D (-1614) (-)

Ion 98.00 (97.70 to 98.70): VU028495.D (-1614) (-)



#40

Benzene

Concen: 19.207 ug/l

RT: 5.39 min Scan# 1311

Delta R.T. -0.00 min

Lab File: VU028549.D

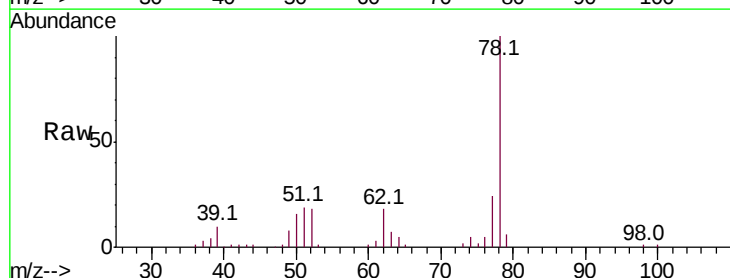
Acq: 10 Dec 2018 14:27

Tgt Ion: 78 Resp: 90438

Ion Ratio Lower Upper

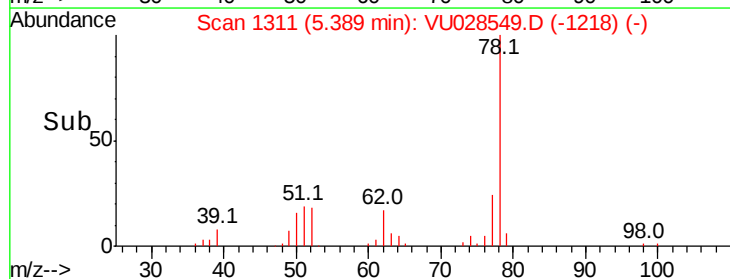
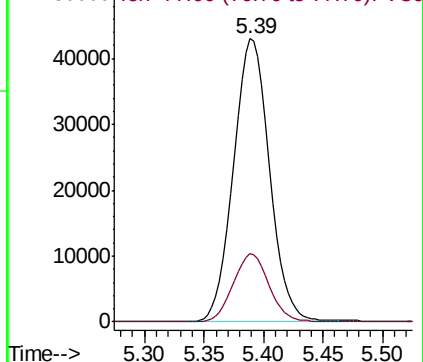
78 100

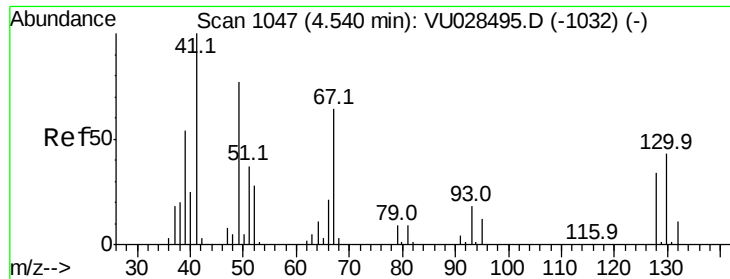
77 24.0 19.9 29.9



Abundance Ion 78.00 (77.70 to 78.70): VU028495.D (-1293) (-)

Ion 77.00 (76.70 to 77.70): VU028495.D (-1293) (-)

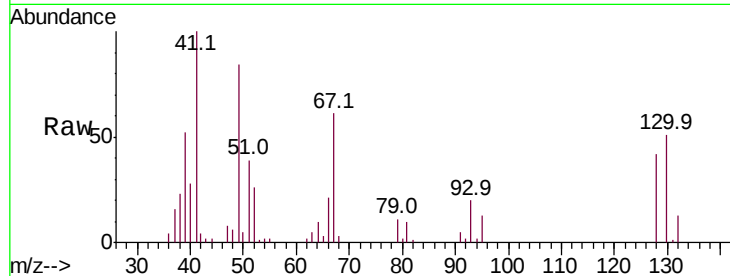




#41
Methacrylonitrile
Concen: 19.628 ug/l
RT: 4.54 min Scan# 1048
Delta R.T. 0.00 min
Lab File: VU028549.D
Acq: 10 Dec 2018 14:27

Instrument :
MSVOA_U
ClientSampleId :
VU1211WBS01

Tot Ion:	41	Resp:	22215
Ion	Ratio	Lower	Upper
41	100		
39	54.1	43.3	64.9
67	64.1	53.6	80.4
52	27.2	22.1	33.1



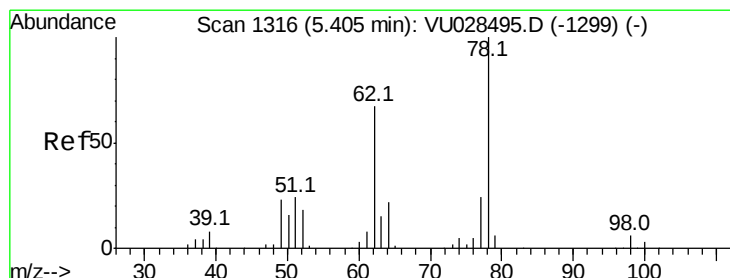
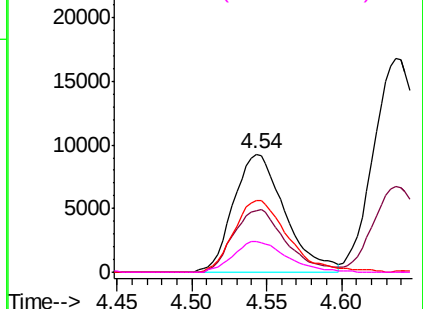
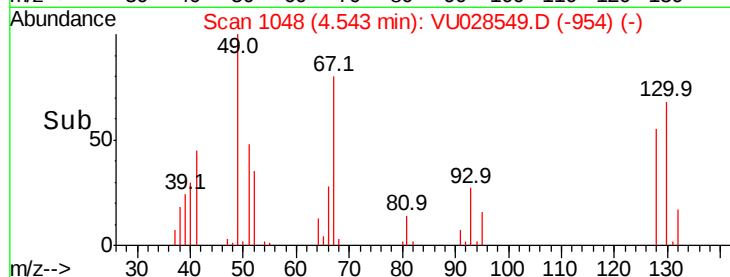
Abundance

Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

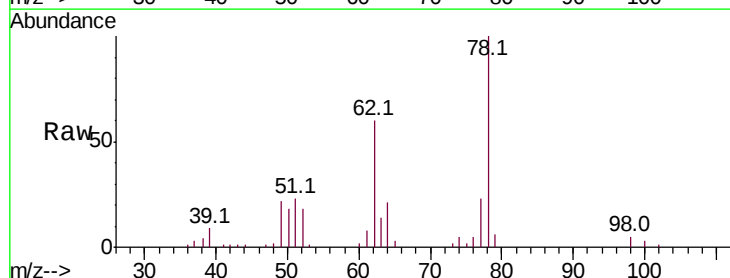
Ion 67.00 (66.70 to 67.70): VU0

Ion 52.00 (51.70 to 52.70): VU0



#42
1,2-Dichloroethane
Concen: 19.228 ug/l
RT: 5.40 min Scan# 1316
Delta R.T. -0.00 min
Lab File: VU028549.D
Acq: 10 Dec 2018 14:27

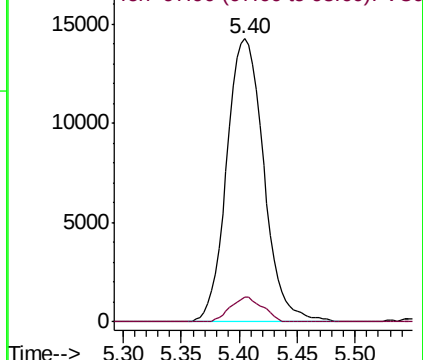
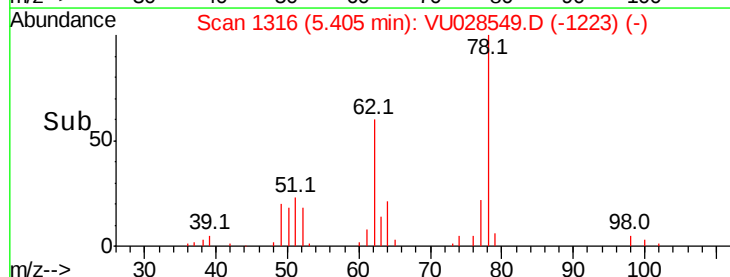
Tgt Ion:	62	Resp:	31690
Ion	Ratio	Lower	Upper
62	100		
98	7.7	0.0	17.2

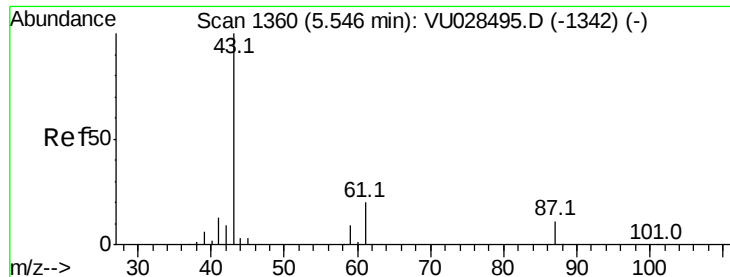


Abundance

Ion 61.90 (61.60 to 62.60): VU0

Ion 97.90 (97.60 to 98.60): VU0





#43

Isopropyl Acetate

Concen: 19.459 ug/l

RT: 5.55 min Scan# 1361

Delta R.T. 0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

Instrument :

MSVOA_U

ClientSampleId :

VU1211WBS01

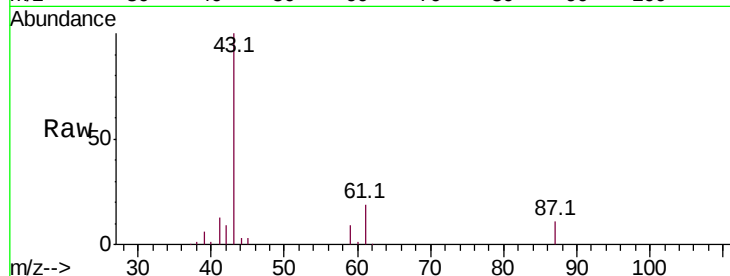
Tot Ion: 43 Resp: 63607

Ion Ratio Lower Upper

43 100

61 19.1 15.5 23.3

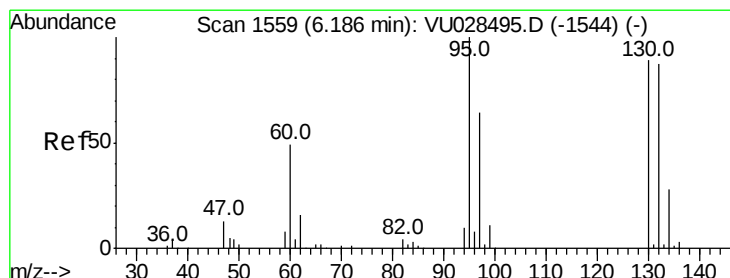
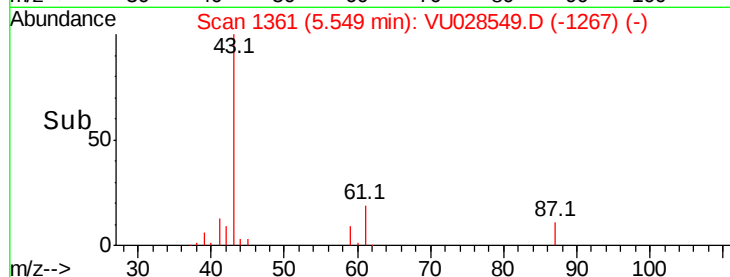
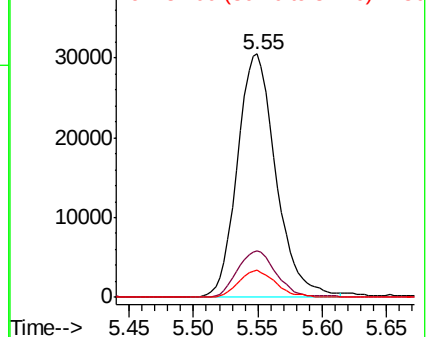
87 10.6 8.7 13.1



Abundance Ion 43.00 (42.70 to 43.70): VU028495.D (-1342) (-)

Ion 61.00 (60.70 to 61.70): VU028495.D (-1342) (-)

Ion 87.00 (86.70 to 87.70): VU028495.D (-1342) (-)



#44

Trichloroethene

Concen: 18.620 ug/l

RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU028549.D

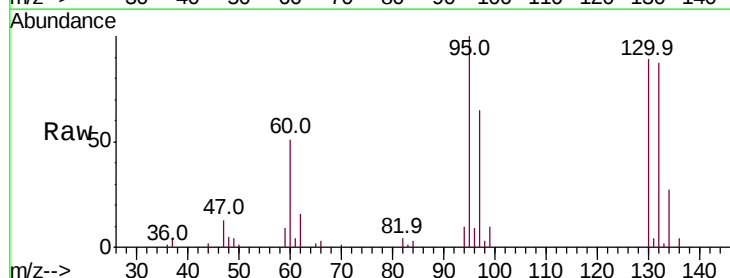
Acq: 10 Dec 2018 14:27

Tgt Ion:130 Resp: 19494

Ion Ratio Lower Upper

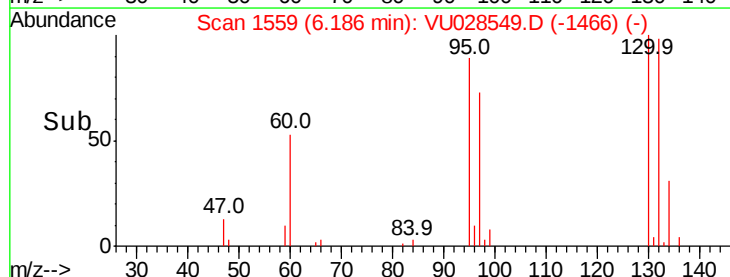
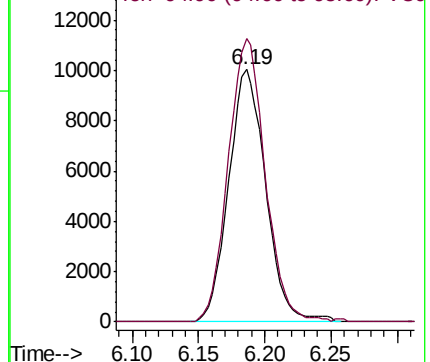
130 100

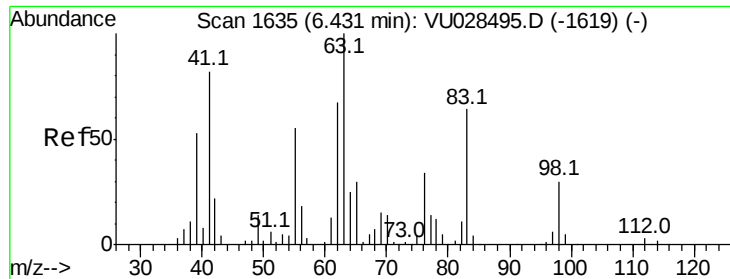
95 112.3 0.0 224.0



Abundance Ion 129.80 (129.50 to 130.50): VU028495.D (-1544) (-)

Ion 94.90 (94.60 to 95.60): VU028495.D (-1544) (-)





#45

1,2-Dichloropropane

Concen: 19.726 ug/l

RT: 6.43 min Scan# 1635

Delta R.T. -0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

Instrument :

MSVOA_U

ClientSampleId :

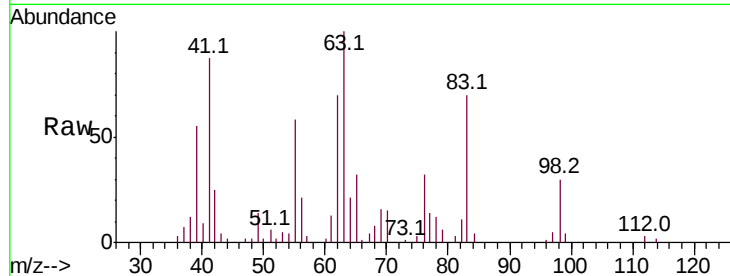
VU1211WBS01

Tot Ion: 63 Resp: 26119

Ion Ratio Lower Upper

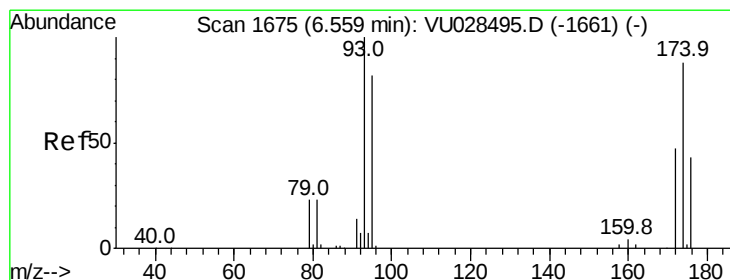
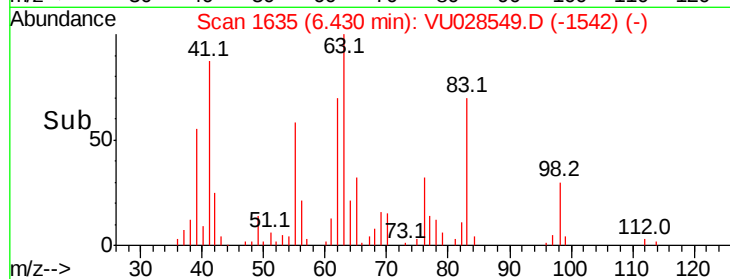
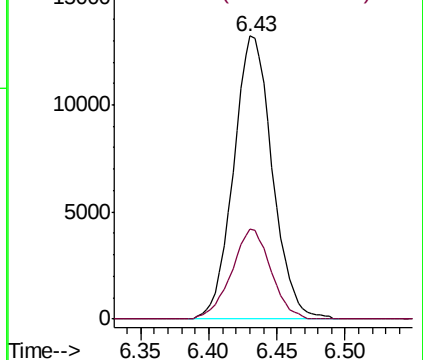
63 100

65 32.0 24.2 36.4



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 64.90 (64.60 to 65.60): VU0



#46

Dibromomethane

Concen: 19.250 ug/l

RT: 6.56 min Scan# 1675

Delta R.T. -0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

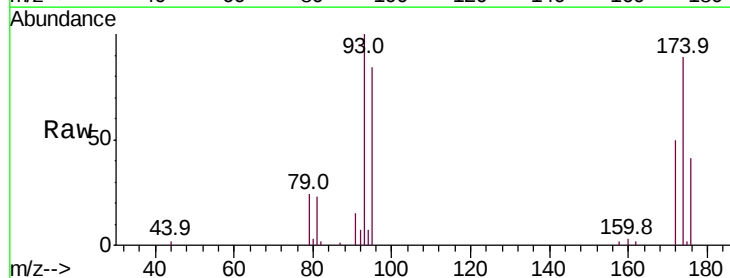
Tgt Ion: 93 Resp: 15123

Ion Ratio Lower Upper

93 100

95 82.4 65.4 98.2

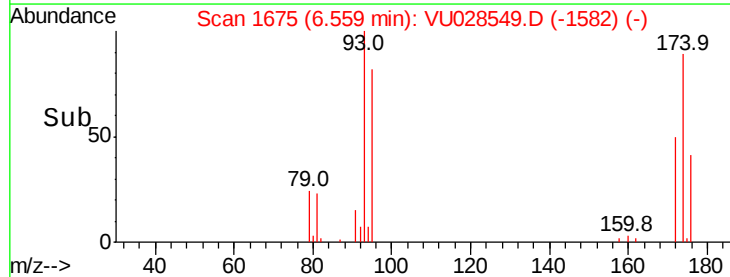
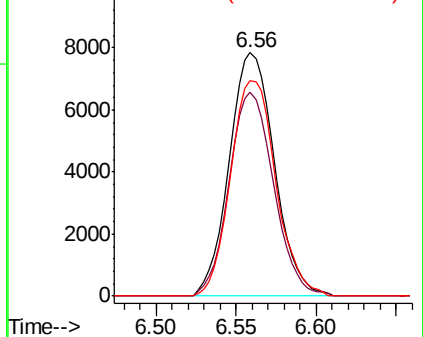
174 88.8 72.2 108.4

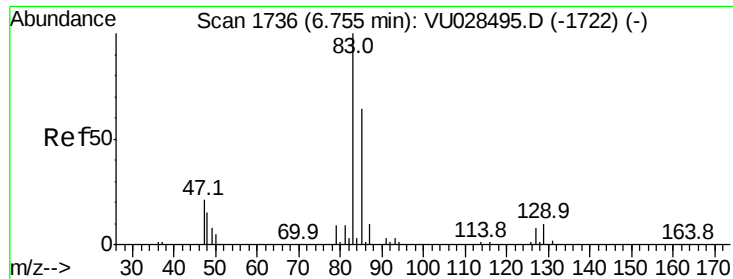


Abundance Ion 92.80 (92.50 to 93.50): VU0

Ion 94.80 (94.50 to 95.50): VU0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 18.999 ug/l

RT: 6.76 min Scan# 1736

Delta R.T. -0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

Instrument :

MSVOA_U

ClientSampleId :

VU1211WBS01

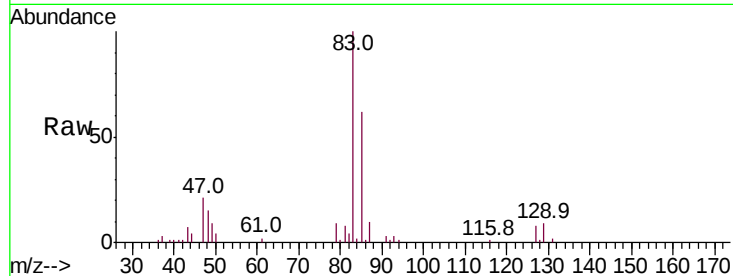
Tot Ion: 83 Resp: 29045

Ion Ratio Lower Upper

83 100

85 61.9 51.5 77.3

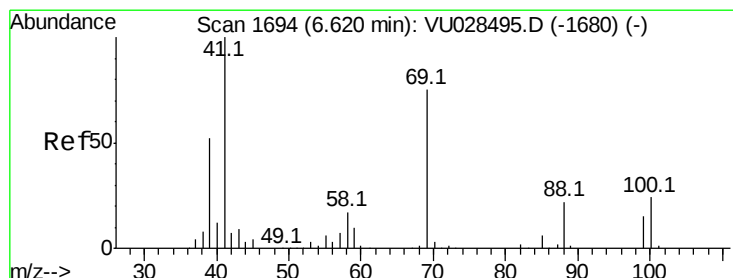
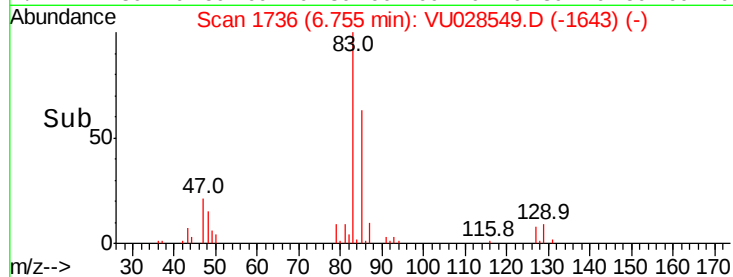
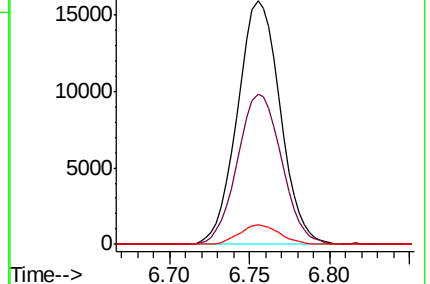
127 7.8 6.2 9.4



Abundance Ion 82.90 (82.60 to 83.60): VU028495.D (-1722) (-)

Ion 84.90 (84.60 to 85.60): VU028495.D (-1722) (-)

Ion 126.80 (126.50 to 127.50): VU028495.D (-1722) (-)



#48

Methyl methacrylate

Concen: 19.480 ug/l

RT: 6.62 min Scan# 1695

Delta R.T. 0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

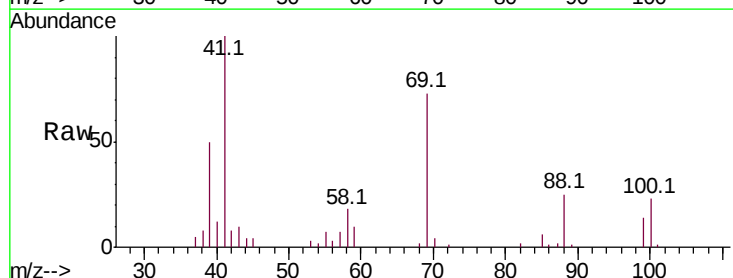
Tgt Ion: 41 Resp: 31667

Ion Ratio Lower Upper

41 100

69 74.9 60.4 90.6

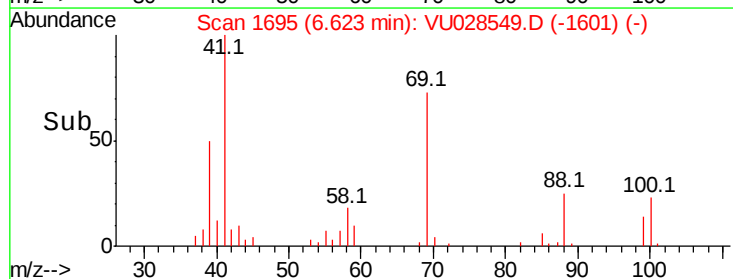
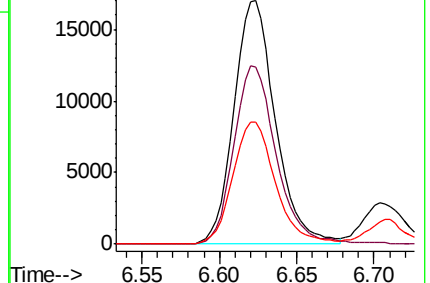
39 51.5 41.1 61.7

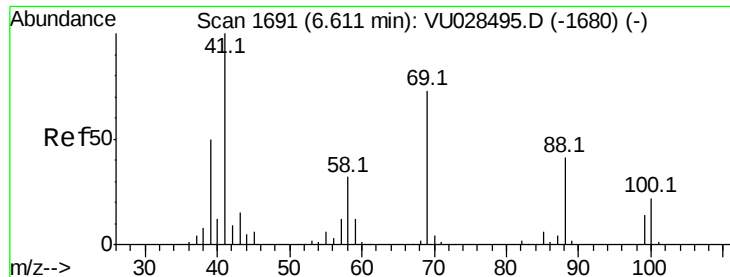


Abundance Ion 41.00 (40.70 to 41.70): VU028495.D (-1680) (-)

Ion 69.00 (68.70 to 69.70): VU028495.D (-1680) (-)

Ion 39.00 (38.70 to 39.70): VU028495.D (-1680) (-)

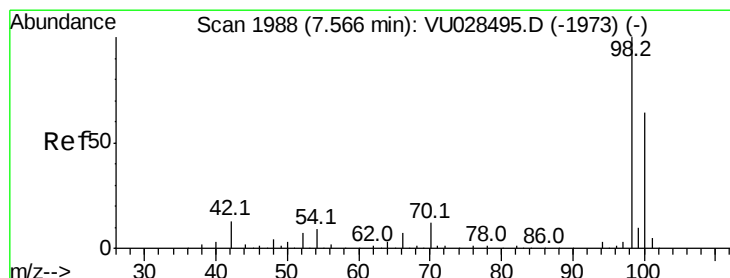
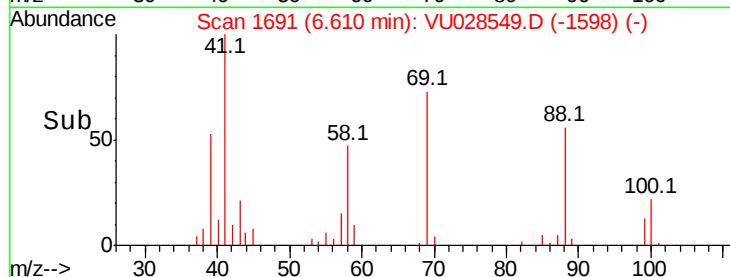
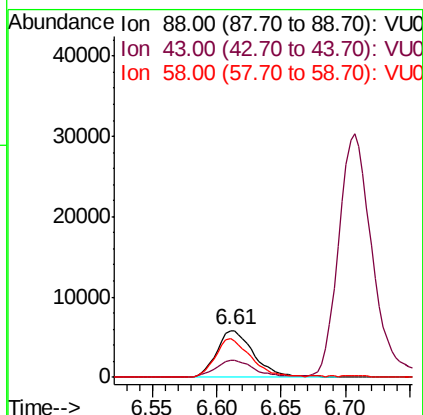
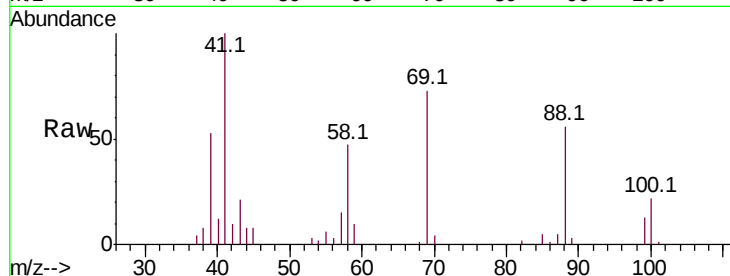




#49
1,4-Dioxane
Concen: 455.404 ug/l
RT: 6.61 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VU028549.D
Acq: 10 Dec 2018 14:27

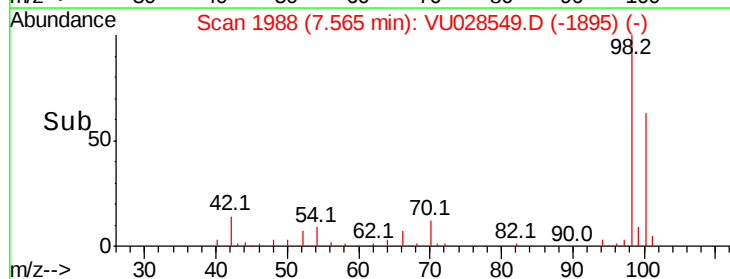
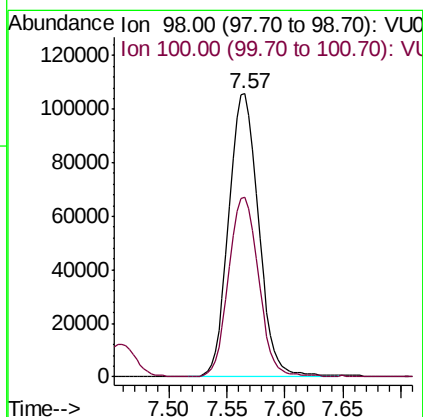
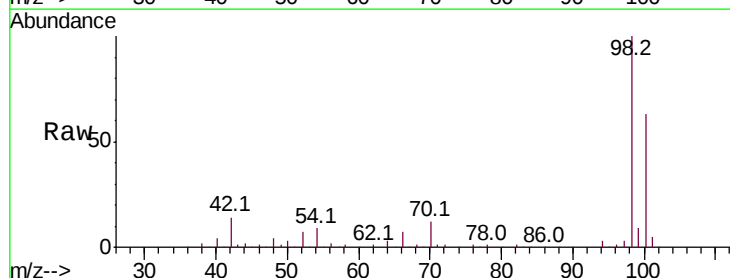
Instrument :
MSVOA_U
ClientSampleId :
VU1211WBS01

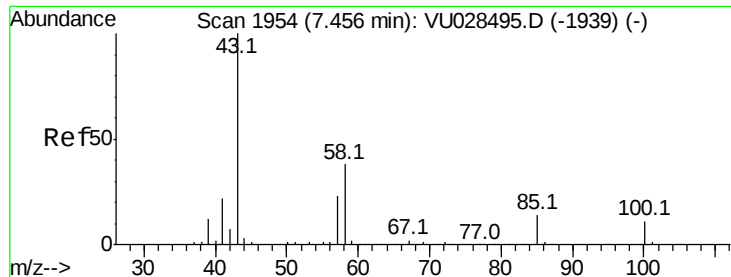
Tot Ion: 88 Resp: 11689
Ion Ratio Lower Upper
88 100
43 38.1 30.9 46.3
58 79.6 62.4 93.6



#50
Toluene-d8
Concen: 52.000 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VU028549.D
Acq: 10 Dec 2018 14:27

Tgt Ion: 98 Resp: 189120
Ion Ratio Lower Upper
98 100
100 63.1 51.0 76.6





#51

4-Methyl-2-Pentanone

Concen: 97.294 ug/l

RT: 7.46 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

Instrument :

MSVOA_U

ClientSampleId :

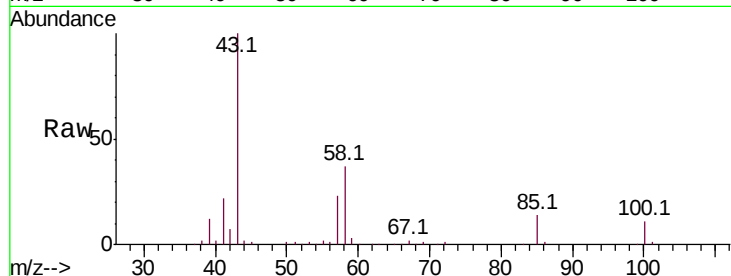
VU1211WBS01

Tot Ion: 43 Resp: 200587

Ion Ratio Lower Upper

43 100

58 37.2 30.2 45.2



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

7.46

120000

100000

80000

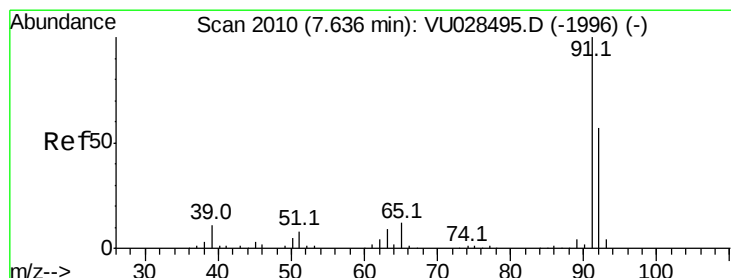
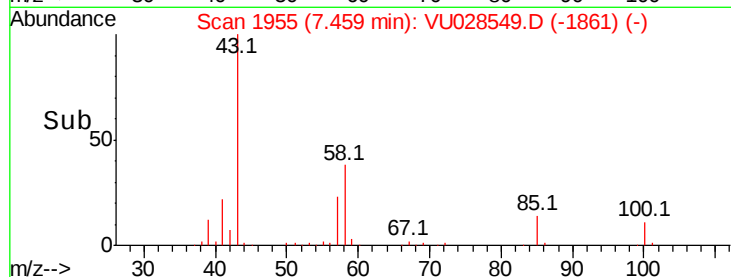
60000

40000

20000

0

Time--> 7.35 7.40 7.45 7.50 7.55



#52

Toluene

Concen: 18.856 ug/l

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU028549.D

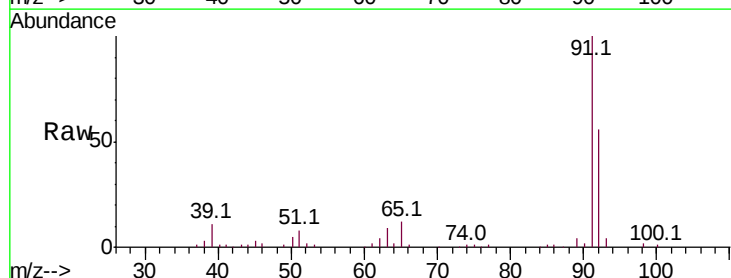
Acq: 10 Dec 2018 14:27

Tgt Ion: 92 Resp: 52251

Ion Ratio Lower Upper

92 100

91 174.6 140.2 210.4



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0

60000

50000

40000

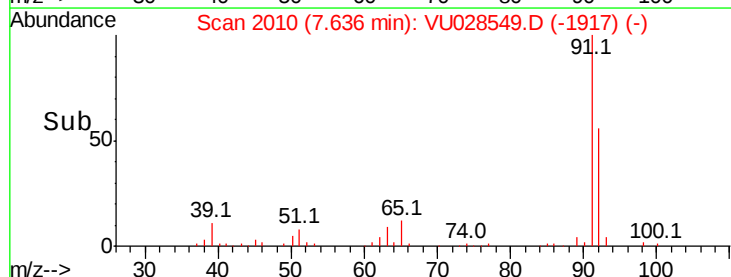
30000

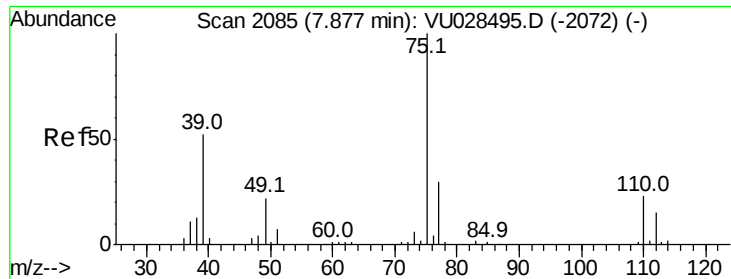
20000

10000

0

Time--> 7.60 7.70





#53

t-1,3-Dichloropropene

Concen: 19.331 ug/l

RT: 7.88 min Scan# 2085

Delta R.T. -0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

Instrument :

MSVOA_U

ClientSampleId :

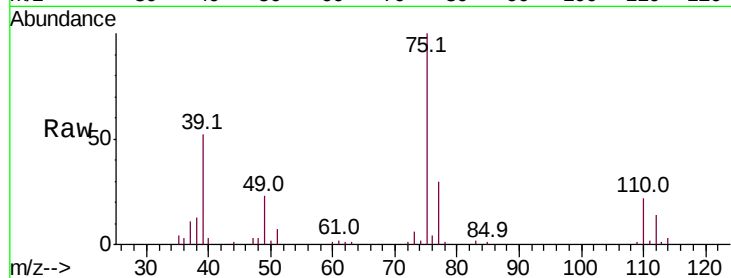
VU1211WBS01

Tot Ion: 75 Resp: 35196

Ion Ratio Lower Upper

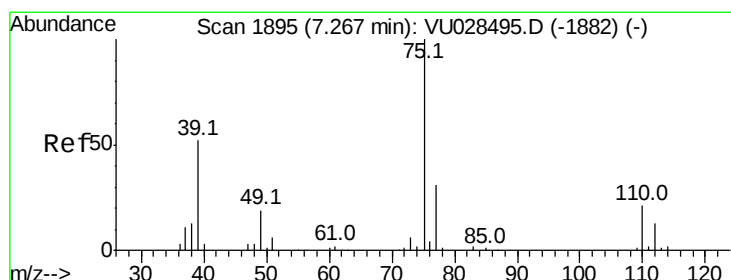
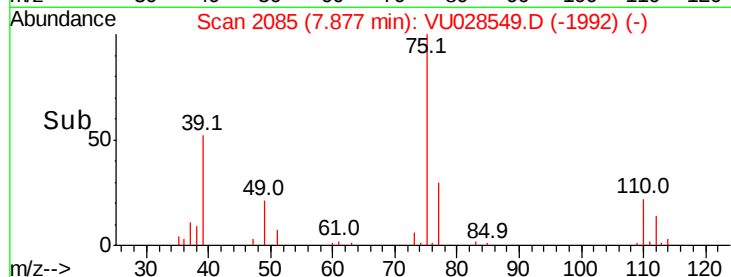
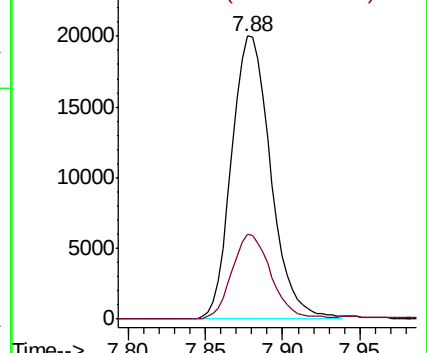
75 100

77 30.0 24.2 36.4



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0



#54

cis-1,3-Dichloropropene

Concen: 18.799 ug/l

RT: 7.27 min Scan# 1896

Delta R.T. 0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

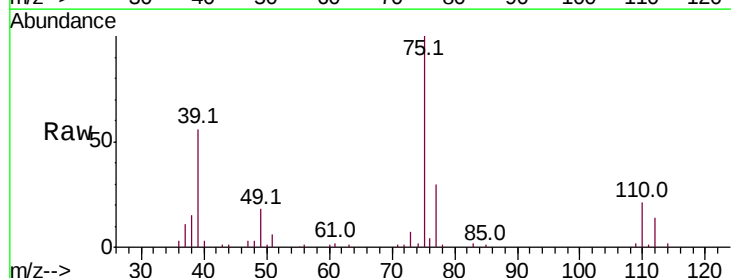
Tgt Ion: 75 Resp: 37134

Ion Ratio Lower Upper

75 100

77 30.4 25.0 37.4

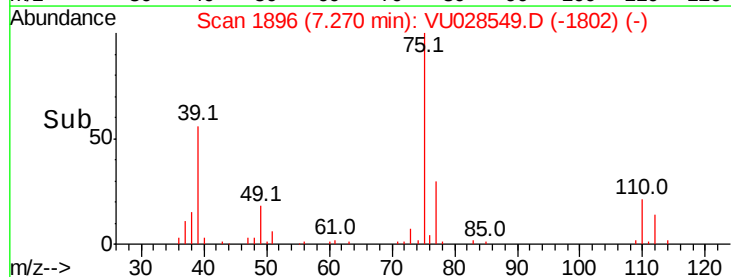
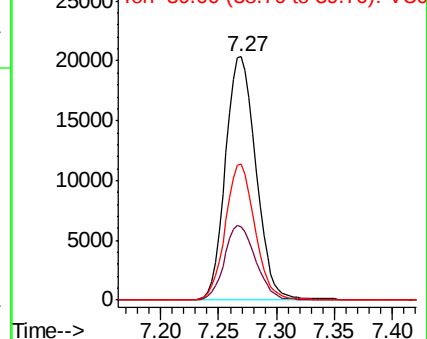
39 56.0 41.3 61.9

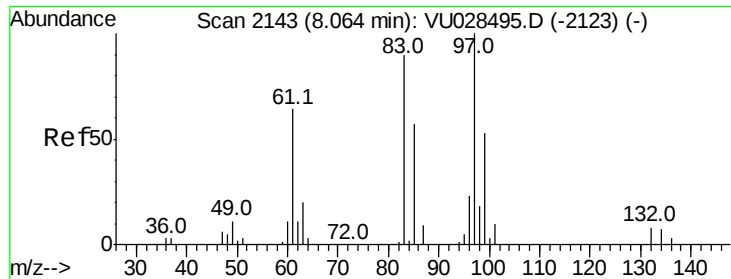


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0

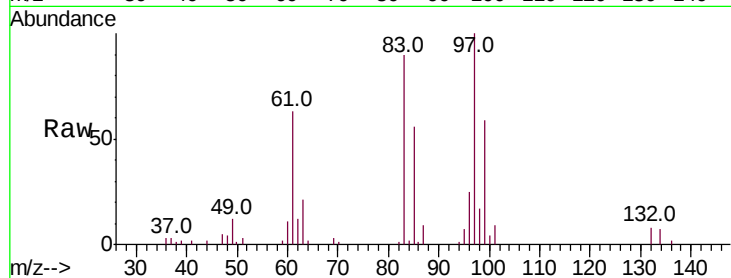




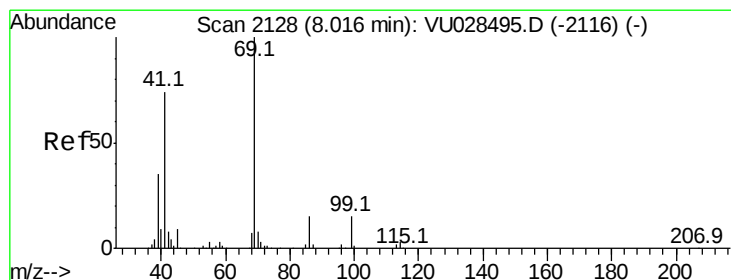
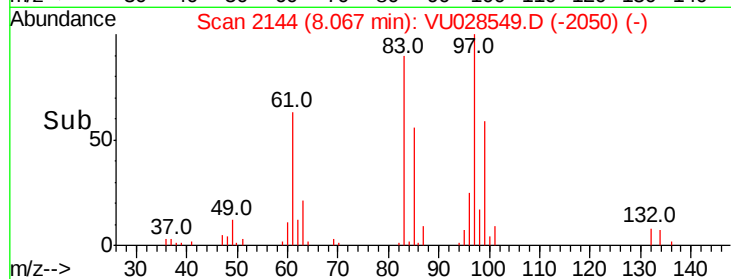
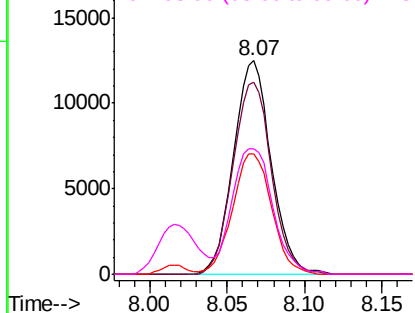
#55
 1,1,2-Trichloroethane
 Concen: 19.290 ug/l
 RT: 8.07 min Scan# 2144
 Delta R.T. 0.00 min
 Lab File: VU028549.D
 Acq: 10 Dec 2018 14:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1211WBS01

Tot Ion:	97	Resp:	21130
Ion	Ratio	Lower	Upper
97	100		
83	89.9	72.4	108.6
85	56.3	46.0	69.0
99	58.9	47.4	71.2

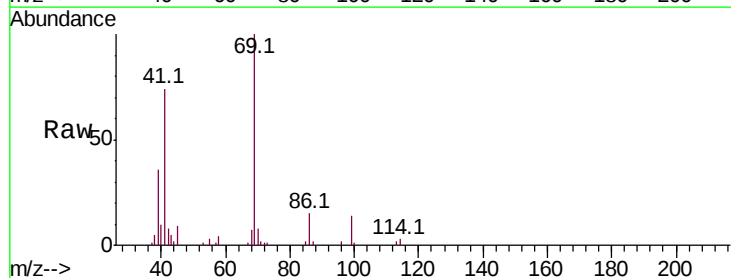


Abundance Ion 96.90 (96.60 to 97.60): VU0
 Ion 82.90 (82.60 to 83.60): VU0
 Ion 84.90 (84.60 to 85.60): VU0
 Ion 98.90 (98.60 to 99.60): VU0

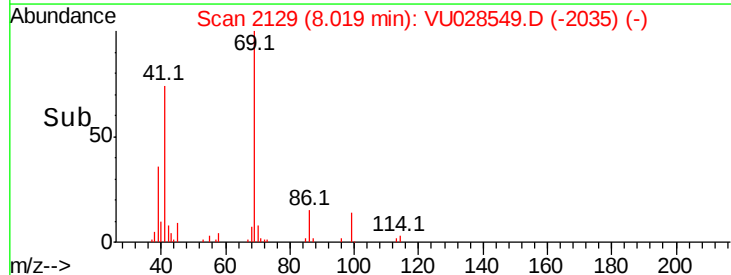
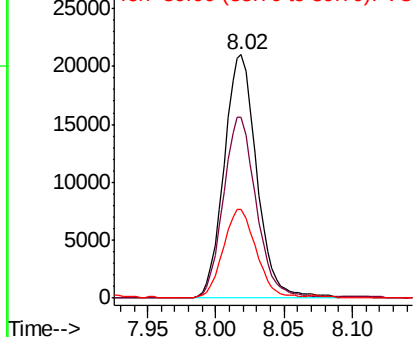


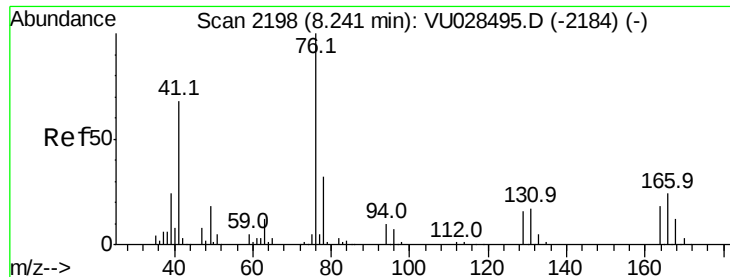
#56
 Ethyl methacrylate
 Concen: 18.688 ug/l
 RT: 8.02 min Scan# 2129
 Delta R.T. 0.00 min
 Lab File: VU028549.D
 Acq: 10 Dec 2018 14:27

Tgt Ion:	69	Resp:	35055
Ion	Ratio	Lower	Upper
69	100		
41	75.5	59.1	88.7
39	37.0	28.4	42.6



Abundance Ion 69.00 (68.70 to 69.70): VU0
 Ion 41.00 (40.70 to 41.70): VU0
 Ion 39.00 (38.70 to 39.70): VU0





#57

1,3-Dichloropropane

Concen: 19.173 ug/l

RT: 8.24 min Scan# 2198

Delta R.T. -0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

Instrument :

MSVOA_U

ClientSampleId :

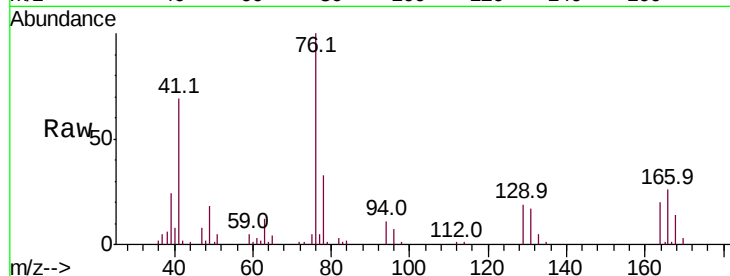
VU1211WBS01

Tot Ion: 76 Resp: 38986

Ion Ratio Lower Upper

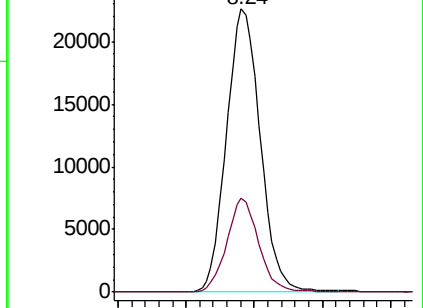
76 100

78 30.9 25.2 37.8

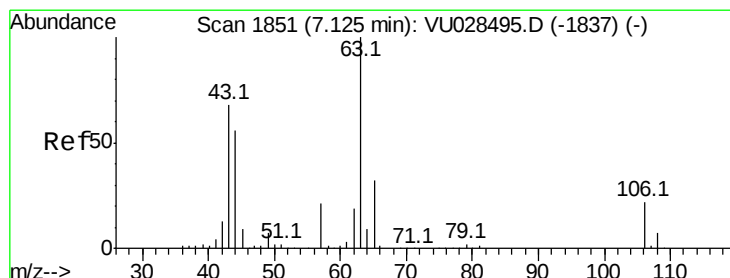
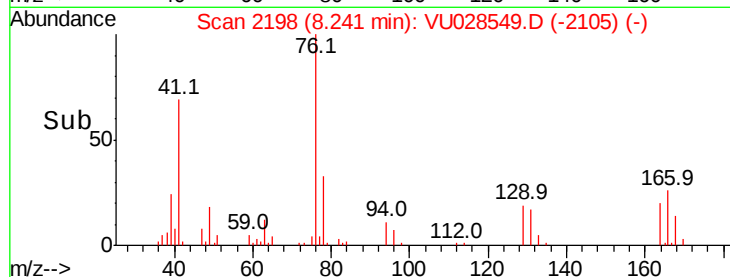


Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



Time--> 8.15 8.20 8.25 8.30 8.35



#58

2-Chloroethyl Vinyl ether

Concen: 94.093 ug/l

RT: 7.13 min Scan# 1852

Delta R.T. 0.00 min

Lab File: VU028549.D

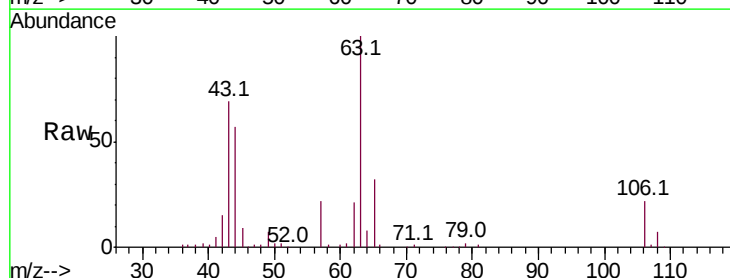
Acq: 10 Dec 2018 14:27

Tgt Ion: 63 Resp: 90402

Ion Ratio Lower Upper

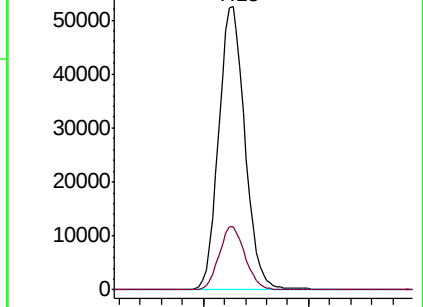
63 100

106 22.0 17.8 26.6

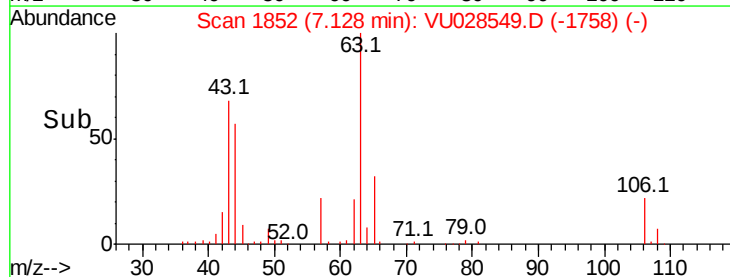


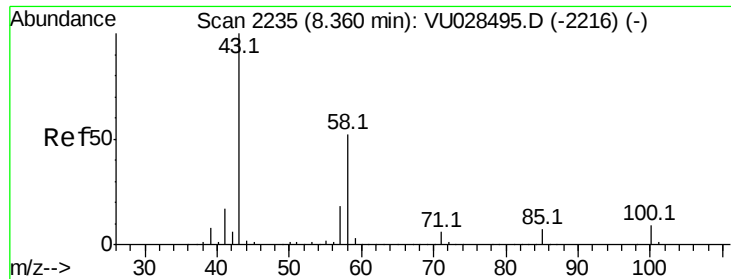
Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 105.90 (105.60 to 106.60): V



Time--> 7.10 7.20

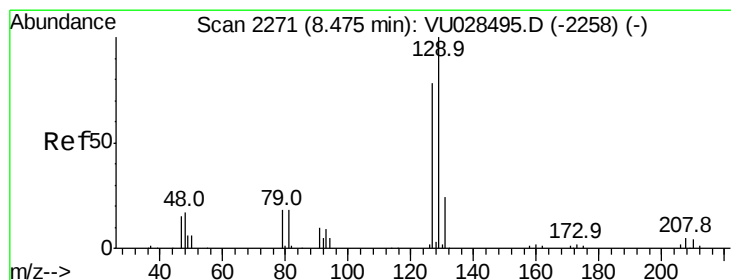
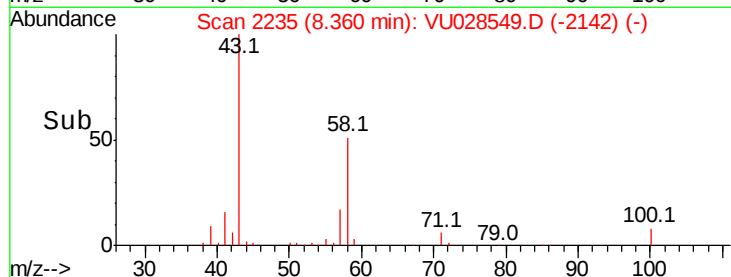
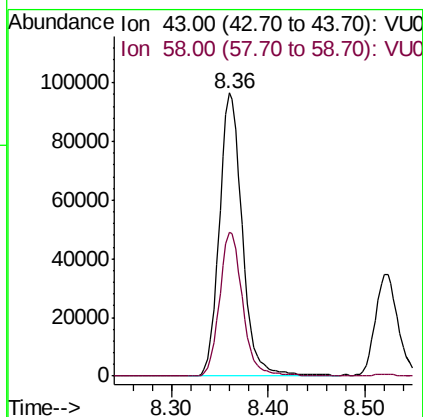
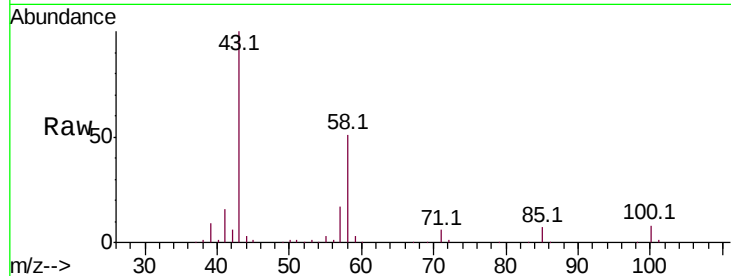




#59
2-Hexanone
Concen: 97.391 ug/l
RT: 8.36 min Scan# 2235
Delta R.T. -0.00 min
Lab File: VU028549.D
Acq: 10 Dec 2018 14:27

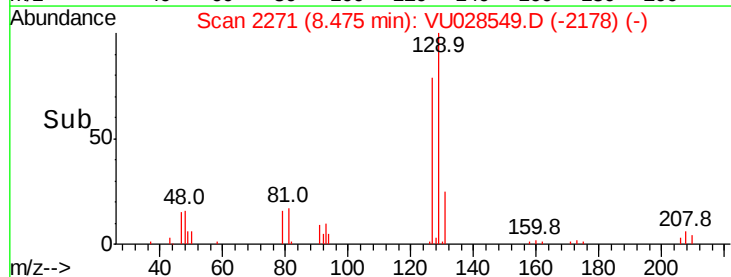
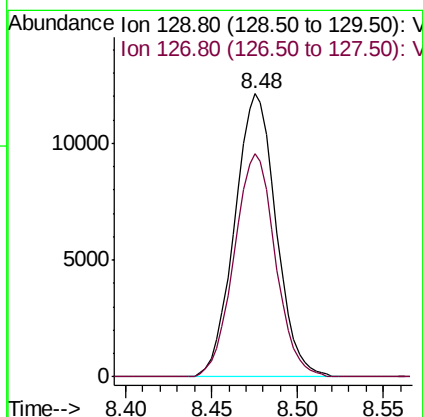
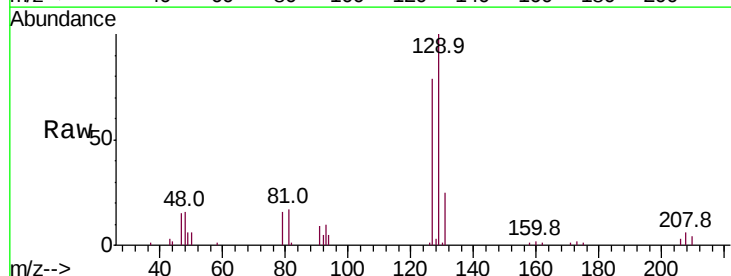
Instrument :
MSVOA_U
ClientSampleId :
VU1211WBS01

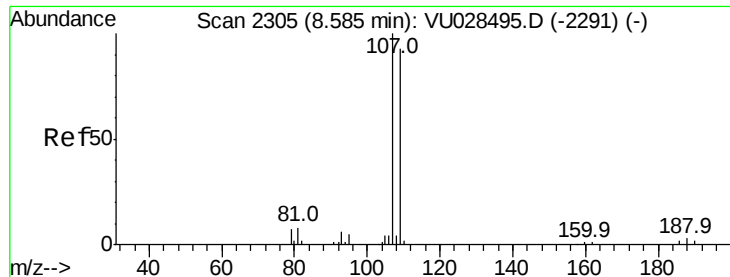
Tot Ion: 43 Resp: 159146
Ion Ratio Lower Upper
43 100
58 51.3 25.9 77.6



#60
Dibromochloromethane
Concen: 18.948 ug/l
RT: 8.48 min Scan# 2271
Delta R.T. -0.00 min
Lab File: VU028549.D
Acq: 10 Dec 2018 14:27

Tgt Ion: 129 Resp: 20321
Ion Ratio Lower Upper
129 100
127 78.4 39.1 117.3

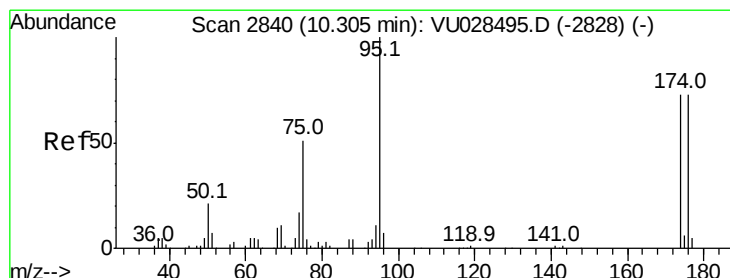
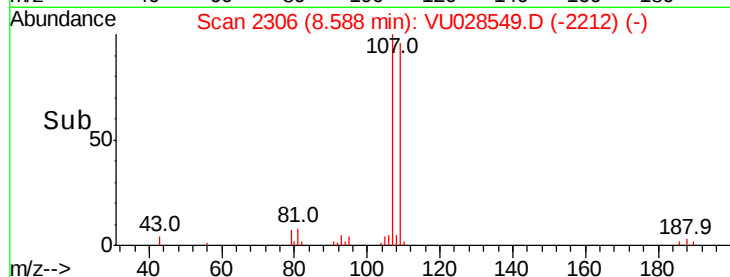
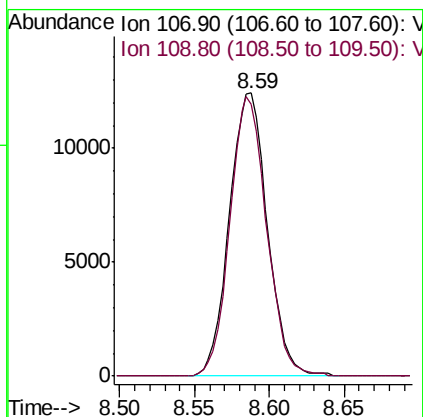
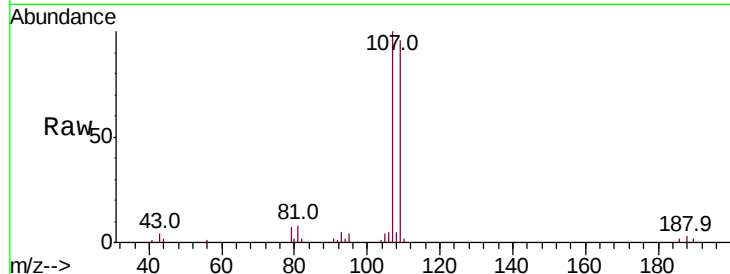




#61
 1,2-Dibromoethane
 Concen: 19.097 ug/l
 RT: 8.59 min Scan# 2306
 Delta R.T. 0.00 min
 Lab File: VU028549.D
 Acq: 10 Dec 2018 14:27

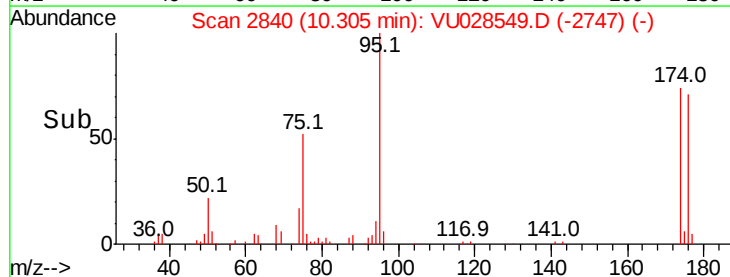
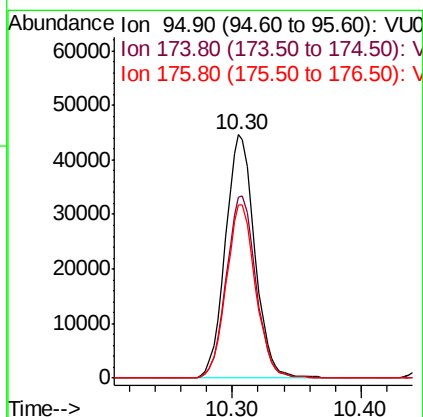
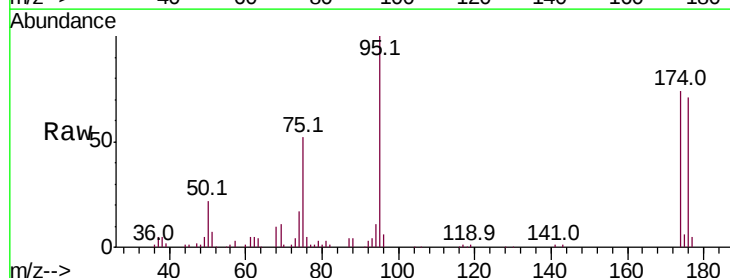
Instrument :
 MSVOA_U
 ClientSampleId :
 VU1211WBS01

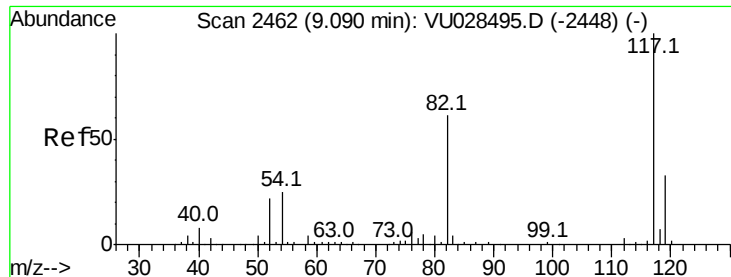
Tot Ion:107 Resp: 21936
 Ion Ratio Lower Upper
 107 100
 109 95.3 74.5 111.7



#62
 4-Bromofluorobenzene
 Concen: 51.828 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. -0.00 min
 Lab File: VU028549.D
 Acq: 10 Dec 2018 14:27

Tgt Ion: 95 Resp: 70452
 Ion Ratio Lower Upper
 95 100
 174 75.1 0.0 150.4
 176 71.0 0.0 145.2

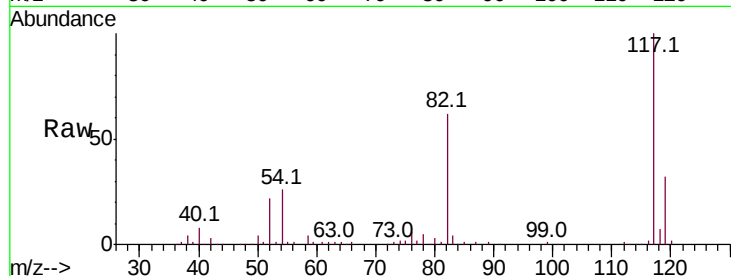




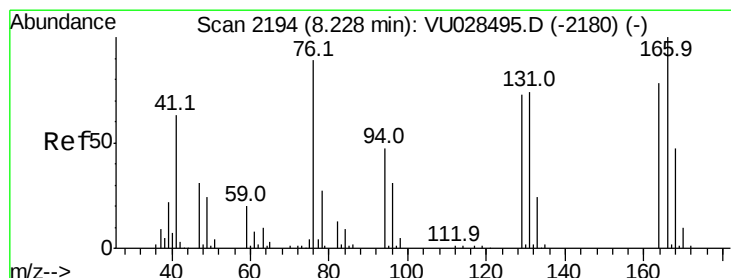
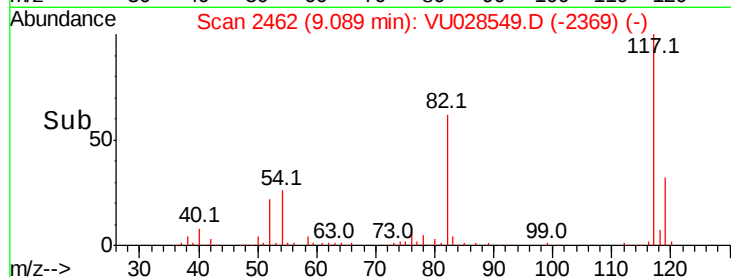
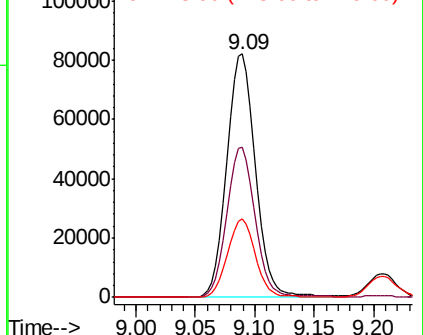
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028549.D
Acq: 10 Dec 2018 14:27

Instrument :
MSVOA_U
ClientSampleId :
VU1211WBS01

Tot Ion:117 Resp: 137867
Ion Ratio Lower Upper
117 100
82 61.7 48.9 73.3
119 32.1 26.2 39.4

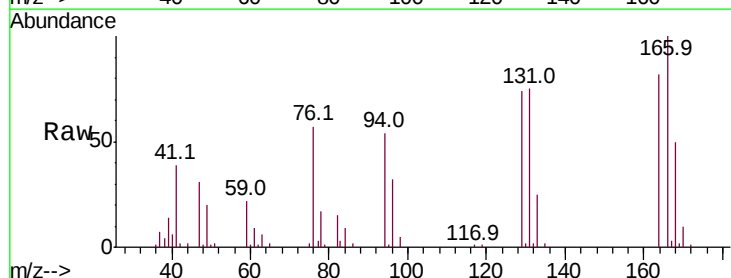


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

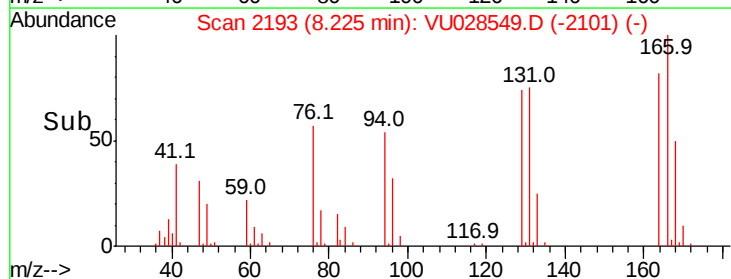
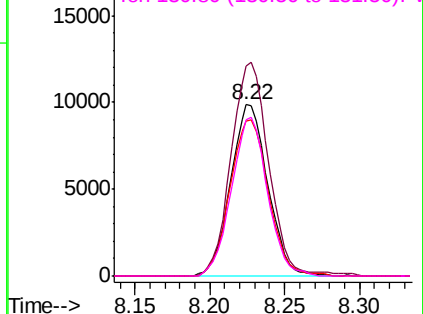


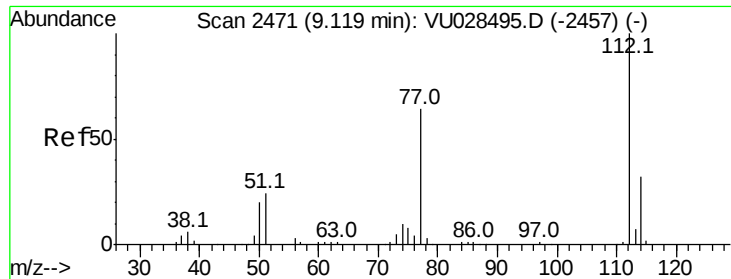
#64
Tetrachloroethene
Concen: 18.557 ug/l
RT: 8.22 min Scan# 2193
Delta R.T. -0.00 min
Lab File: VU028549.D
Acq: 10 Dec 2018 14:27

Tgt Ion:164 Resp: 17065
Ion Ratio Lower Upper
164 100
166 122.5 101.9 152.9
129 90.5 74.9 112.3
131 91.4 75.4 113.0



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

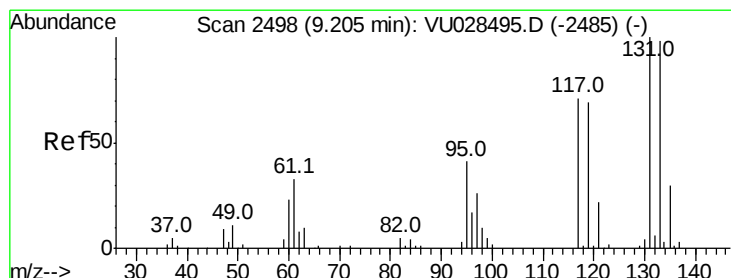
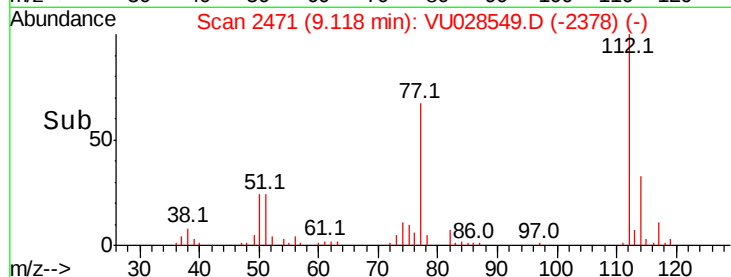
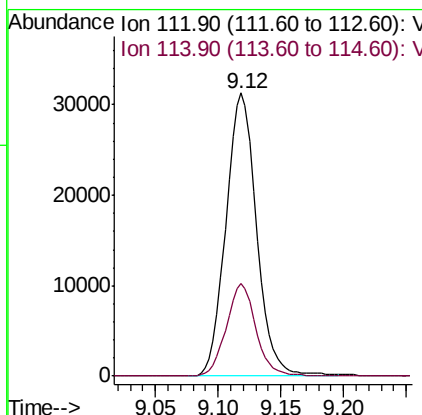
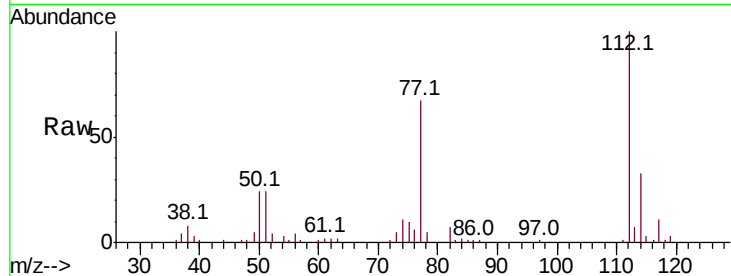




#65
Chlorobenzene
Concen: 18.074 ug/l
RT: 9.12 min Scan# 2471
Delta R.T. -0.00 min
Lab File: VU028549.D
Acq: 10 Dec 2018 14:27

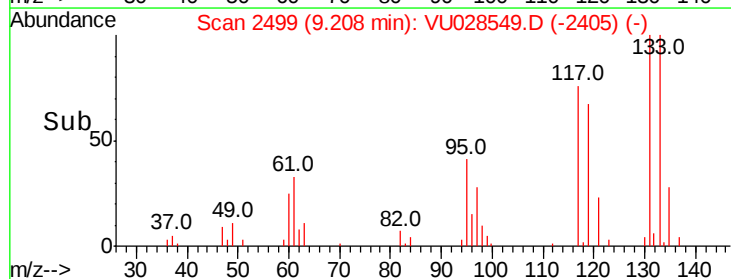
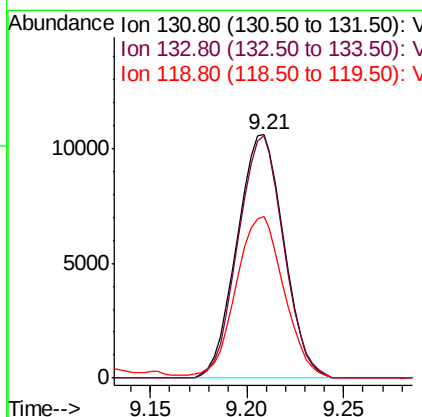
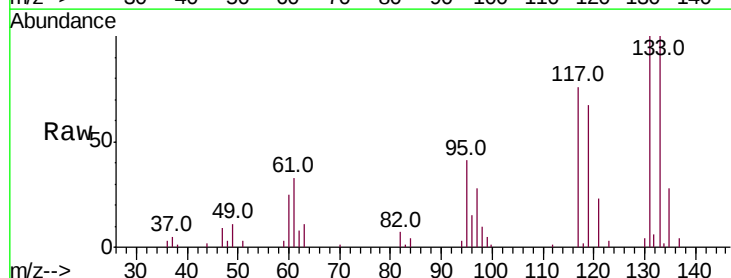
Instrument :
MSVOA_U
ClientSampleId :
VU1211WBS01

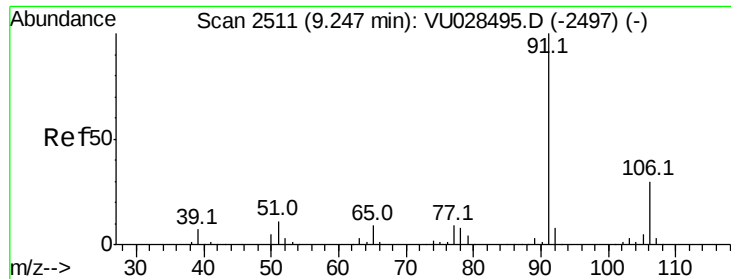
Tot Ion:112 Resp: 53097
Ion Ratio Lower Upper
112 100
114 32.6 25.3 37.9



#66
1,1,1,2-Tetrachloroethane
Concen: 19.075 ug/l
RT: 9.21 min Scan# 2499
Delta R.T. 0.00 min
Lab File: VU028549.D
Acq: 10 Dec 2018 14:27

Tgt Ion:131 Resp: 17895
Ion Ratio Lower Upper
131 100
133 96.9 48.0 144.0
119 68.2 34.6 103.9

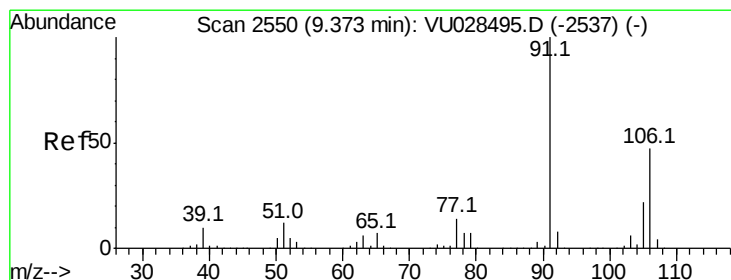
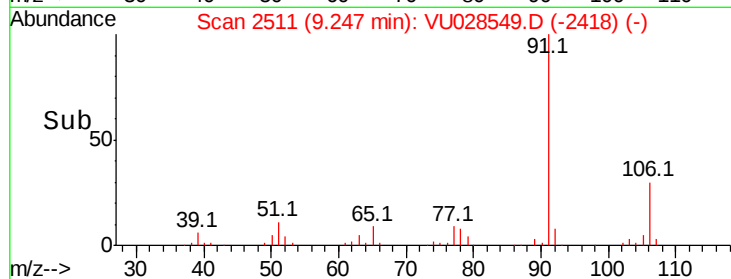
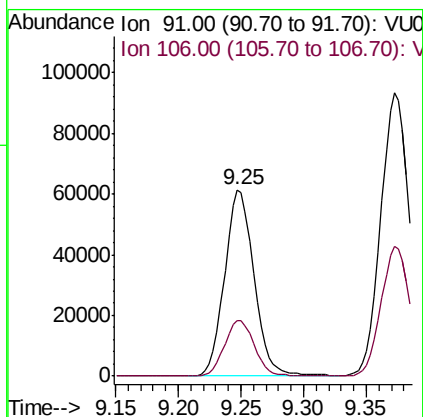
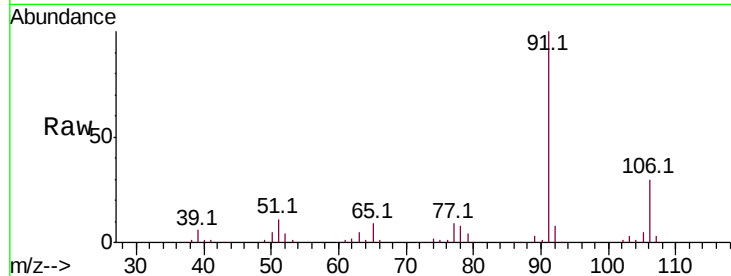




#67
Ethyl Benzene
Concen: 18.519 ug/l
RT: 9.25 min Scan# 2511
Delta R.T. -0.00 min
Lab File: VU028549.D
Acq: 10 Dec 2018 14:27

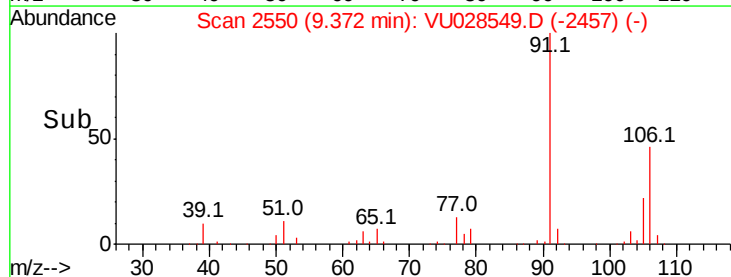
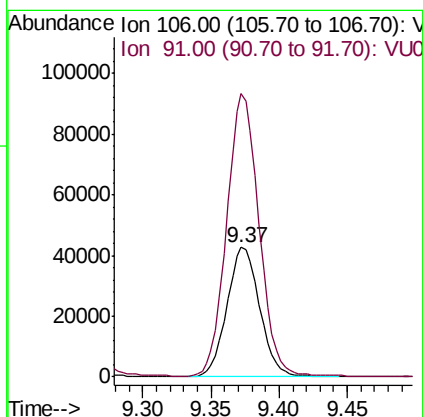
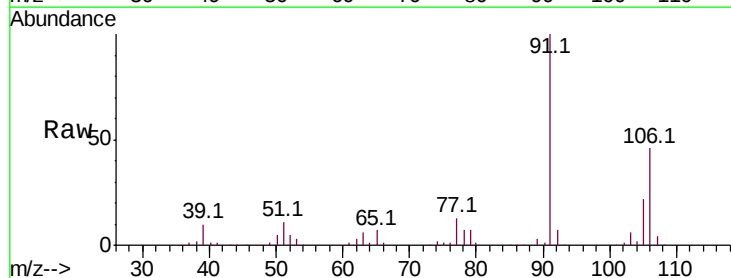
Instrument :
MSVOA_U
ClientSampleId :
VU1211WBS01

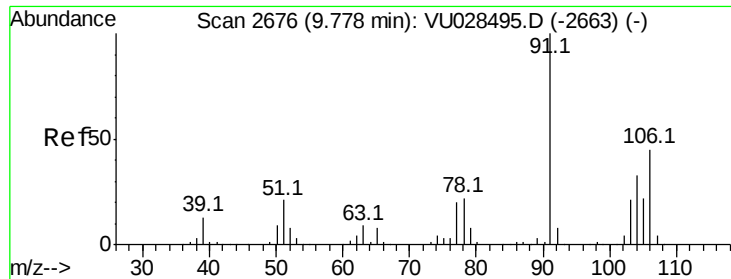
Tot Ion: 91 Resp: 100016
Ion Ratio Lower Upper
91 100
106 30.1 24.1 36.1



#68
m/p-Xylenes
Concen: 36.386 ug/l
RT: 9.37 min Scan# 2550
Delta R.T. -0.00 min
Lab File: VU028549.D
Acq: 10 Dec 2018 14:27

Tgt Ion: 106 Resp: 71504
Ion Ratio Lower Upper
106 100
91 216.4 167.4 251.0

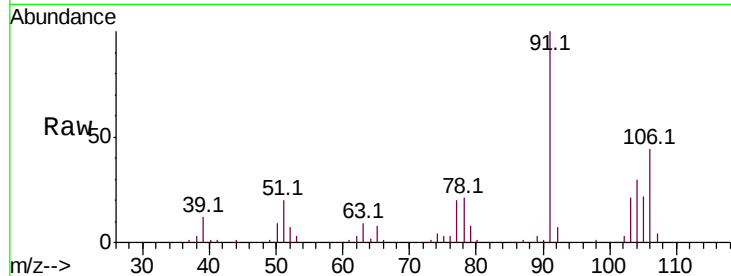




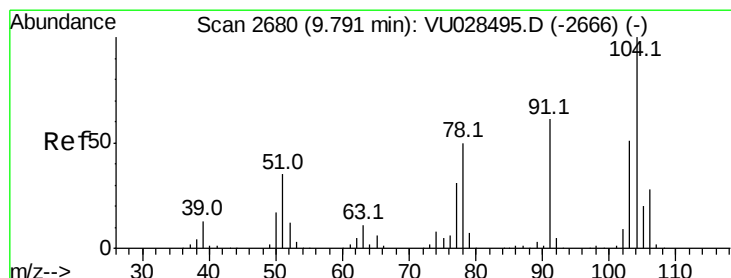
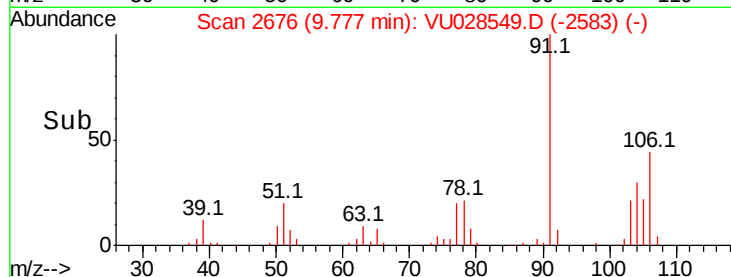
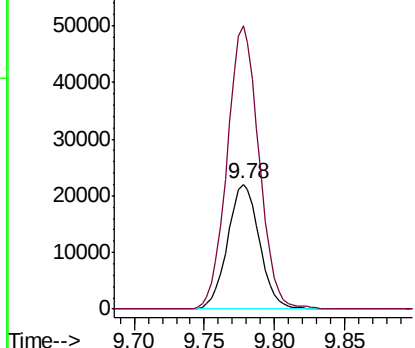
#69
o-Xylene
Concen: 18.277 ug/l
RT: 9.78 min Scan# 2676
Delta R.T. -0.00 min
Lab File: VU028549.D
Acq: 10 Dec 2018 14:27

Instrument :
MSVOA_U
ClientSampleId :
VU1211WBS01

Tot Ion:106 Resp: 34904
Ion Ratio Lower Upper
106 100
91 226.5 111.3 334.0

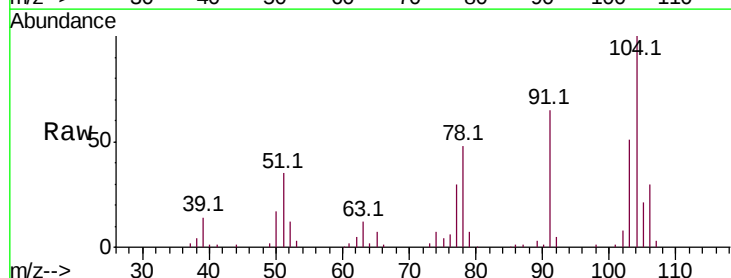


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

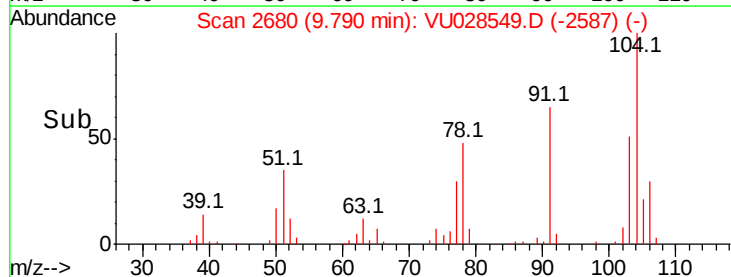
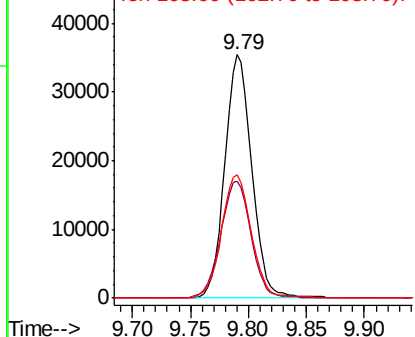


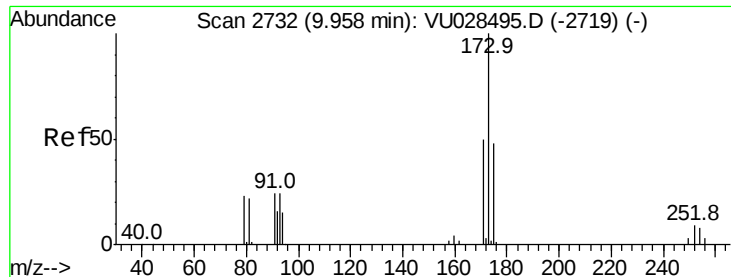
#70
Styrene
Concen: 18.015 ug/l
RT: 9.79 min Scan# 2680
Delta R.T. -0.00 min
Lab File: VU028549.D
Acq: 10 Dec 2018 14:27

Tgt Ion:104 Resp: 56934
Ion Ratio Lower Upper
104 100
78 54.4 43.0 64.6
103 55.8 44.2 66.4



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 18.841 ug/l

RT: 9.96 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

Instrument :

MSVOA_U

ClientSampleId :

VU1211WBS01

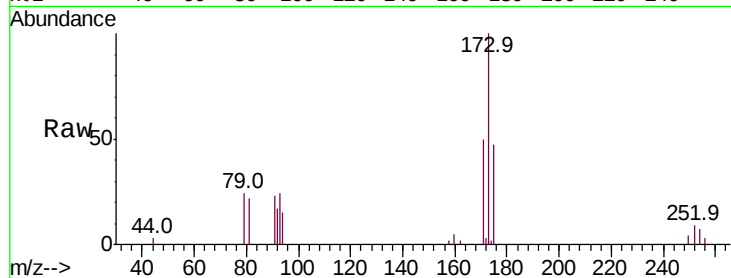
Tot Ion:173 Resp: 15036

Ion Ratio Lower Upper

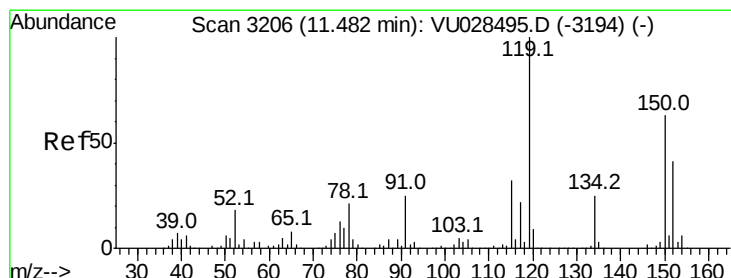
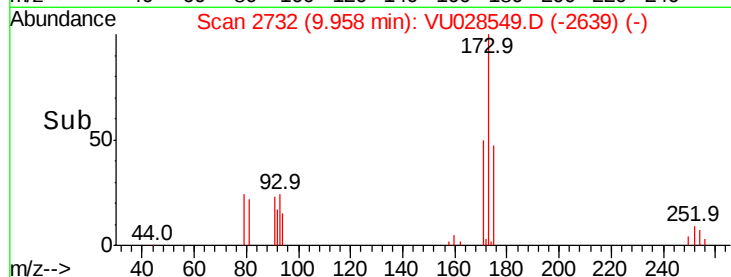
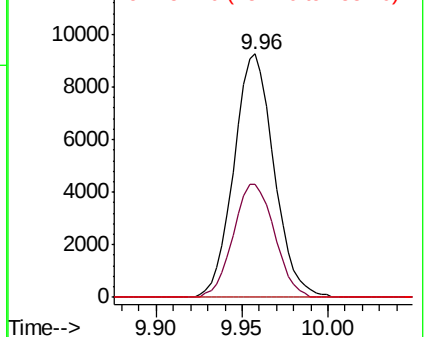
173 100

175 47.7 23.9 71.8

254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

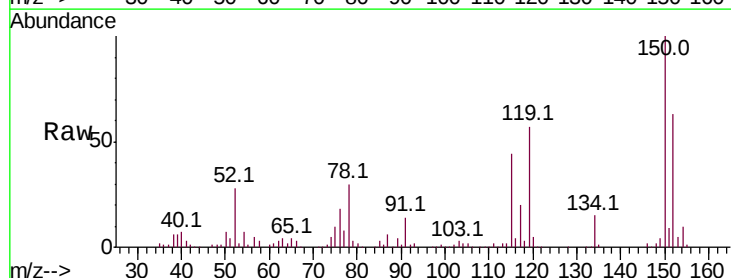
Tgt Ion:152 Resp: 67316

Ion Ratio Lower Upper

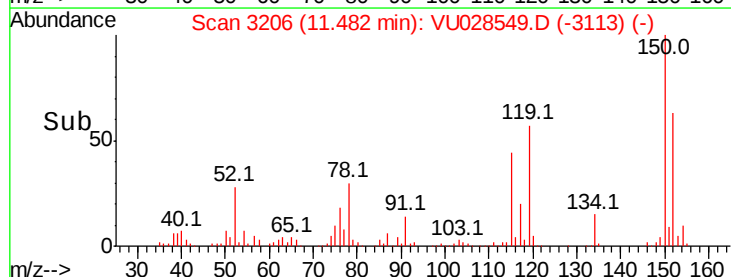
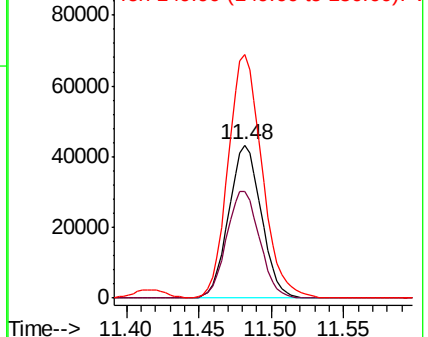
152 100

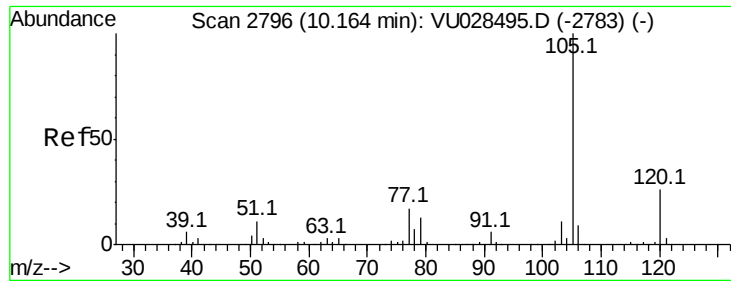
115 71.2 42.7 128.1

150 166.7 0.0 346.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 17.920 ug/l

RT: 10.16 min Scan# 2796

Delta R.T. -0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

Instrument :

MSVOA_U

ClientSampleId :

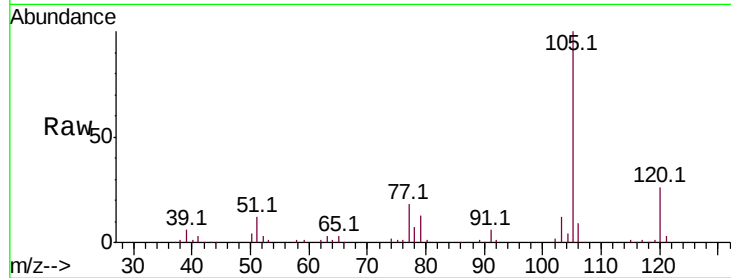
VU1211WBS01

Tot Ion:105 Resp: 92562

Ion Ratio Lower Upper

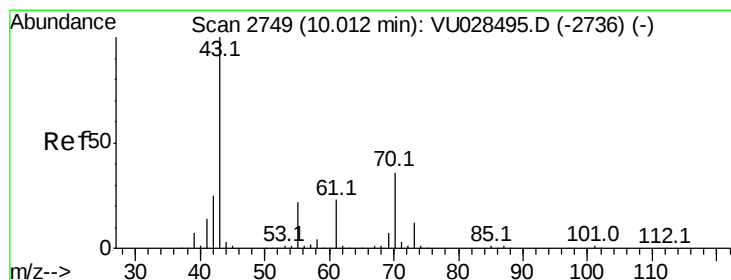
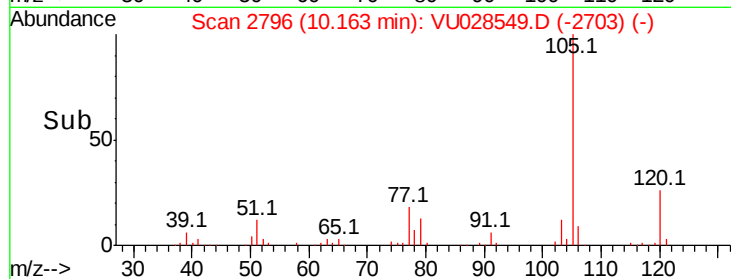
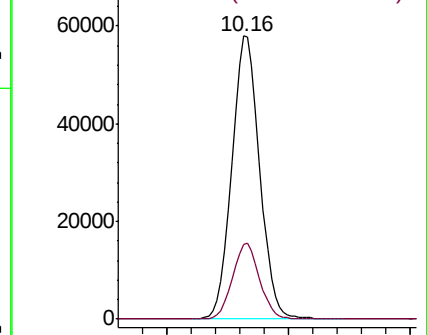
105 100

120 26.0 12.9 38.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 18.078 ug/l

RT: 10.01 min Scan# 2749

Delta R.T. -0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

Tgt Ion: 43 Resp: 53863

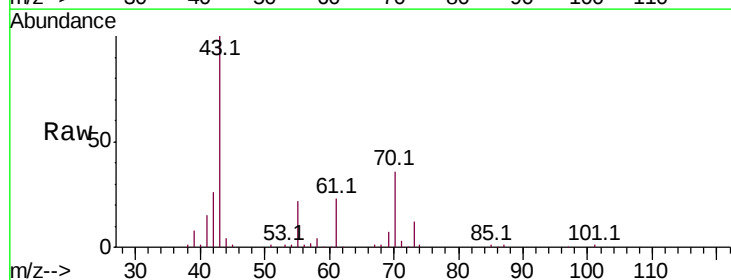
Ion Ratio Lower Upper

43 100

70 35.7 29.3 43.9

55 23.1 18.0 27.0

61 22.6 18.3 27.5

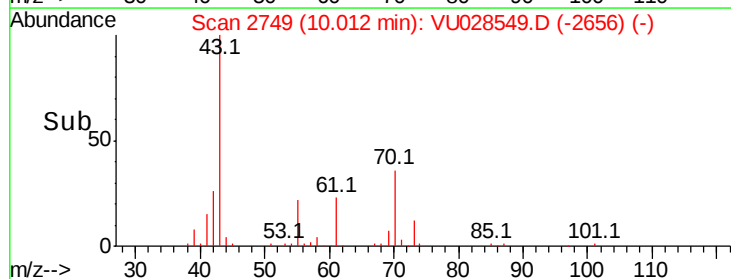
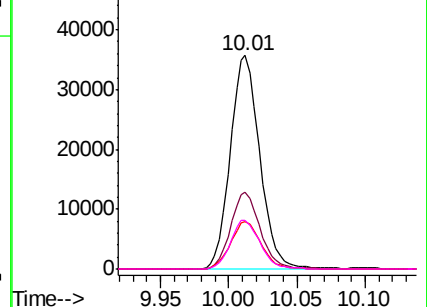


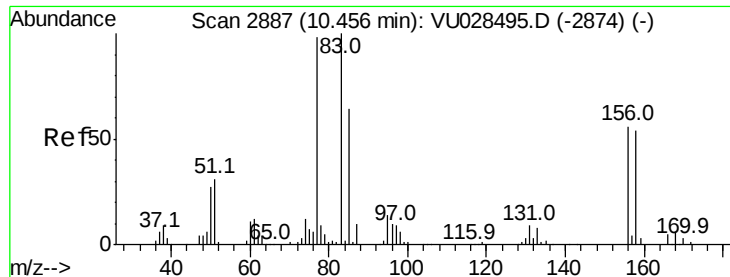
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0





#75

1,1,2,2-Tetrachloroethane

Concen: 18.666 ug/l

RT: 10.46 min Scan# 2887

Delta R.T. -0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

Instrument :

MSVOA_U

ClientSampleId :

VU1211WBS01

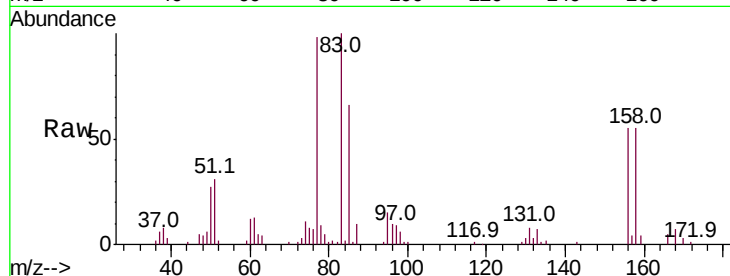
Tot Ion: 83 Resp: 37038

Ion Ratio Lower Upper

83 100

131 7.8 4.2 12.4

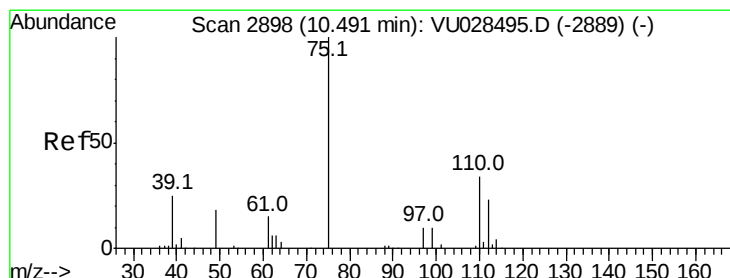
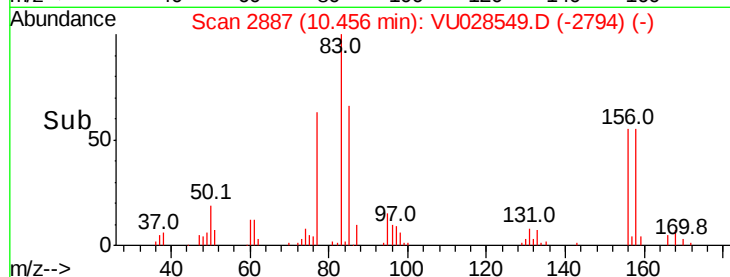
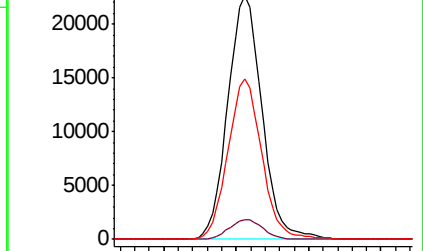
85 65.1 31.8 95.4



Abundance Ion 82.90 (82.60 to 83.60): VU028495.D (-2874) (-)

Ion 130.80 (130.50 to 131.50): VU028495.D (-2874) (-)

Ion 84.90 (84.60 to 85.60): VU028495.D (-2874) (-)



#76

1,2,3-Trichloropropane

Concen: 26.170 ug/l

RT: 10.49 min Scan# 2898

Delta R.T. -0.00 min

Lab File: VU028549.D

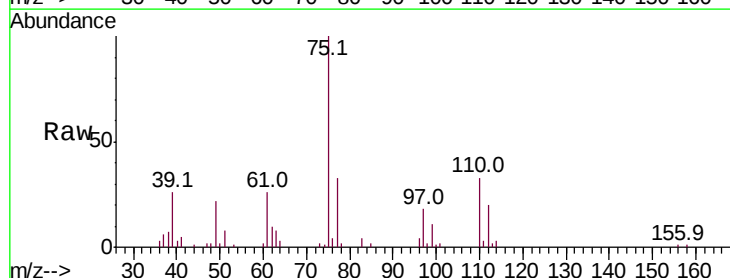
Acq: 10 Dec 2018 14:27

Tgt Ion: 75 Resp: 44984

Ion Ratio Lower Upper

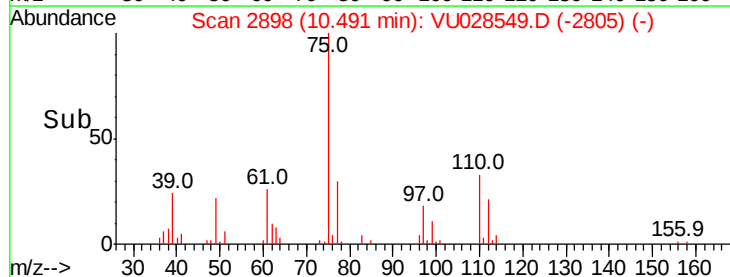
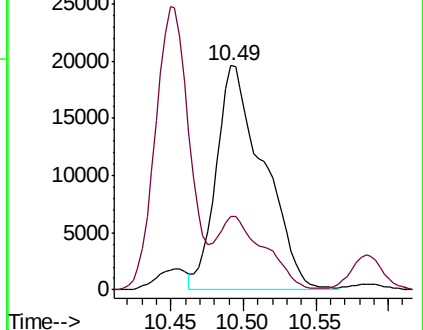
75 100

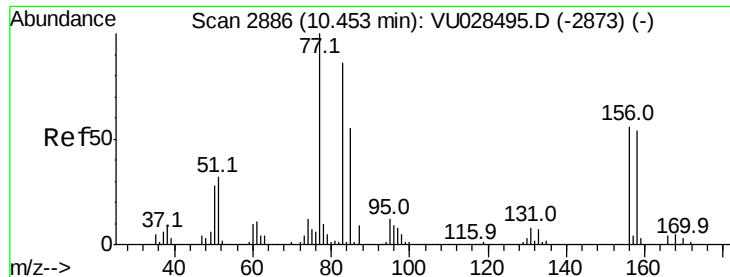
77 31.2 20.8 62.4



Abundance Ion 74.90 (74.60 to 75.60): VU028495.D (-2889) (-)

Ion 77.00 (76.70 to 77.70): VU028495.D (-2889) (-)





#77

Bromobenzene

Concen: 18.334 ug/l

RT: 10.45 min Scan# 2886

Delta R.T. -0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

Instrument :

MSVOA_U

ClientSampleId :

VU1211WBS01

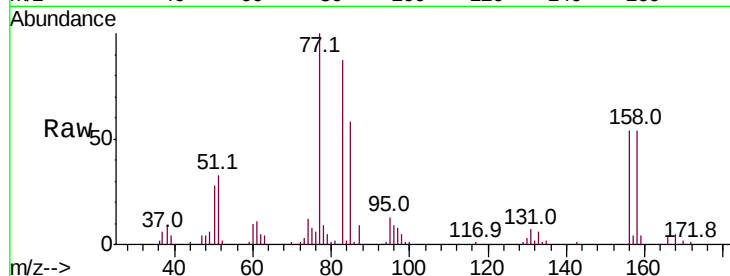
Tot Ion:156 Resp: 22148

Ion Ratio Lower Upper

156 100

77 181.5 92.4 277.2

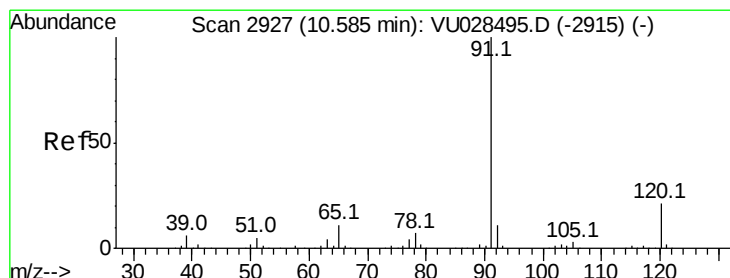
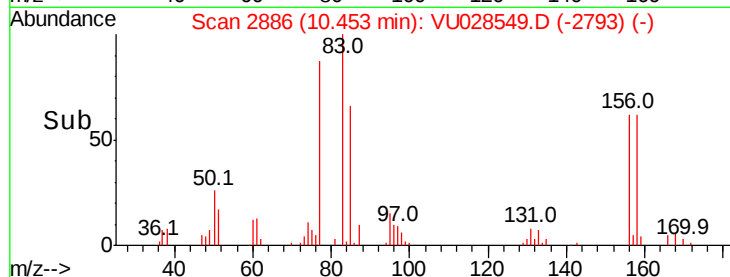
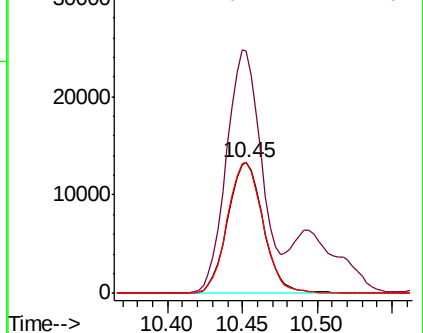
158 99.6 48.4 145.3



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VU0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 18.267 ug/l

RT: 10.58 min Scan# 2927

Delta R.T. -0.00 min

Lab File: VU028549.D

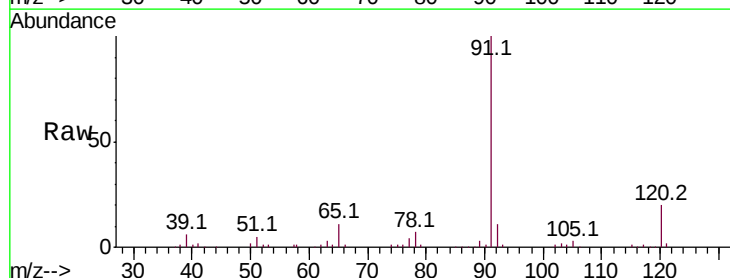
Acq: 10 Dec 2018 14:27

Tgt Ion: 91 Resp: 117245

Ion Ratio Lower Upper

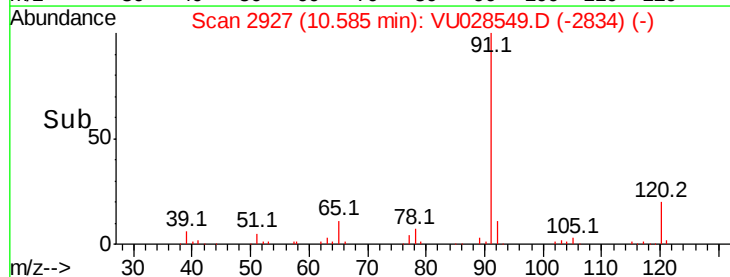
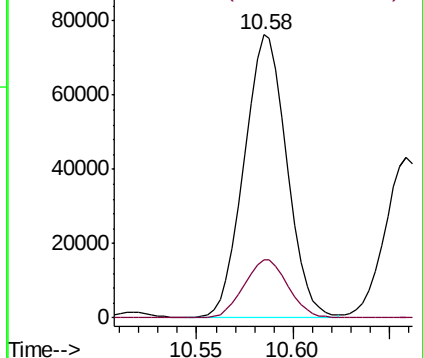
91 100

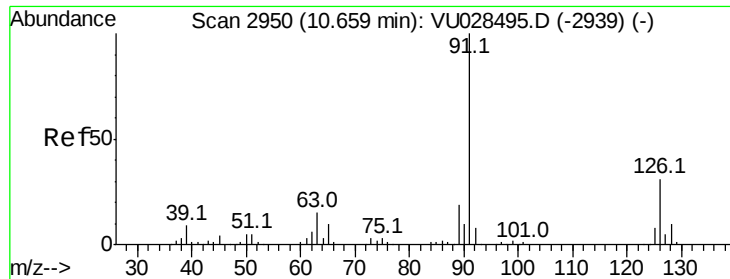
120 21.1 10.6 31.8



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 120.00 (119.70 to 120.70): V

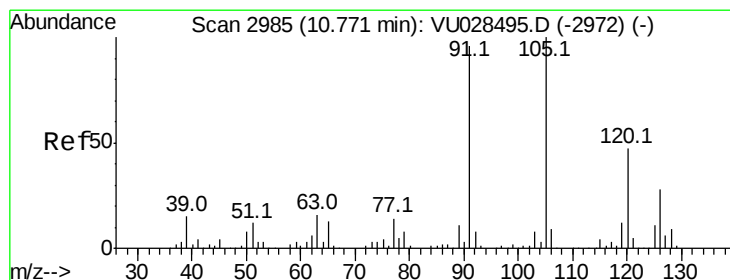
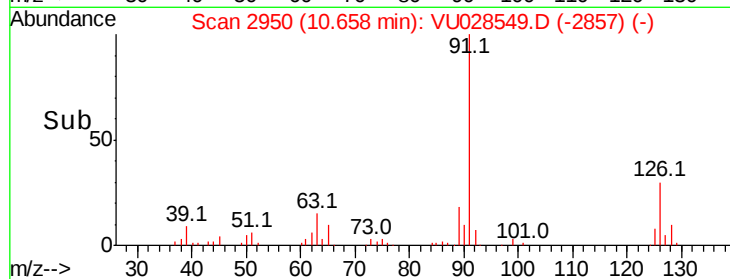
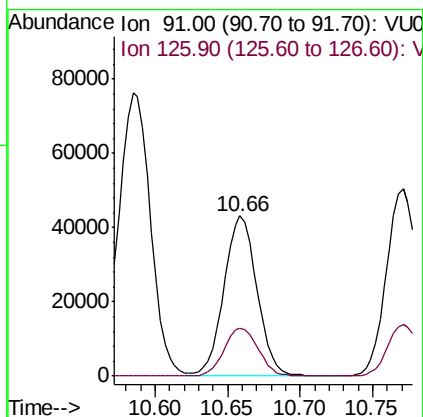
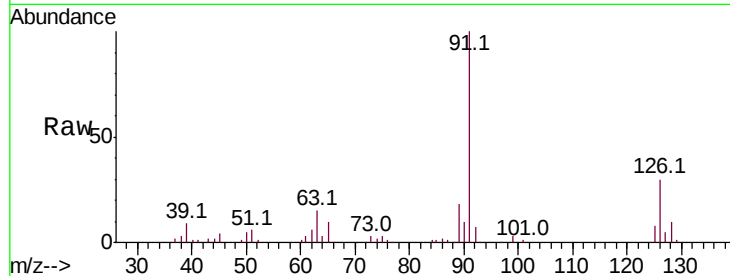




#79
 2-Chlorotoluene
 Concen: 18.421 ug/l
 RT: 10.66 min Scan# 2950
 Delta R.T. -0.00 min
 Lab File: VU028549.D
 Acq: 10 Dec 2018 14:27

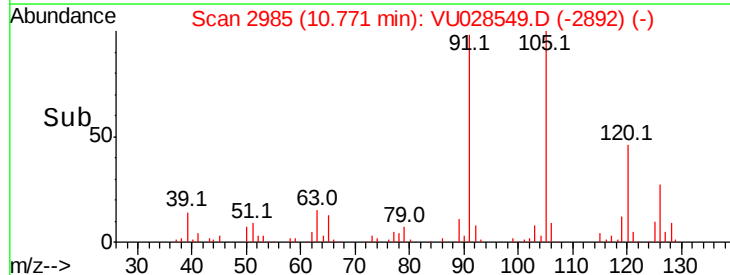
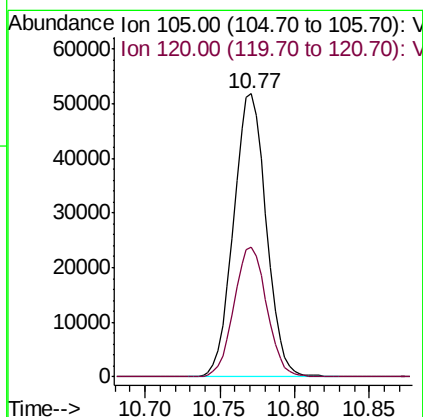
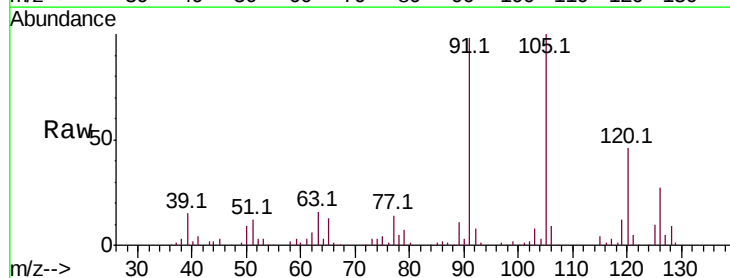
Instrument :
 MSVOA_U
 ClientSampleId :
 VU1211WBS01

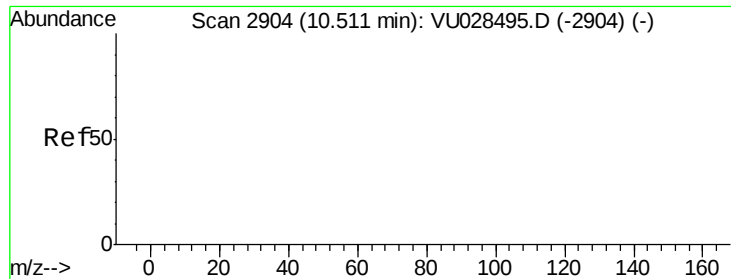
Tot Ion: 91 Resp: 68106
 Ion Ratio Lower Upper
 91 100
 126 31.2 15.6 46.8



#80
 1,3,5-Trimethylbenzene
 Concen: 18.428 ug/l
 RT: 10.77 min Scan# 2985
 Delta R.T. -0.00 min
 Lab File: VU028549.D
 Acq: 10 Dec 2018 14:27

Tgt Ion: 105 Resp: 78793
 Ion Ratio Lower Upper
 105 100
 120 46.0 23.7 71.1





#81

trans-1,4-Dichloro-2-butene

Concen: 64.193 ug/l

RT: 10.49 min Scan# 2898

Delta R.T. -0.02 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

Instrument :

MSVOA_U

ClientSampleId :

VU1211WBS01

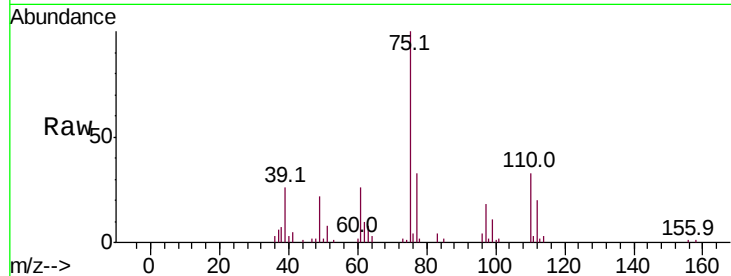
Tot Ion: 75 Resp: 44984

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

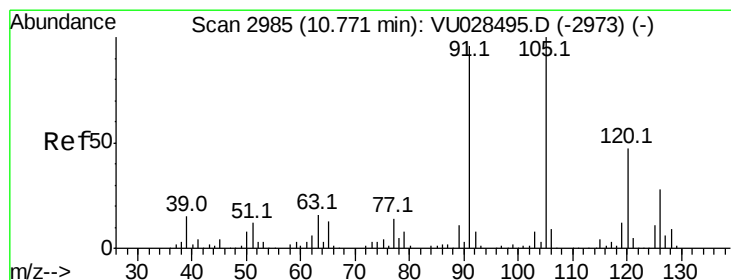
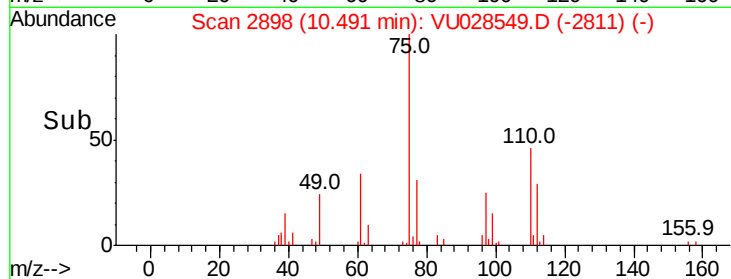
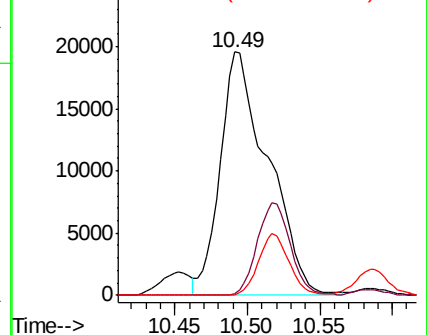
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0



#82

4-Chlorotoluene

Concen: 17.731 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. -0.00 min

Lab File: VU028549.D

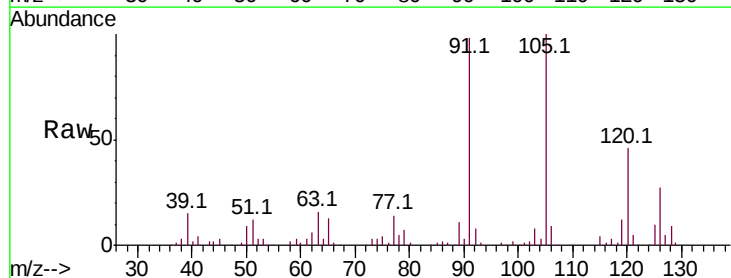
Acq: 10 Dec 2018 14:27

Tgt Ion: 91 Resp: 77685

Ion Ratio Lower Upper

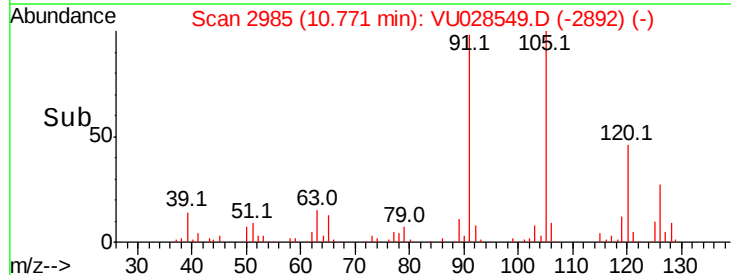
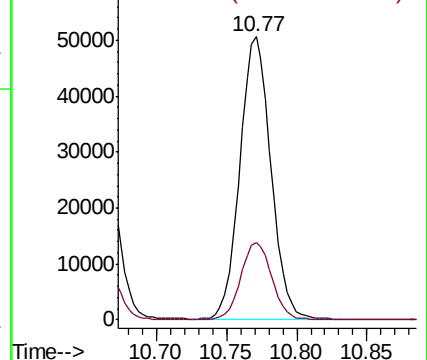
91 100

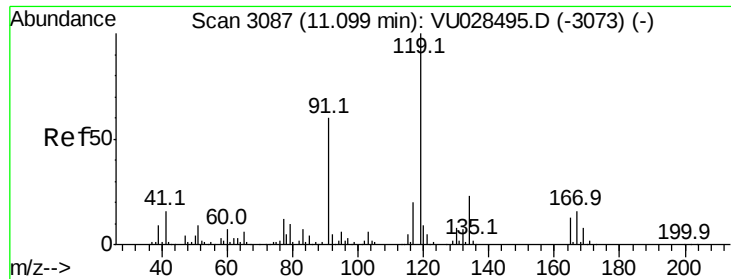
126 27.6 14.1 42.3



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 125.90 (125.60 to 126.60): V

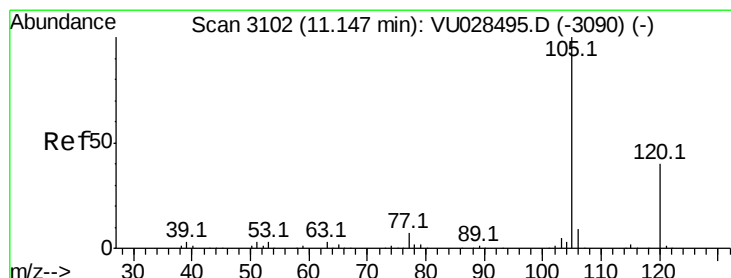
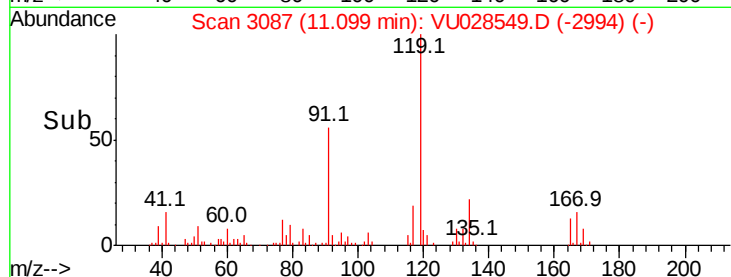
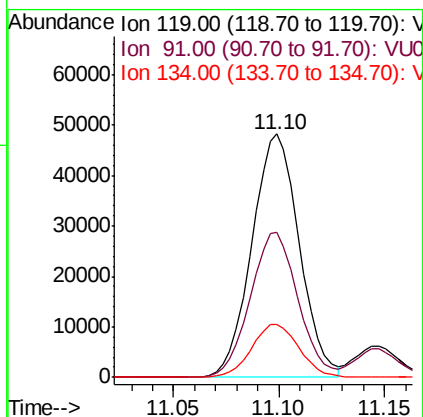
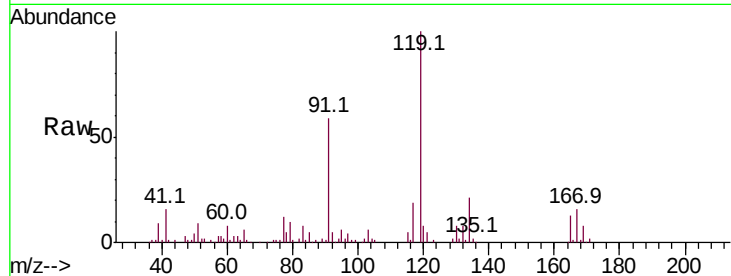




#83
tert-Butylbenzene
Concen: 18.264 ug/l
RT: 11.10 min Scan# 3087
Delta R.T. -0.00 min
Lab File: VU028549.D
Acq: 10 Dec 2018 14:27

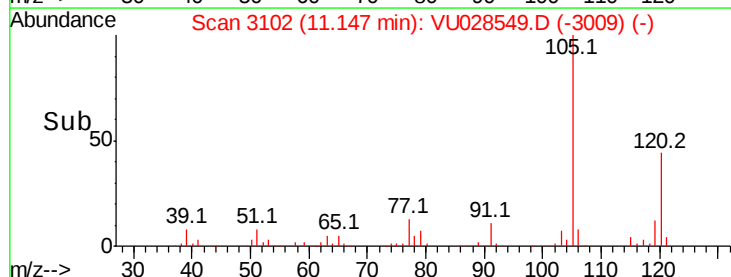
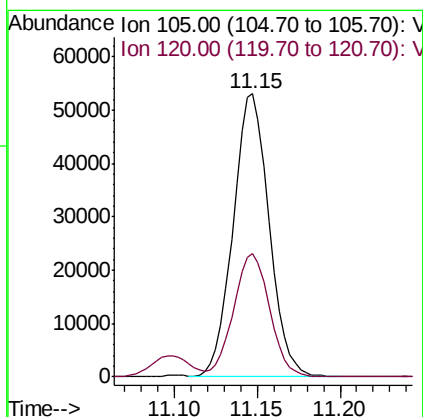
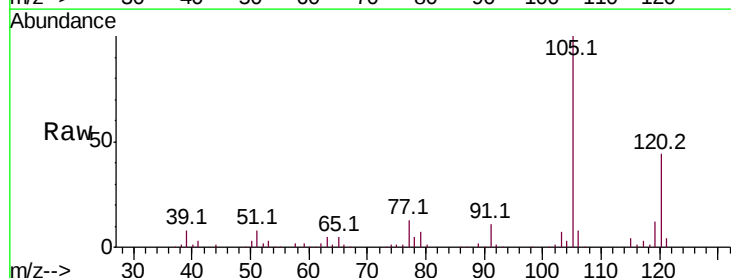
Instrument :
MSVOA_U
ClientSampleId :
VU1211WBS01

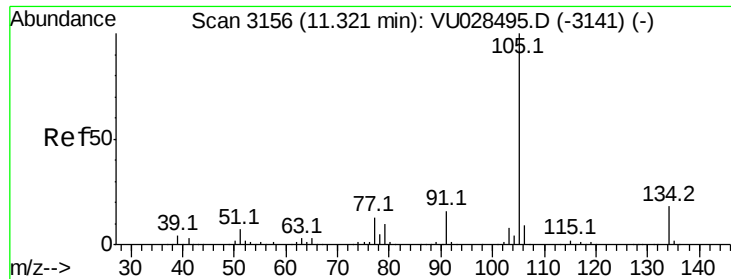
Tot Ion:119 Resp: 75271
Ion Ratio Lower Upper
119 100
91 60.1 30.3 91.0
134 21.7 11.2 33.5



#84
1,2,4-Trimethylbenzene
Concen: 18.167 ug/l
RT: 11.15 min Scan# 3102
Delta R.T. -0.00 min
Lab File: VU028549.D
Acq: 10 Dec 2018 14:27

Tgt Ion:105 Resp: 80055
Ion Ratio Lower Upper
105 100
120 43.8 21.8 65.4





#85

sec-Butylbenzene

Concen: 18.508 ug/l

RT: 11.32 min Scan# 3156

Delta R.T. -0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

Instrument :

MSVOA_U

ClientSampleId :

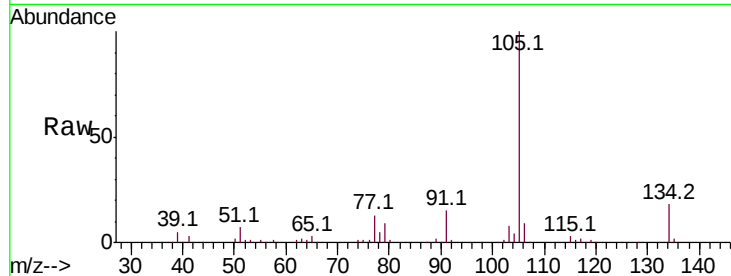
VU1211WBS01

Tot Ion:105 Resp: 97988

Ion Ratio Lower Upper

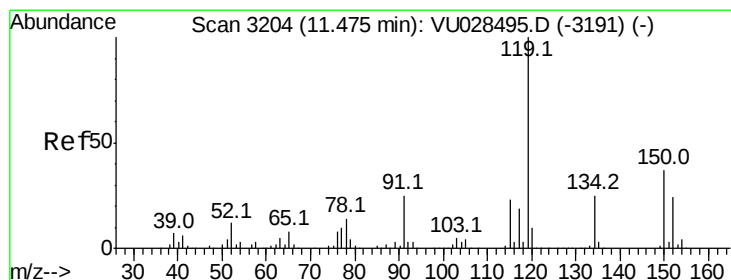
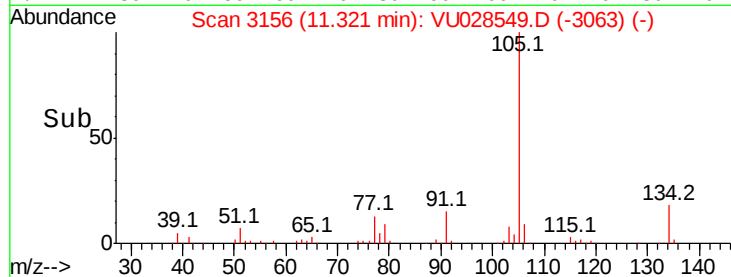
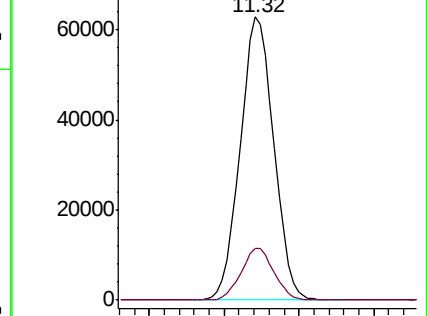
105 100

134 17.8 9.2 27.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 17.799 ug/l

RT: 11.48 min Scan# 3204

Delta R.T. -0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

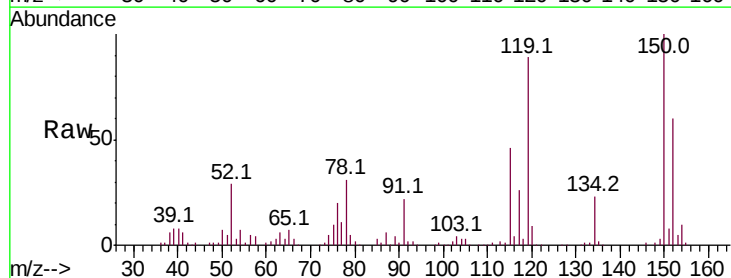
Tgt Ion:119 Resp: 80051

Ion Ratio Lower Upper

119 100

134 25.7 12.7 38.1

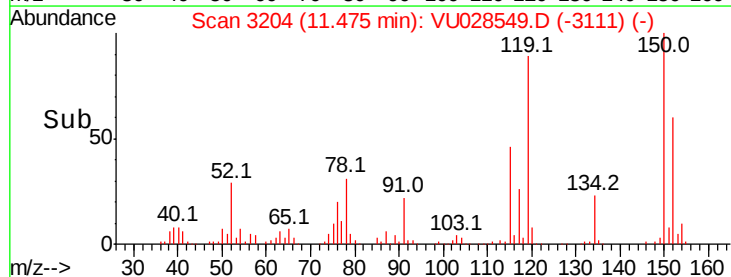
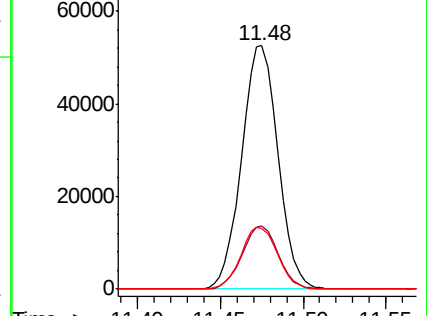
91 25.5 12.6 37.6

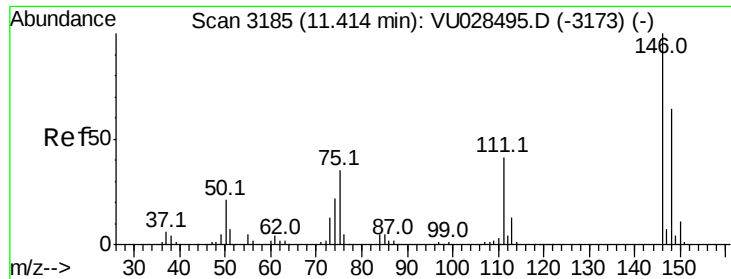


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VU0

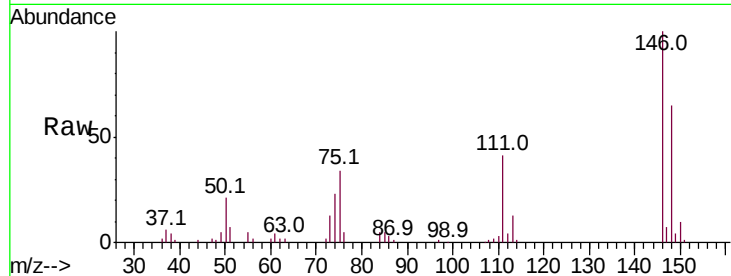




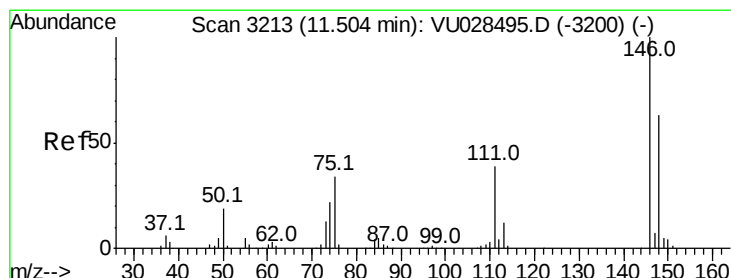
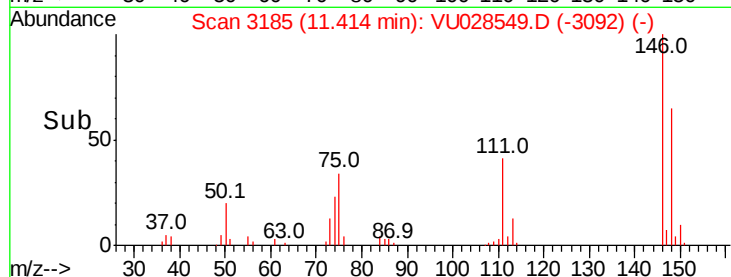
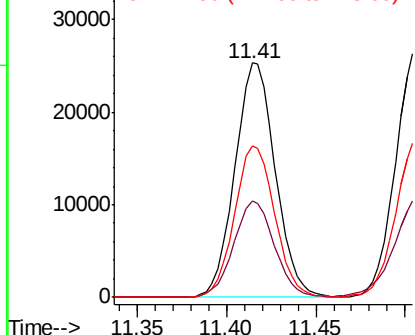
#87
 1,3-Dichlorobenzene
 Concen: 17.606 ug/l
 RT: 11.41 min Scan# 3185
 Delta R.T. -0.00 min
 Lab File: VU028549.D
 Acq: 10 Dec 2018 14:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1211WBS01

Tot Ion:146 Resp: 40161
 Ion Ratio Lower Upper
 146 100
 111 41.3 20.7 62.1
 148 64.3 31.9 95.7

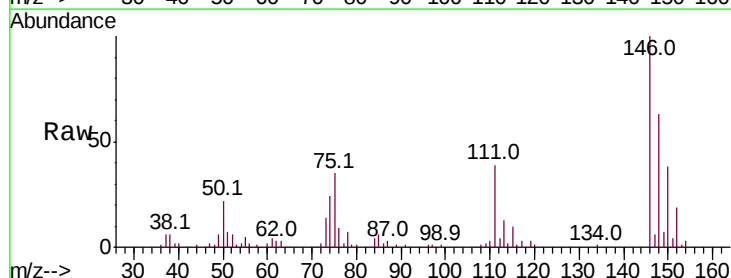


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

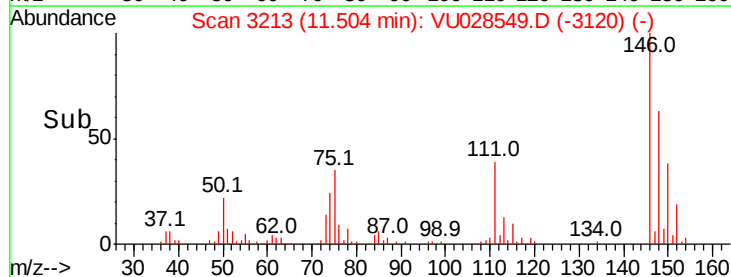
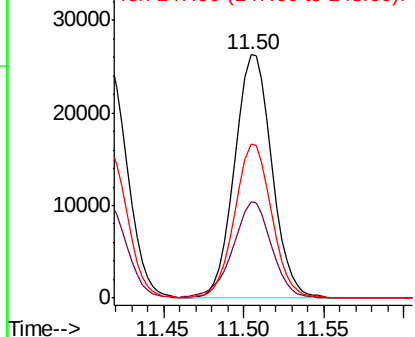


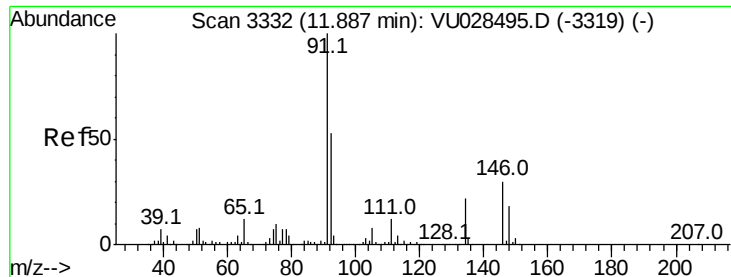
#88
 1,4-Dichlorobenzene
 Concen: 17.679 ug/l
 RT: 11.50 min Scan# 3213
 Delta R.T. -0.00 min
 Lab File: VU028549.D
 Acq: 10 Dec 2018 14:27

Tgt Ion:146 Resp: 41725
 Ion Ratio Lower Upper
 146 100
 111 41.4 20.2 60.5
 148 63.1 31.6 95.0



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

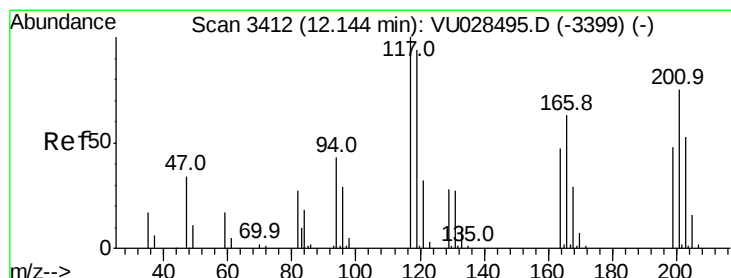
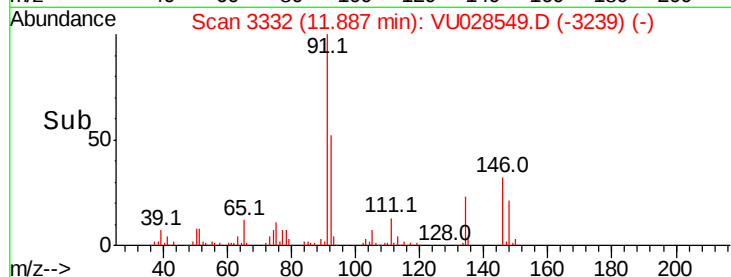
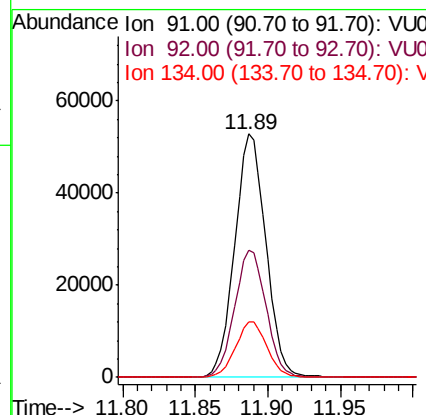
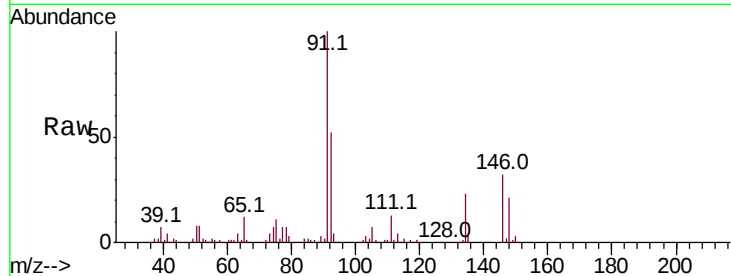




#89
n-Butylbenzene
Concen: 17.279 ug/l
RT: 11.89 min Scan# 3332
Delta R.T. -0.00 min
Lab File: VU028549.D
Acq: 10 Dec 2018 14:27

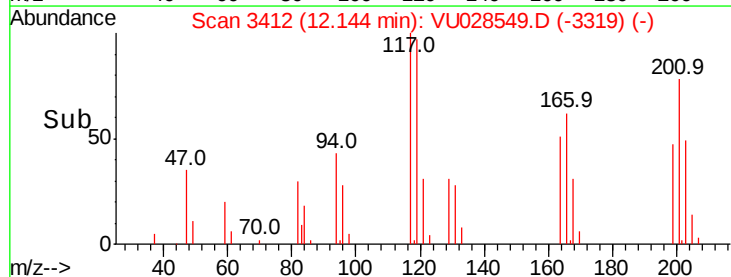
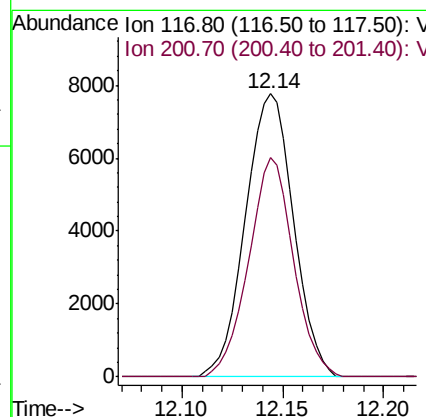
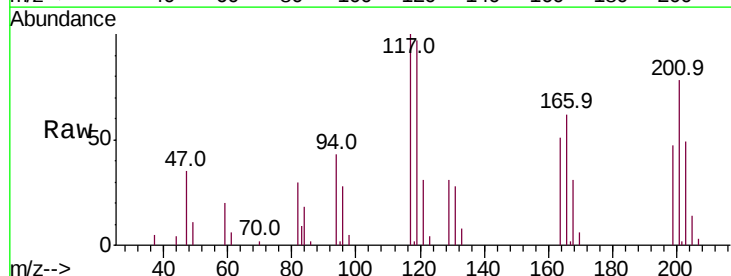
Instrument :
MSVOA_U
ClientSampleId :
VU1211WBS01

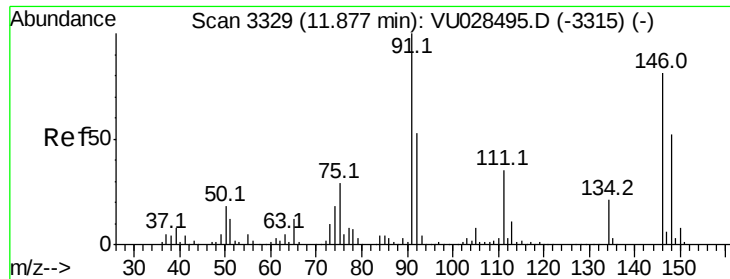
Tot Ion: 91 Resp: 78646
Ion Ratio Lower Upper
91 100
92 52.5 26.3 78.9
134 22.9 11.3 33.8



#90
Hexachloroethane
Concen: 19.068 ug/l
RT: 12.14 min Scan# 3412
Delta R.T. -0.00 min
Lab File: VU028549.D
Acq: 10 Dec 2018 14:27

Tgt Ion: 117 Resp: 12962
Ion Ratio Lower Upper
117 100
201 72.2 38.1 114.5

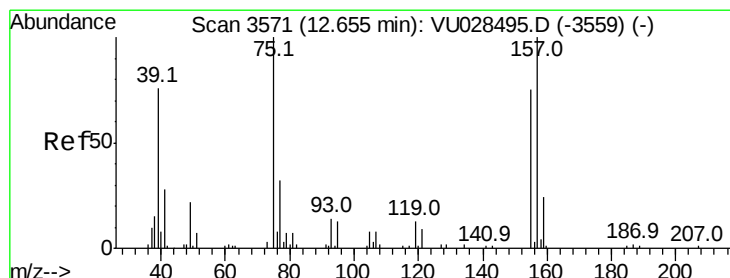
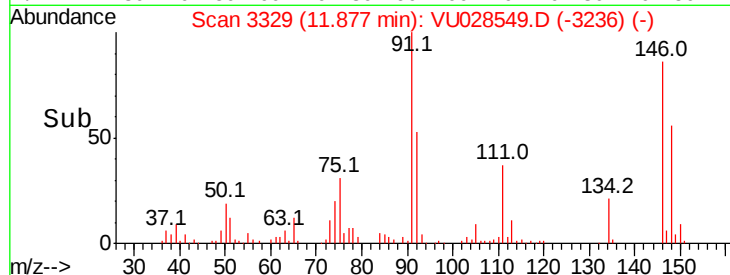
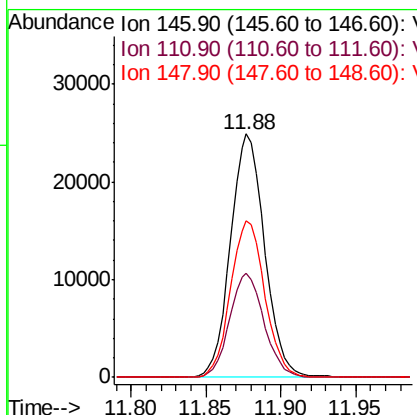
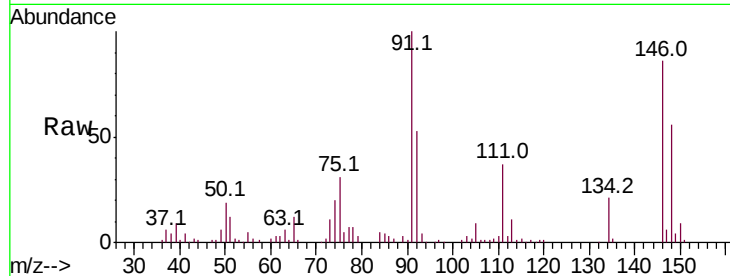




#91
 1,2-Dichlorobenzene
 Concen: 17.344 ug/l
 RT: 11.88 min Scan# 3329
 Delta R.T. -0.00 min
 Lab File: VU028549.D
 Acq: 10 Dec 2018 14:27

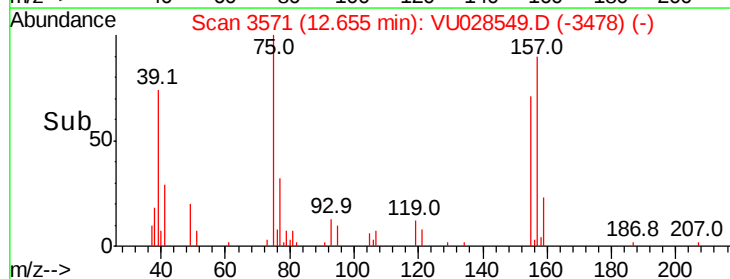
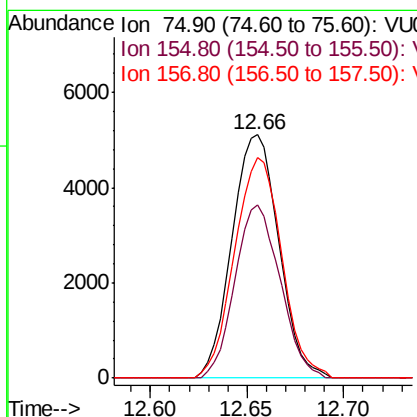
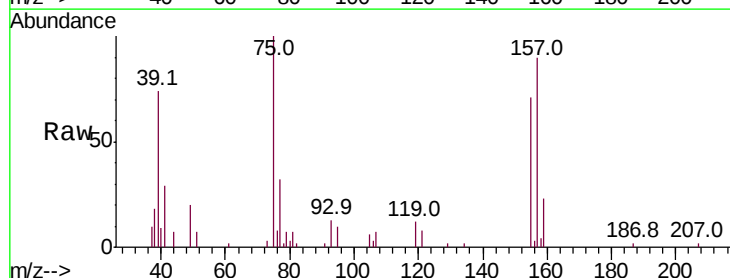
Instrument :
 MSVOA_U
 ClientSampleId :
 VU1211WBS01

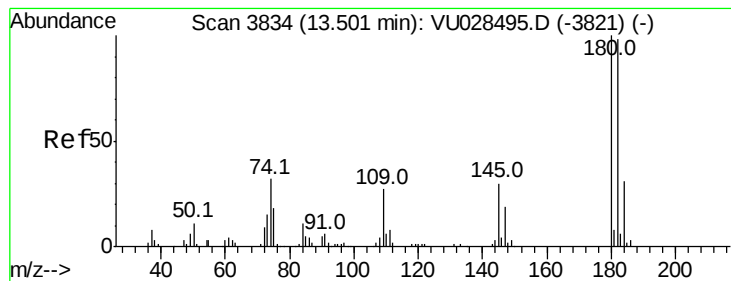
Tot Ion:146 Resp: 39574
 Ion Ratio Lower Upper
 146 100
 111 42.7 21.1 63.4
 148 64.4 31.4 94.2



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.080 ug/l
 RT: 12.66 min Scan# 3571
 Delta R.T. -0.00 min
 Lab File: VU028549.D
 Acq: 10 Dec 2018 14:27

Tgt Ion: 75 Resp: 8626
 Ion Ratio Lower Upper
 75 100
 155 68.3 38.1 114.5
 157 91.0 48.7 146.1





#93

1,2,4-Trichlorobenzene

Concen: 18.016 ug/l

RT: 13.50 min Scan# 3834

Delta R.T. -0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

Instrument :

MSVOA_U

ClientSampleId :

VU1211WBS01

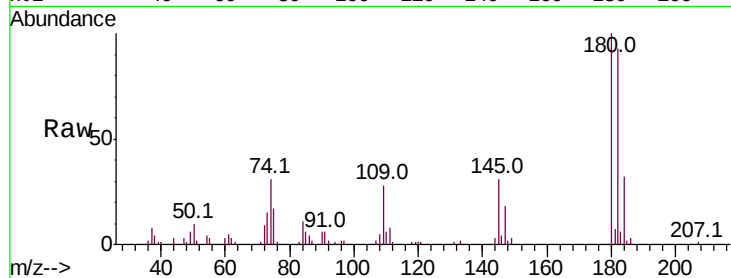
Tot Ion:180 Resp: 27387

Ion Ratio Lower Upper

180 100

182 91.1 47.9 143.8

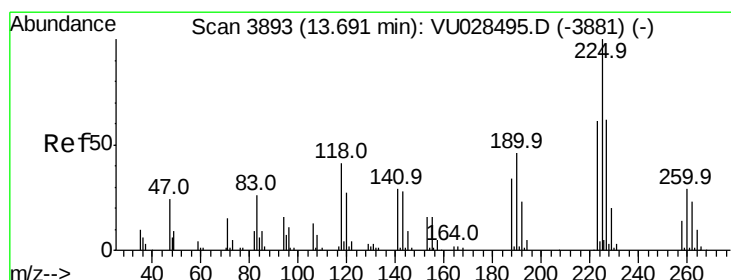
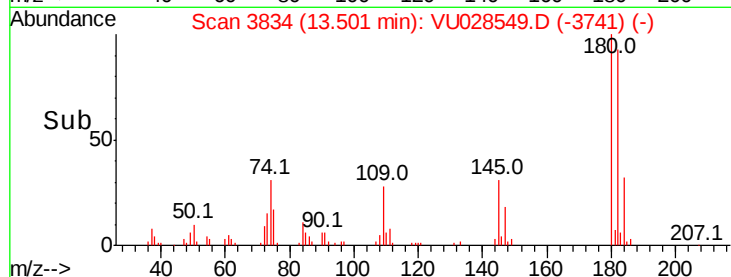
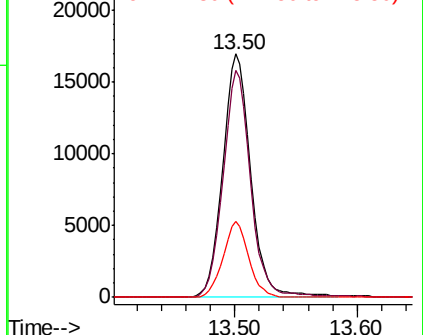
145 28.4 15.0 45.1



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: 17.619 ug/l

RT: 13.69 min Scan# 3893

Delta R.T. -0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

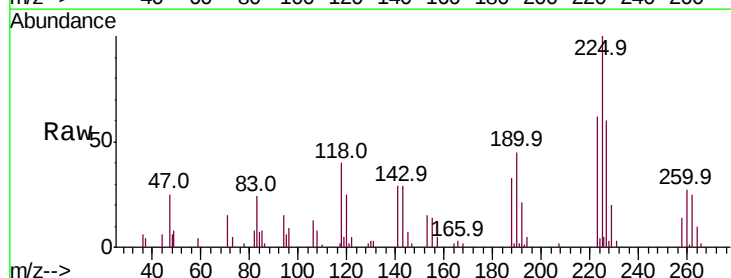
Tgt Ion:225 Resp: 13169

Ion Ratio Lower Upper

225 100

223 62.4 30.4 91.2

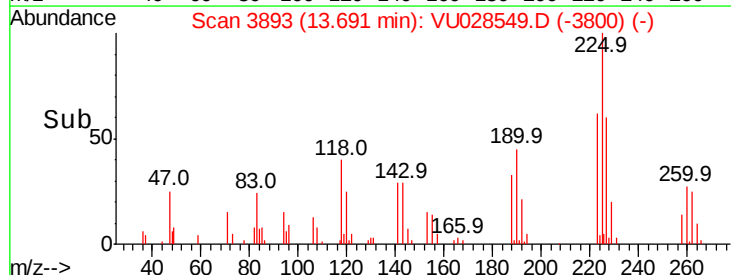
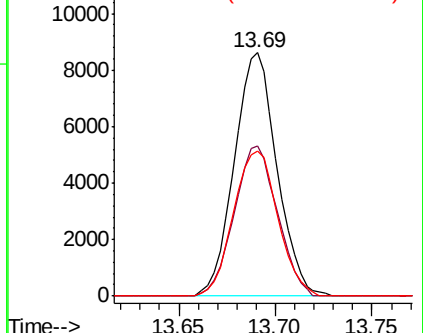
227 62.0 30.7 92.1

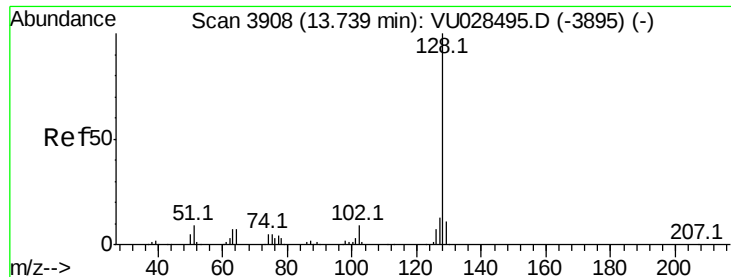


Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 16.488 ug/l

RT: 13.74 min Scan# 3909

Delta R.T. 0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

Instrument :

MSVOA_U

ClientSampleId :

VU1211WBS01

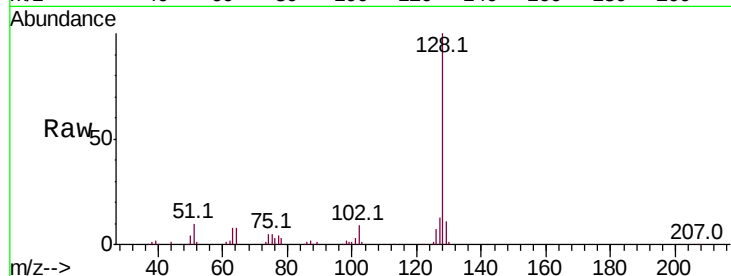
Tot Ion:128 Resp: 90280

Ion Ratio Lower Upper

128 100

127 12.6 10.4 15.6

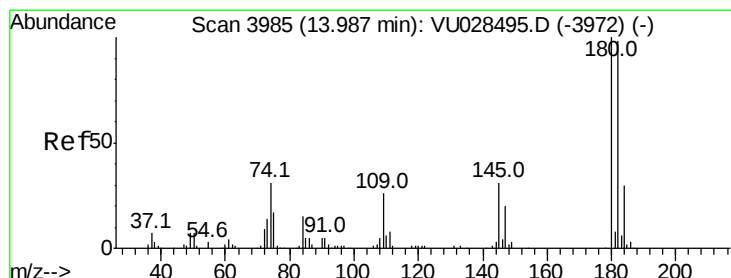
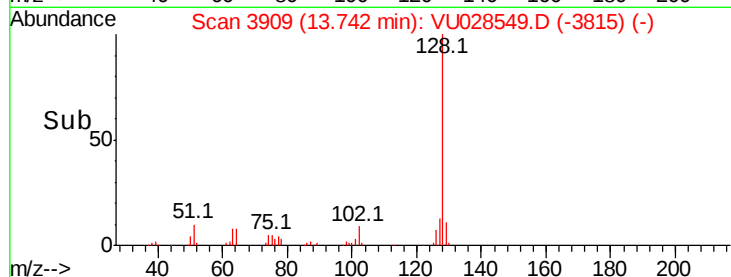
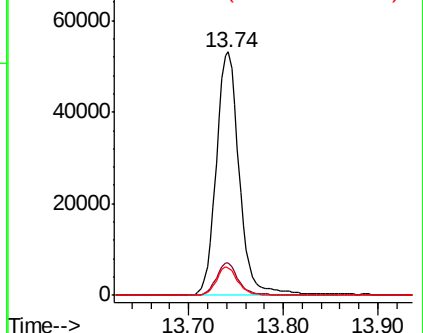
129 10.7 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 17.291 ug/l

RT: 13.99 min Scan# 3985

Delta R.T. 0.00 min

Lab File: VU028549.D

Acq: 10 Dec 2018 14:27

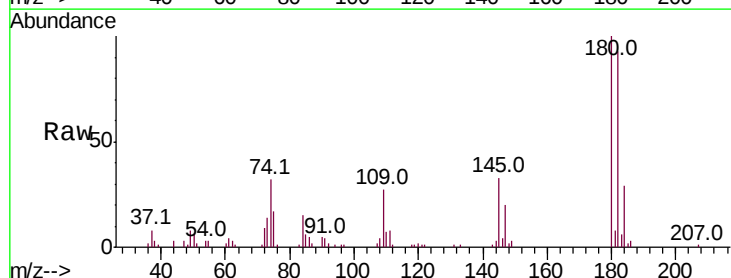
Tgt Ion:180 Resp: 26832

Ion Ratio Lower Upper

180 100

182 97.9 48.2 144.6

145 32.2 15.8 47.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

