

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U112018\
 Data File : VU028279.D
 Acq On : 20 Nov 2018 15:35
 Operator : MD/SY
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 21 06:37:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR111718WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Nov 21 06:33:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	131703	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	129279	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	60187	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	40316	4.07	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	81.40%
7) Chloroethane-d5	1.68	69	36972	4.32	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	86.40%
11) 1,1-Dichloroethene-d2	2.28	63	81810	4.15	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	83.00%
20) 2-Butanone-d5	4.20	46	162673	49.05	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	98.10%
24) Chloroform-d	4.65	84	86402	4.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.40%
26) 1,2-Dichloroethane-d4	5.31	65	44557	4.36	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.20%
32) Benzene-d6	5.34	84	160659	4.32	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.40%
36) 1,2-Dichloropropane-d6	6.33	67	59403	4.40	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	88.00%
41) Toluene-d8	7.57	98	143231	4.30	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.00%
43) trans-1,3-Dichloropropene-	7.85	79	18258	4.23	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.60%
46) 2-Hexanone-d5	8.31	63	117971	45.57	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	91.14%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	48022	4.92	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.40%
64) 1,2-Dichlorobenzene-d4	11.86	152	51420	4.59	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.21	85	49092	4.439 ug/L	98
3) Chloromethane	1.33	50	70275	4.992 ug/L	100
5) Vinyl chloride	1.40	62	64865	4.852 ug/L	94
6) Bromomethane	1.63	94	28069	4.653 ug/L	99
8) Chloroethane	1.70	64	38438	4.865 ug/L	93
9) Trichlorofluoromethane	1.89	101	74499	4.786 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	41309	4.822 ug/L	99
12) 1,1-Dichloroethene	2.29	96	39543	4.877 ug/L	91
13) Acetone	2.32	43	94922	41.615 ug/L	95
14) Carbon disulfide	2.48	76	127633	5.013 ug/L	98
15) Methyl Acetate	2.62	43	25460	4.211 ug/L	99
16) Methylene chloride	2.70	84	48208	4.719 ug/L	98
17) Methyl tert-butyl Ether	3.01	73	114745	4.711 ug/L	98
18) trans-1,2-Dichloroethene	2.98	96	43338	5.018 ug/L	92
19) 1,1-Dichloroethane	3.45	63	97123	4.849 ug/L	99
21) 2-Butanone	4.28	43	156023	42.956 ug/L	99
22) cis-1,2-Dichloroethene	4.22	96	50522	4.949 ug/L	96

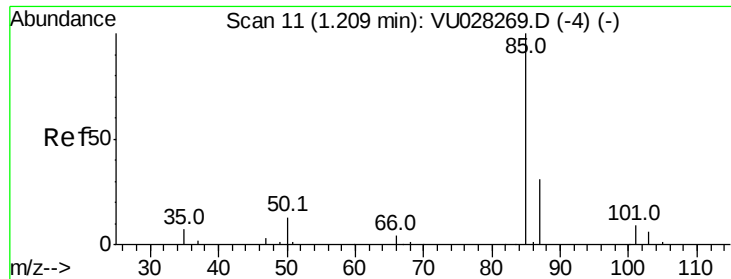
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	19086	4.777	ug/L	96
25) Chloroform	4.67	83	91264	4.211	ug/L	99
27) 1,2-Dichloroethane	5.41	62	57311	4.626	ug/L	100
29) 1,1,1-Trichloroethane	4.92	97	66425	4.558	ug/L	95
30) Cyclohexane	4.99	56	82992	4.351	ug/L	96
31) Carbon tetrachloride	5.13	117	53897	4.507	ug/L	100
33) Benzene	5.39	78	196874	4.616	ug/L	100
34) Trichloroethene	6.19	95	47910	4.588	ug/L	98
35) Methylcyclohexane	6.41	83	73339	4.457	ug/L	99
37) 1,2-Dichloropropane	6.44	63	56265	4.623	ug/L #	98
38) Bromodichloromethane	6.76	83	59619	4.492	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	66260	4.295	ug/L	94
40) 4-Methyl-2-pentanone	7.47	43	375307	43.131	ug/L	99
42) Toluene	7.64	91	204751	4.736	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	51141	4.407	ug/L	99
45) 1,1,2-Trichloroethane	8.07	97	34790	4.730	ug/L	94
47) Tetrachloroethene	8.23	164	33669	4.645	ug/L	98
48) 2-Hexanone	8.37	43	264480	42.630	ug/L	99
49) Dibromochloromethane	8.48	129	34690	4.660	ug/L	95
50) 1,2-Dibromoethane	8.59	107	29798	4.483	ug/L	96
51) Chlorobenzene	9.12	112	120764	4.850	ug/L	97
52) Ethylbenzene	9.25	91	217150	4.667	ug/L	96
53) m,p-xylene	9.38	106	78350	4.854	ug/L	96
54) o-xylene	9.78	106	76692	4.756	ug/L	95
55) Styrene	9.79	104	127741	4.719	ug/L	97
56) Isopropylbenzene	10.17	105	201989	4.677	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	46089	4.875	ug/L	97
59) 1,2,3-Trichloropropane	10.49	75	30965	4.403	ug/L	99
61) Bromoform	9.96	173	18759	4.916	ug/L	98
62) 1,3-Dichlorobenzene	11.42	146	87174	4.759	ug/L	97
63) 1,4-Dichlorobenzene	11.51	146	89517	4.791	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	83884	4.671	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	5640	4.031	ug/L #	83
67) 1,3,5-Trichlorobenzene	12.89	180	68545	4.893	ug/L	96
68) 1,2,4-trichlorobenzene	13.50	180	55704	4.759	ug/L	99
69) Naphthalene	13.74	128	93410	4.490	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	51978	4.688	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 4.439 ug/L

RT: 1.21 min Scan# 11

Delta R.T. -0.00 min

Lab File: VU028279.D

Acq: 20 Nov 2018 15:35

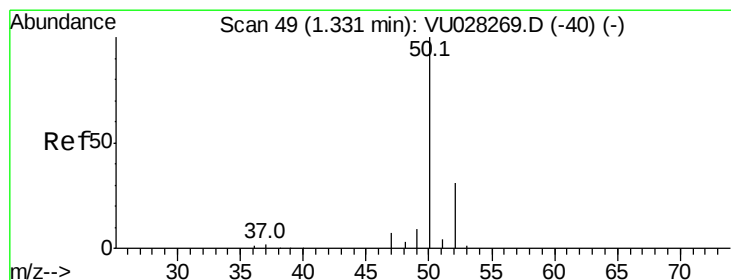
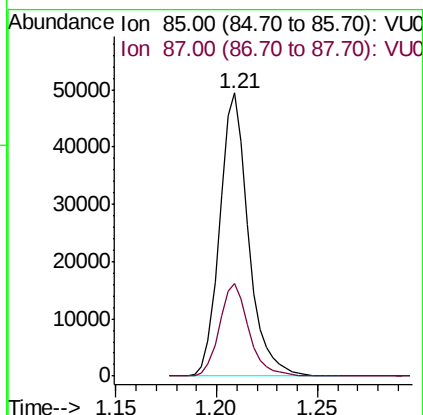
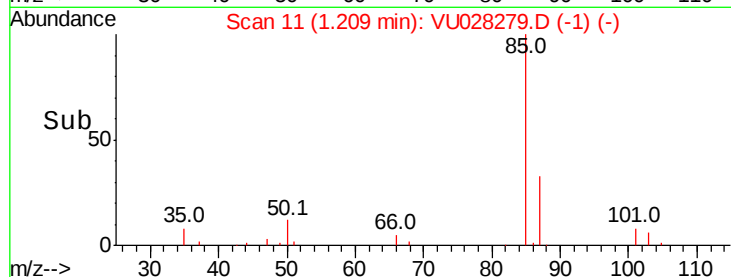
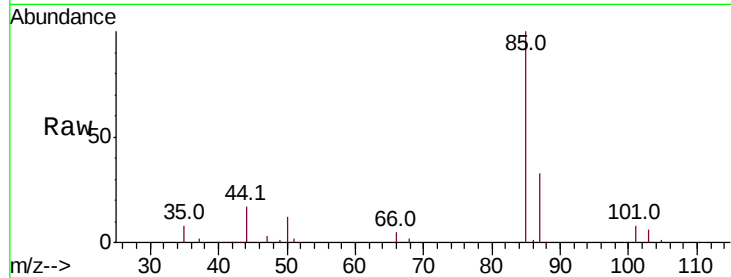
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 85 Resp: 49092

Ion Ratio Lower Upper

85 100

87 33.3 25.9 38.9



#3

Chloromethane

Concen: 4.992 ug/L

RT: 1.33 min Scan# 49

Delta R.T. -0.00 min

Lab File: VU028279.D

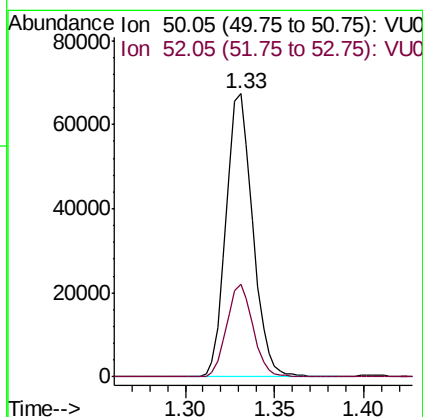
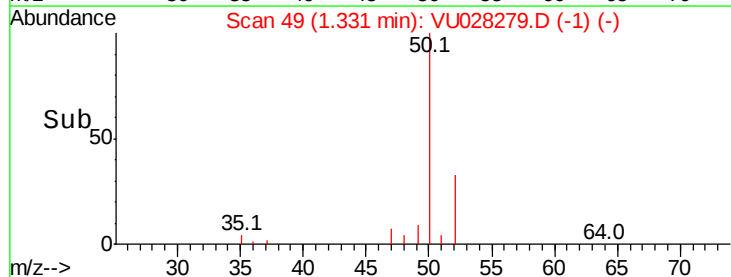
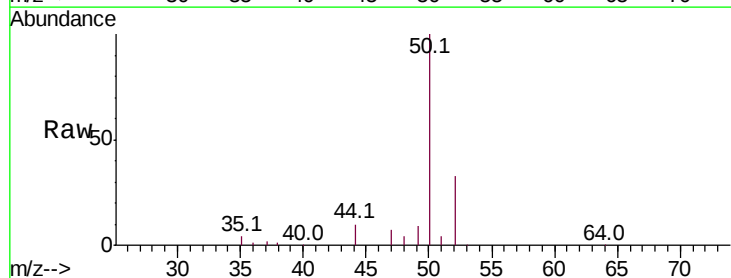
Acq: 20 Nov 2018 15:35

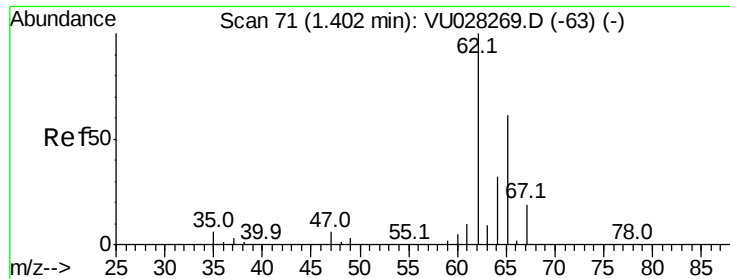
Tgt Ion: 50 Resp: 70275

Ion Ratio Lower Upper

50 100

52 32.8 22.8 42.4





#5

Vinyl chloride

Concen: 4.852 ug/L

RT: 1.40 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU028279.D

Acq: 20 Nov 2018 15:35

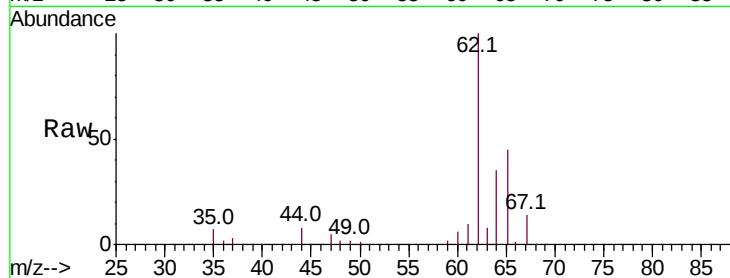
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 62 Resp: 64865

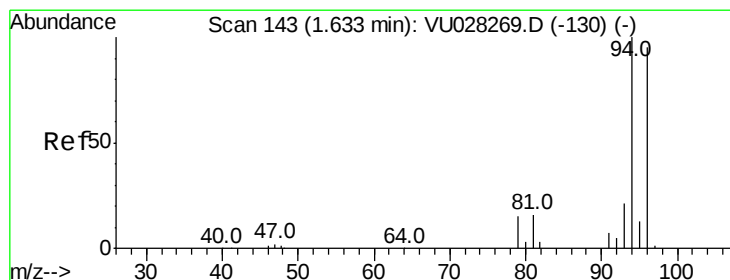
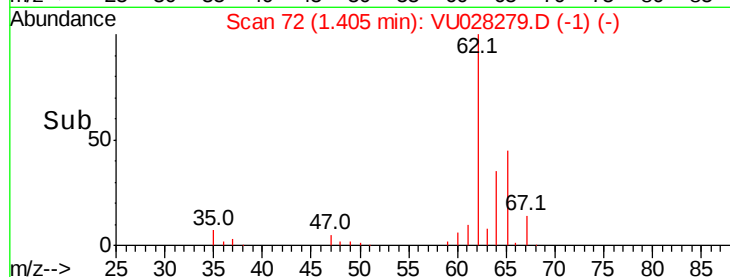
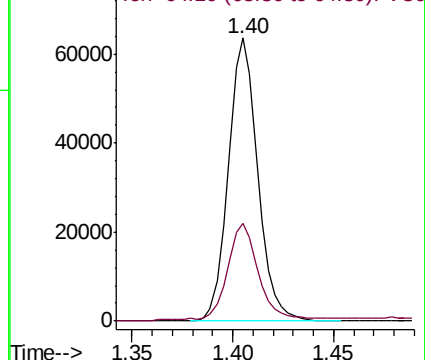
Ion Ratio Lower Upper

62 100

64 34.5 21.7 40.3



Abundance Ion 62.00 (61.70 to 62.70): VU0
Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 4.653 ug/L

RT: 1.63 min Scan# 142

Delta R.T. -0.00 min

Lab File: VU028279.D

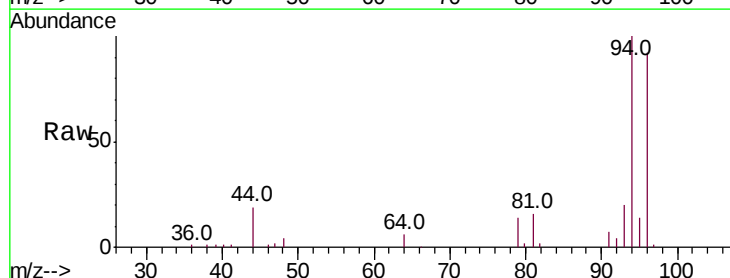
Acq: 20 Nov 2018 15:35

Tgt Ion: 94 Resp: 28069

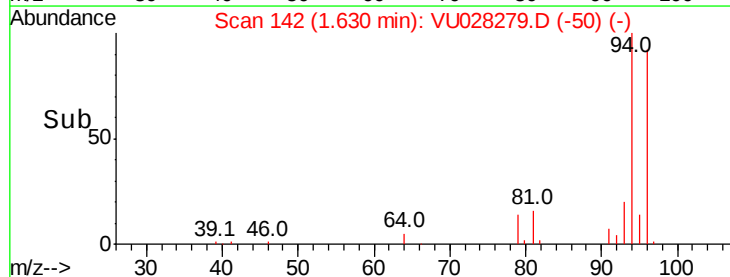
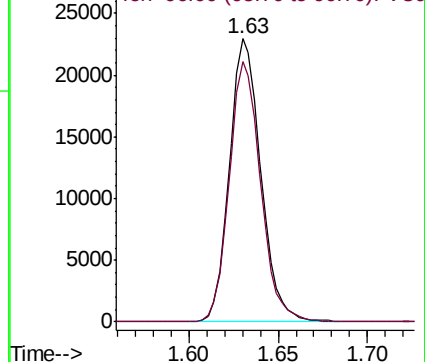
Ion Ratio Lower Upper

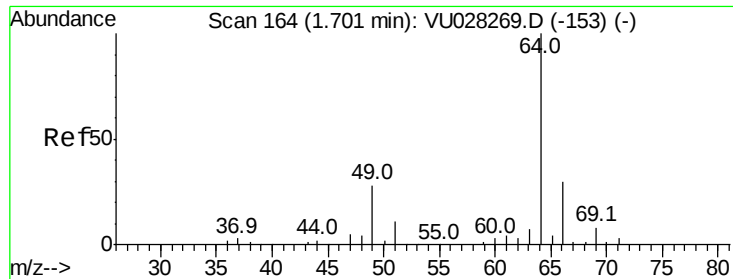
94 100

96 91.8 63.6 118.0



Abundance Ion 94.00 (93.70 to 94.70): VU0
Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 4.865 ug/L

RT: 1.70 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU028279.D

Acq: 20 Nov 2018 15:35

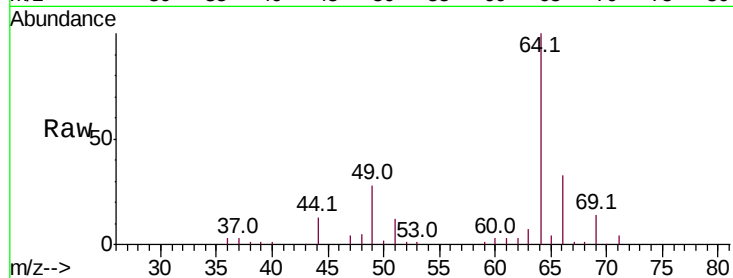
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 64 Resp: 38438

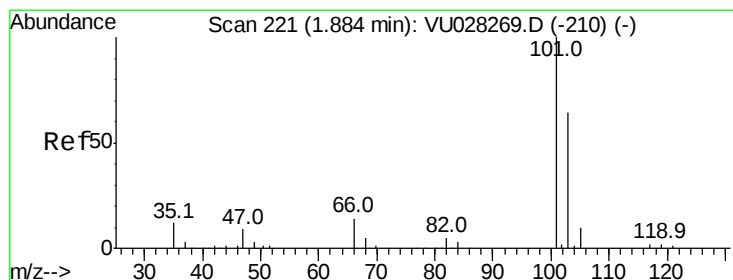
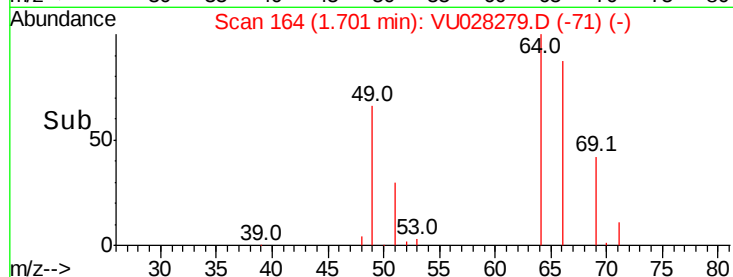
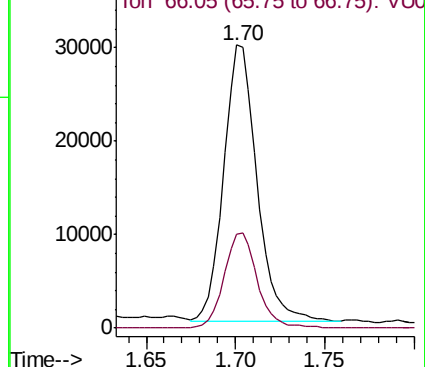
Ion Ratio Lower Upper

64 100

66 33.3 20.7 38.5



Abundance Ion 64.10 (63.80 to 64.80): VU028279.D (-153) (-)



#9

Trichlorofluoromethane

Concen: 4.786 ug/L

RT: 1.89 min Scan# 223

Delta R.T. 0.01 min

Lab File: VU028279.D

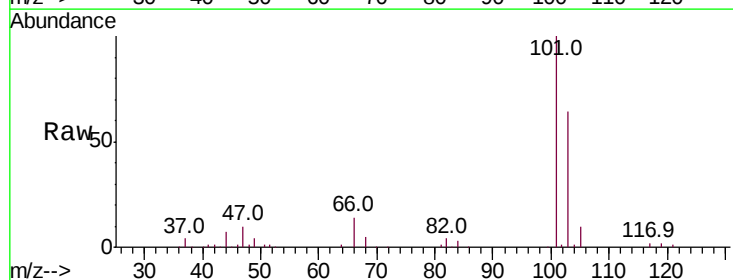
Acq: 20 Nov 2018 15:35

Tgt Ion:101 Resp: 74499

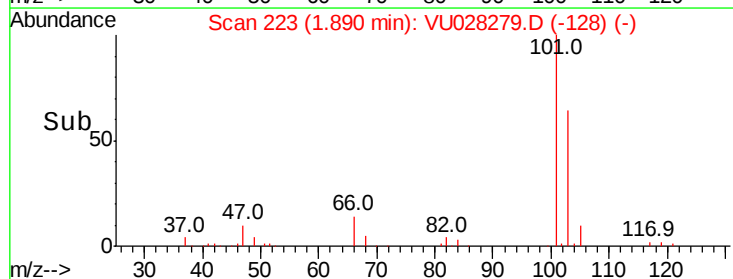
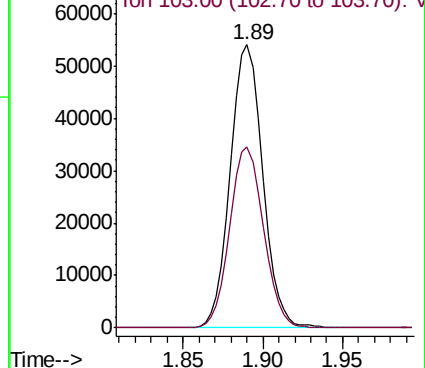
Ion Ratio Lower Upper

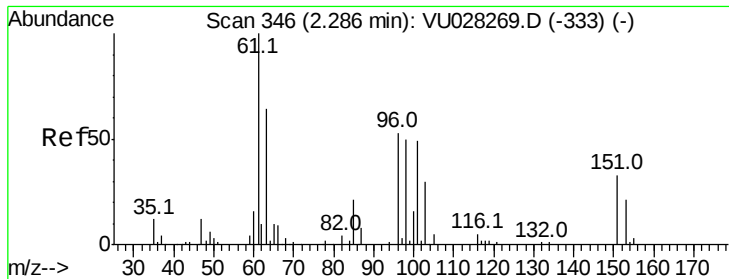
101 100

103 66.4 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): VU028279.D (-210) (-)





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 4.822 ug/L

RT: 2.29 min Scan# 348

Delta R.T. 0.01 min

Lab File: VU028279.D

Acq: 20 Nov 2018 15:35

Instrument :

MSVOA_U

ClientSampleId :

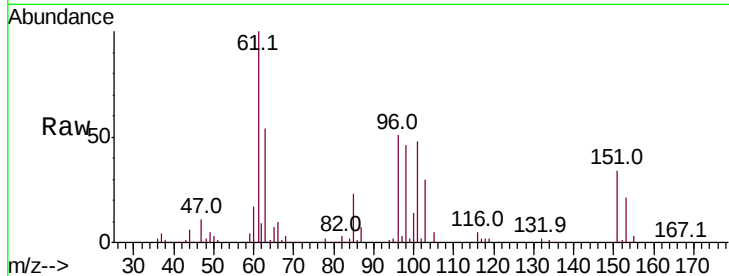
Tot Ion:101 Resp: 41309

Ion Ratio Lower Upper

101 100

85 47.1 37.4 56.2

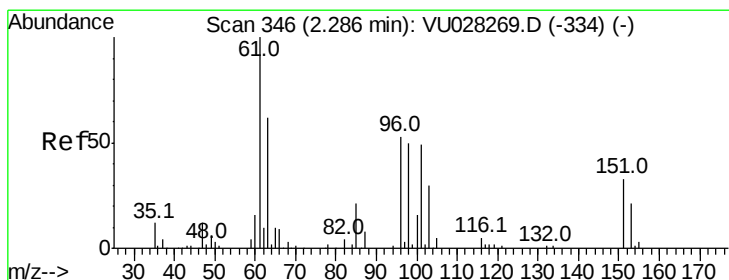
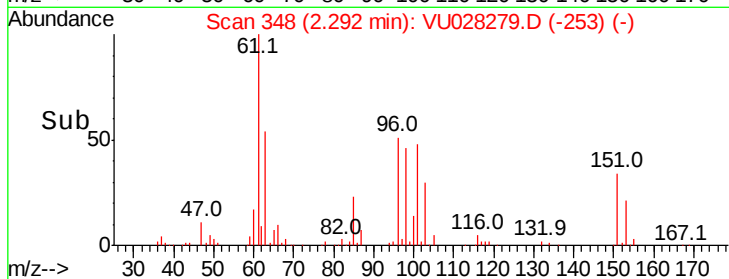
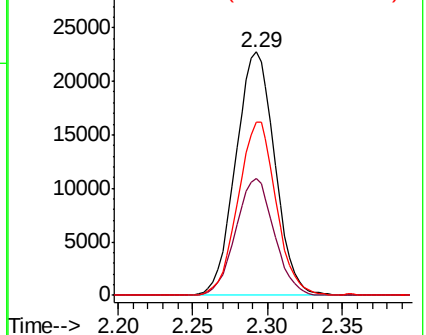
151 69.4 55.0 82.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.877 ug/L

RT: 2.29 min Scan# 347

Delta R.T. 0.00 min

Lab File: VU028279.D

Acq: 20 Nov 2018 15:35

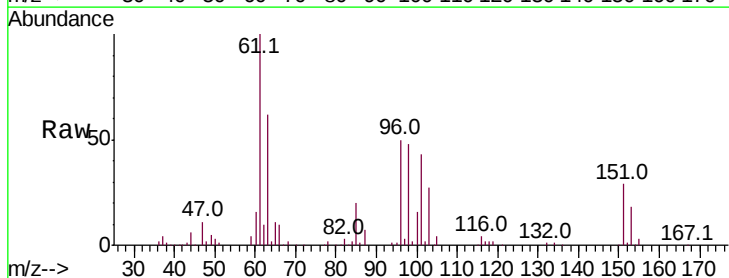
Tgt Ion: 96 Resp: 39543

Ion Ratio Lower Upper

96 100

61 199.3 145.5 270.1

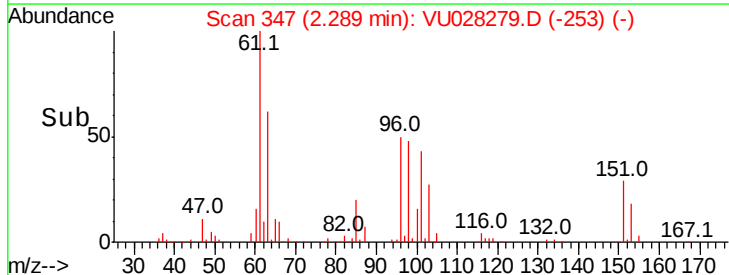
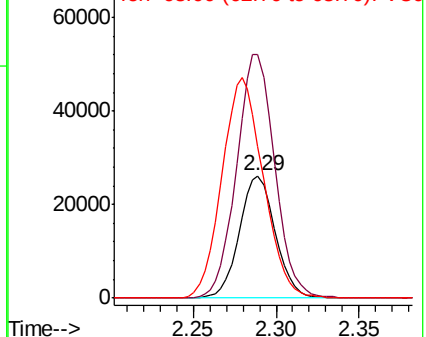
63 124.5 98.6 183.2

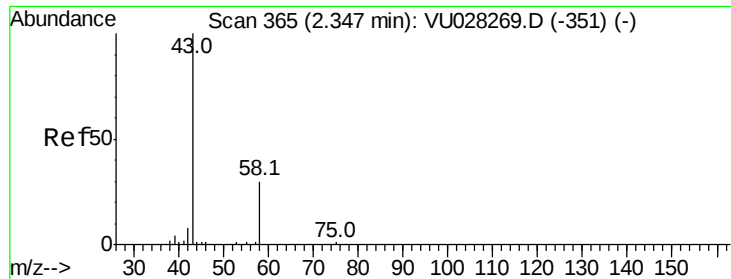


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 41.615 ug/L

RT: 2.32 min Scan# 358

Delta R.T. -0.02 min

Lab File: VU028279.D

Acq: 20 Nov 2018 15:35

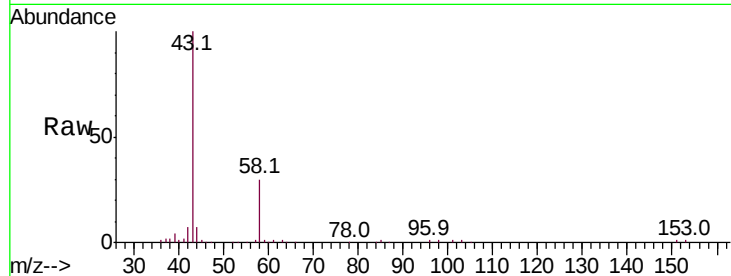
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 94922

Ion Ratio Lower Upper

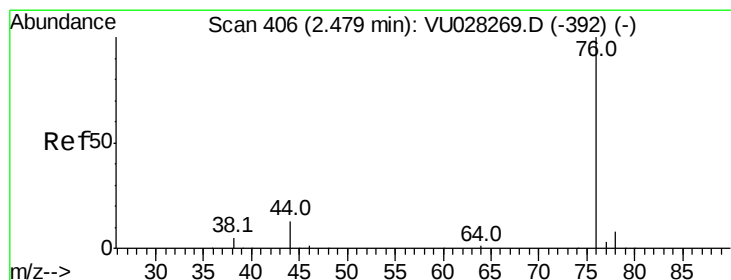
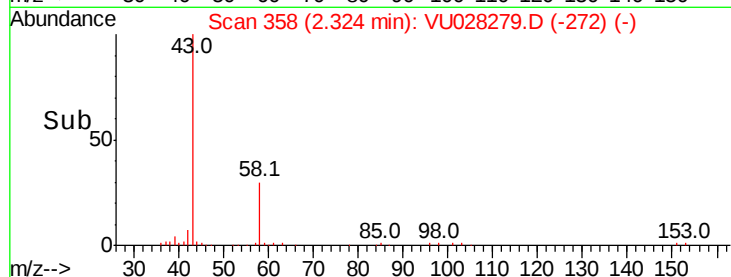
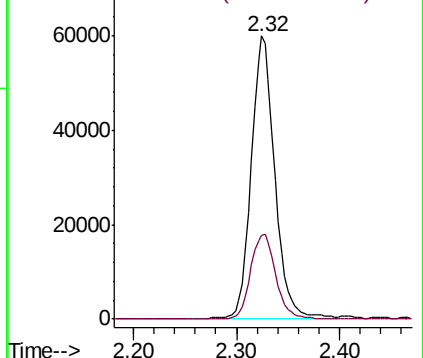
43 100

58 32.0 0.0 58.6



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#14

Carbon disulfide

Concen: 5.013 ug/L

RT: 2.48 min Scan# 407

Delta R.T. 0.00 min

Lab File: VU028279.D

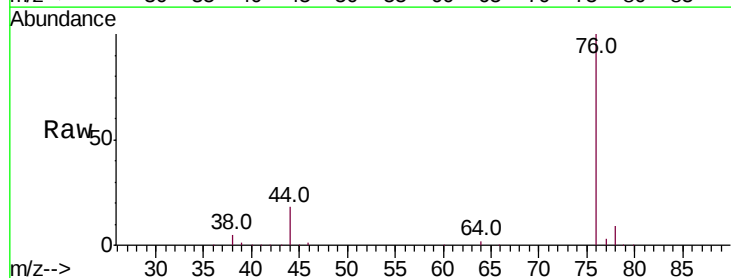
Acq: 20 Nov 2018 15:35

Tgt Ion: 76 Resp: 127633

Ion Ratio Lower Upper

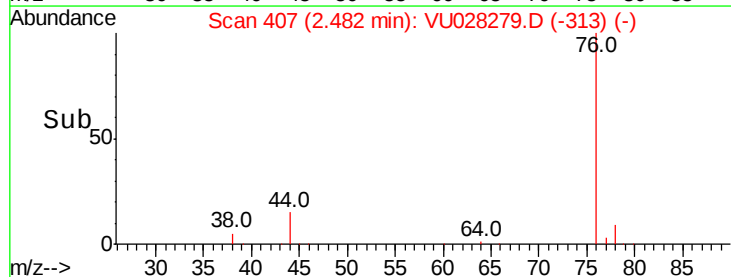
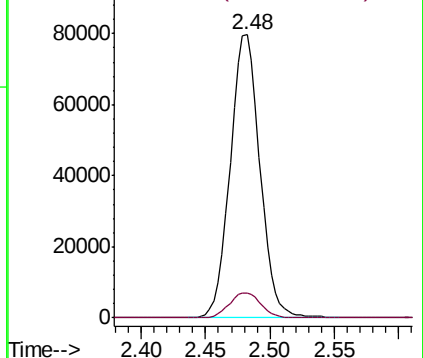
76 100

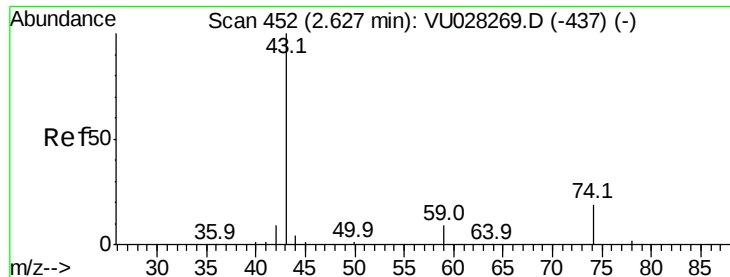
78 8.9 7.6 11.4



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0





#15

Methyl Acetate

Concen: 4.211 ug/L

RT: 2.62 min Scan# 450

Delta R.T. -0.01 min

Lab File: VU028279.D

Acq: 20 Nov 2018 15:35

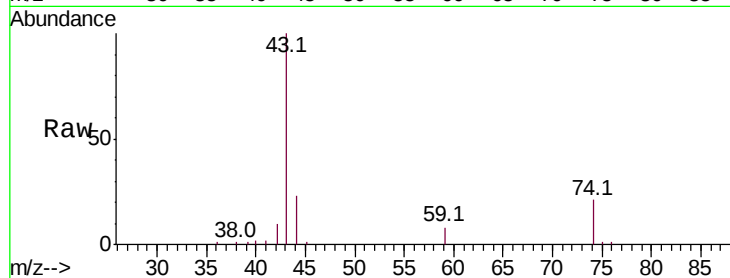
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 25460

Ion Ratio Lower Upper

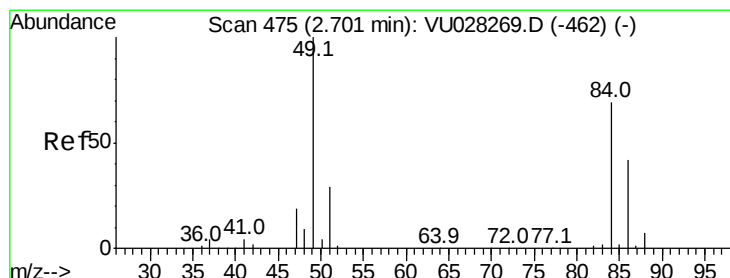
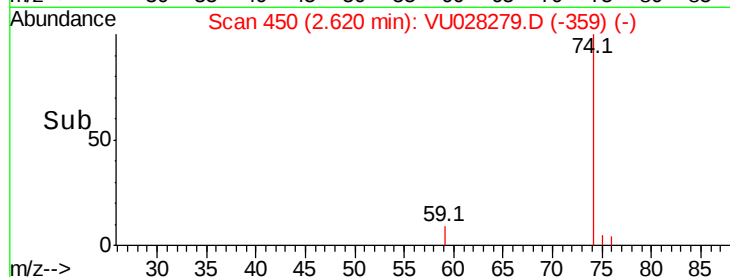
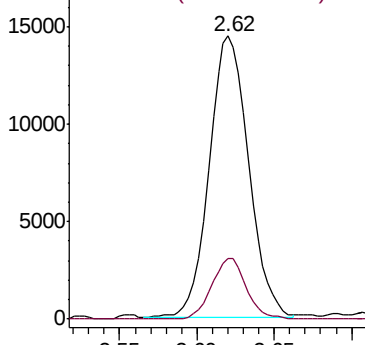
43 100

74 18.9 14.7 22.1



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0



#16

Methylene chloride

Concen: 4.719 ug/L

RT: 2.70 min Scan# 476

Delta R.T. 0.00 min

Lab File: VU028279.D

Acq: 20 Nov 2018 15:35

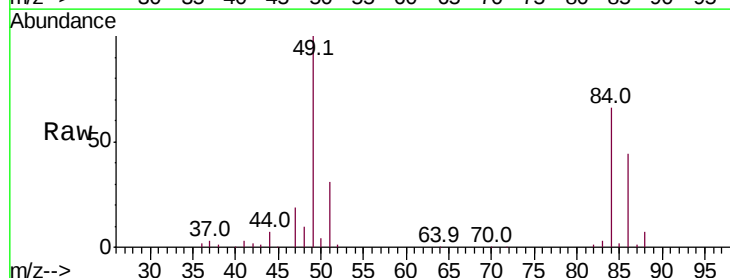
Tgt Ion: 84 Resp: 48208

Ion Ratio Lower Upper

84 100

86 66.4 45.3 84.1

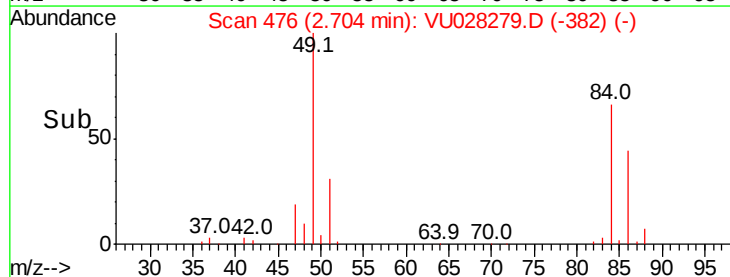
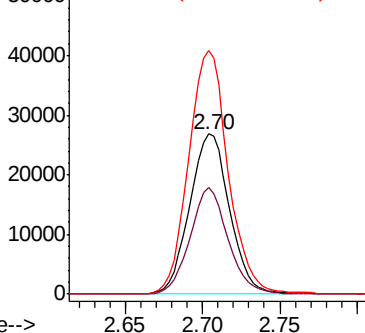
49 152.0 107.9 200.5

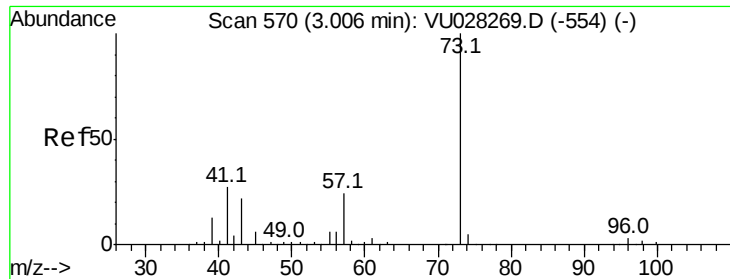


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

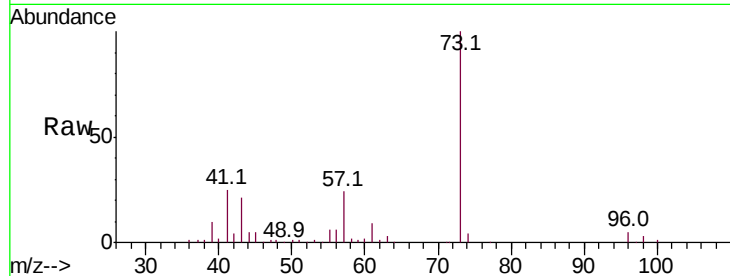




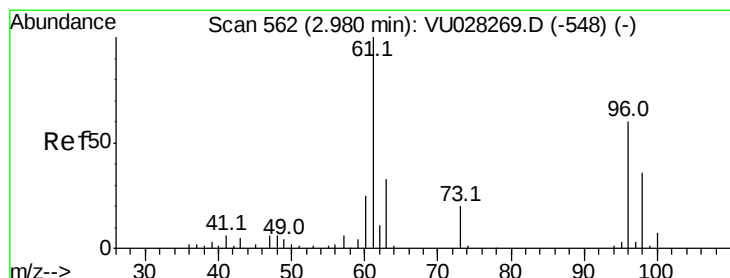
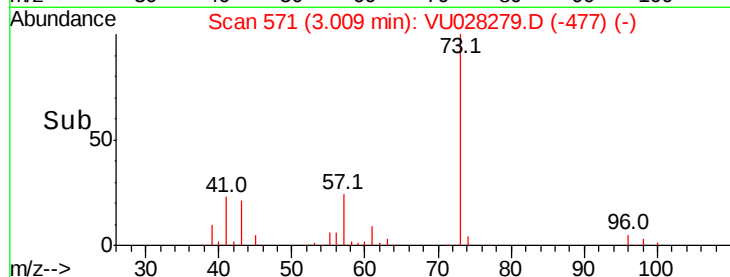
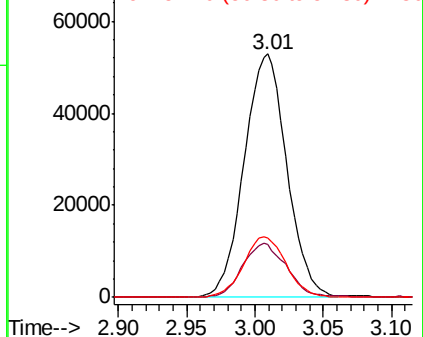
#17
Methvl tert-butvl Ether
Concen: 4.711 ug/L
RT: 3.01 min Scan# 571
Delta R.T. 0.00 min
Lab File: VU028279.D
Acq: 20 Nov 2018 15:35

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 73 Resp: 114745
Ion Ratio Lower Upper
73 100
43 22.1 18.8 28.2
57 24.8 19.2 28.8

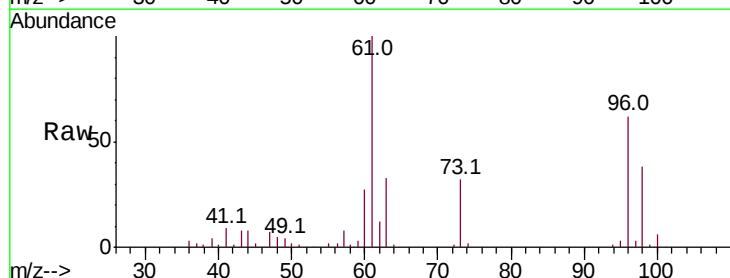


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

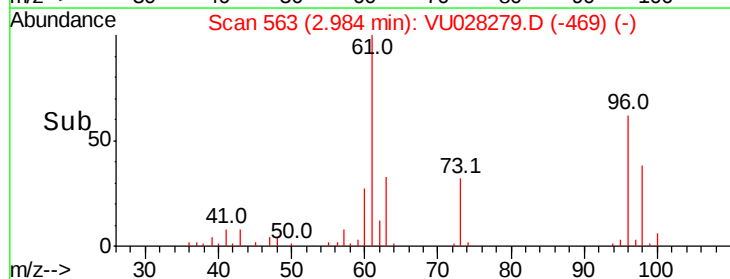
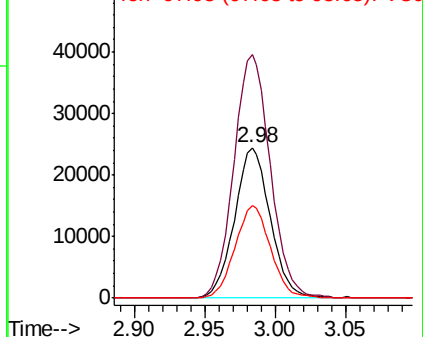


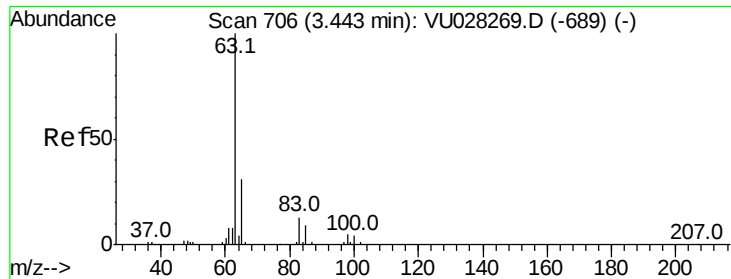
#18
trans-1,2-Dichloroethene
Concen: 5.018 ug/L
RT: 2.98 min Scan# 563
Delta R.T. 0.00 min
Lab File: VU028279.D
Acq: 20 Nov 2018 15:35

Tgt Ion: 96 Resp: 43338
Ion Ratio Lower Upper
96 100
61 161.8 122.2 227.0
98 61.7 44.9 83.5



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0

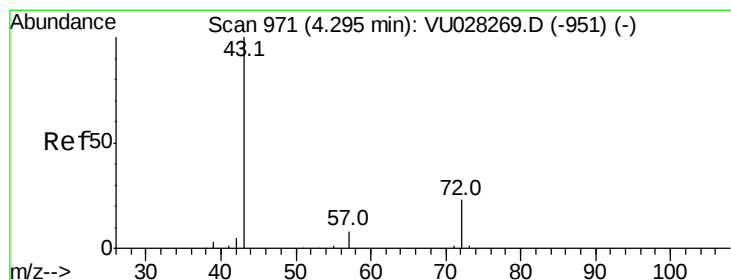
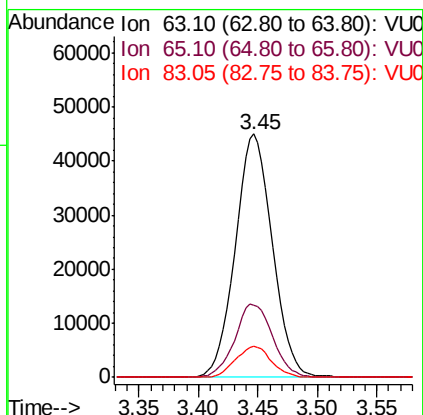
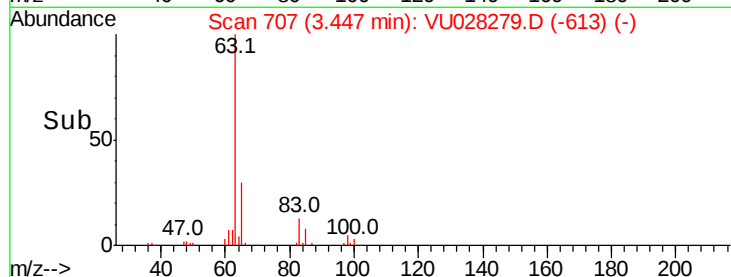
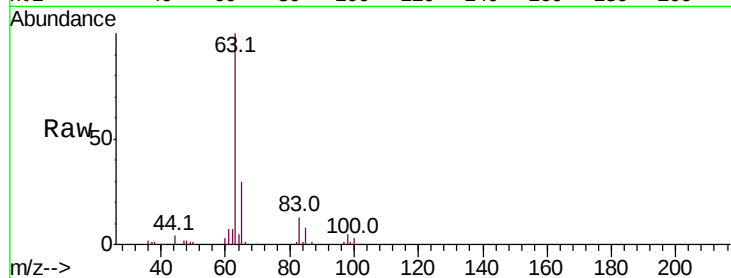




#19
1,1-Dichloroethane
Concen: 4.849 ug/L
RT: 3.45 min Scan# 707
Delta R.T. 0.00 min
Lab File: VU028279.D
Acq: 20 Nov 2018 15:35

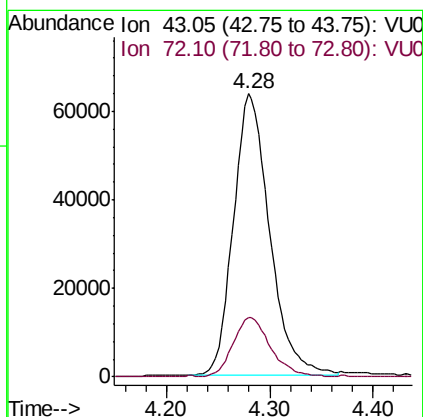
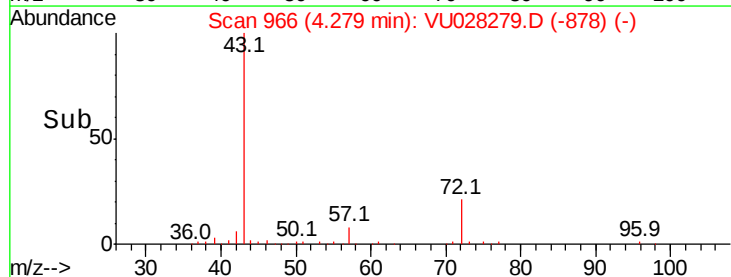
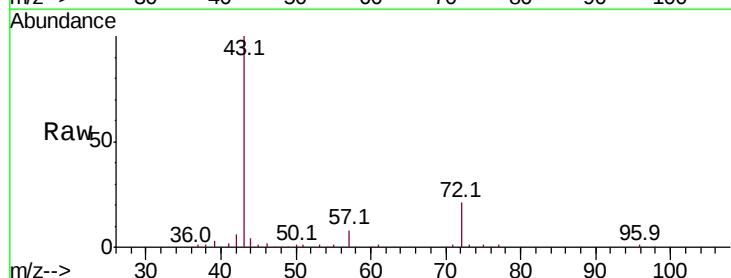
Instrument :
MSVOA_U
ClientSampleId :

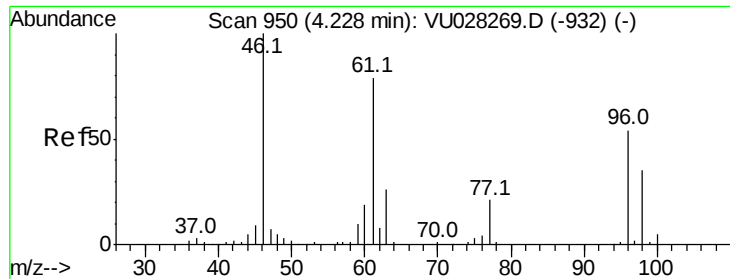
Tot Ion: 63 Resp: 97123
Ion Ratio Lower Upper
63 100
65 29.8 21.2 39.4
83 12.7 8.8 16.4



#21
2-Butanone
Concen: 42.956 ug/L
RT: 4.28 min Scan# 966
Delta R.T. -0.02 min
Lab File: VU028279.D
Acq: 20 Nov 2018 15:35

Tgt Ion: 43 Resp: 156023
Ion Ratio Lower Upper
43 100
72 21.1 10.7 32.1



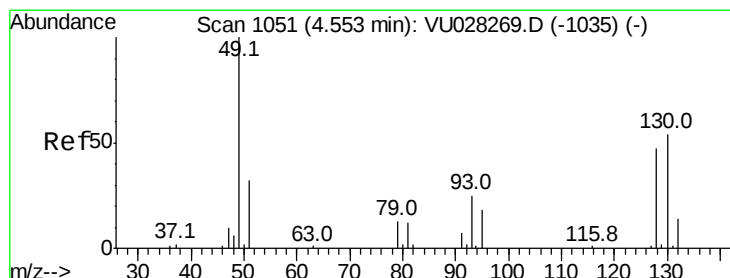
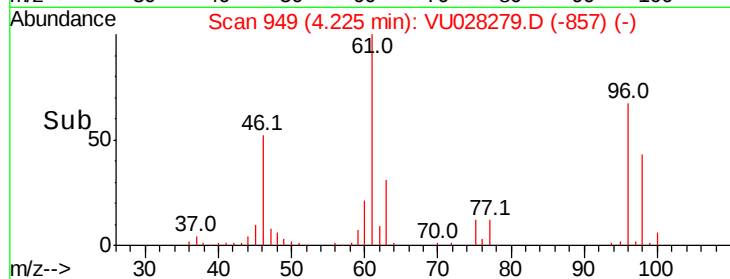
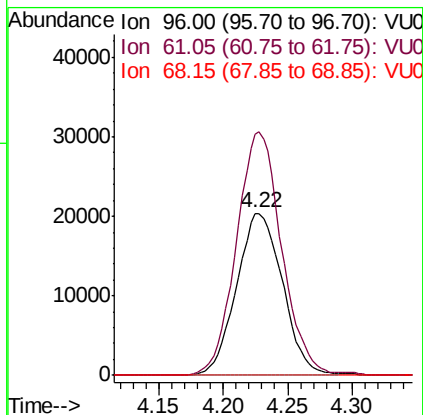
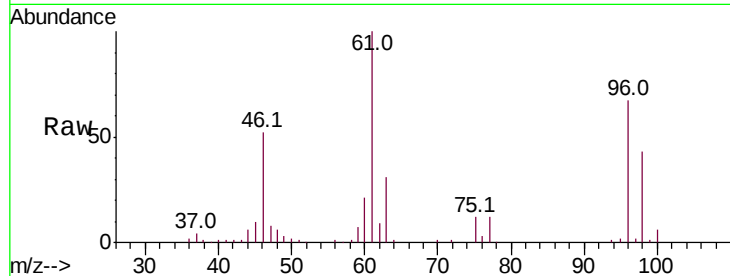


#22

cis-1,2-Dichloroethene
 Concen: 4.949 ug/L
 RT: 4.22 min Scan# 949
 Delta R.T. -0.00 min
 Lab File: VU028279.D
 Acq: 20 Nov 2018 15:35

Instrument :
 MSVOA_U
 ClientSampled :

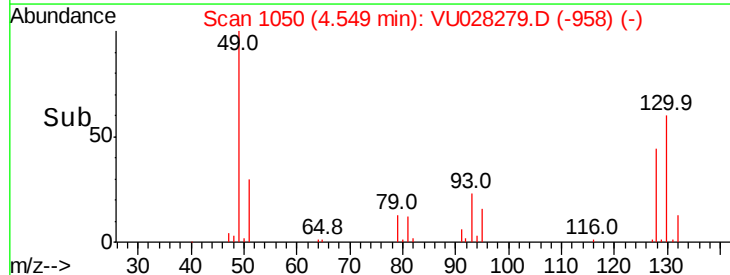
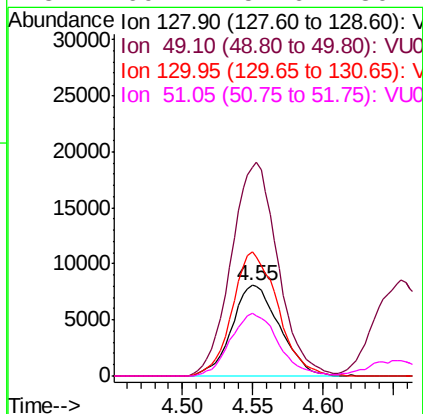
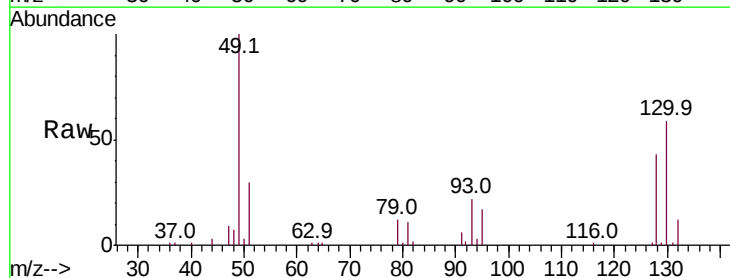
Tot Ion: 96 Resp: 50522
 Ion Ratio Lower Upper
 96 100
 61 149.0 108.0 200.6
 68 0.0 0.0 0.0

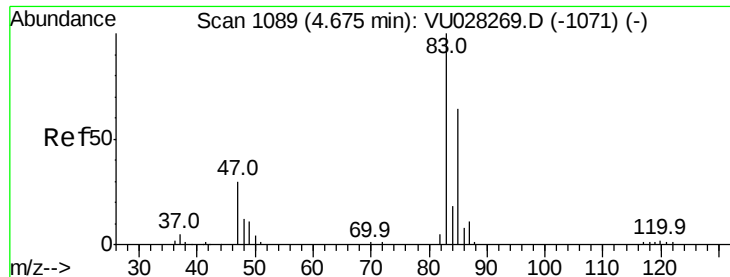


#23

Bromochloromethane
 Concen: 4.777 ug/L
 RT: 4.55 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VU028279.D
 Acq: 20 Nov 2018 15:35

Tgt Ion: 128 Resp: 19086
 Ion Ratio Lower Upper
 128 100
 49 230.5 162.0 300.8
 130 137.1 87.7 162.9
 51 69.7 57.6 86.4

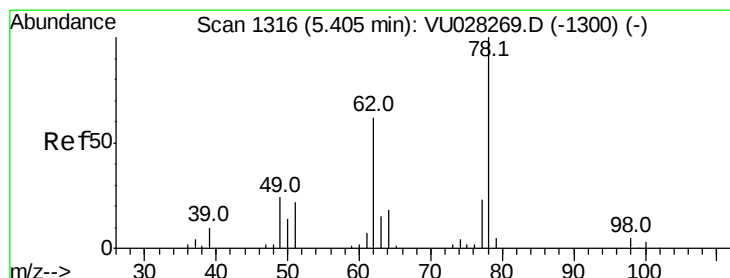
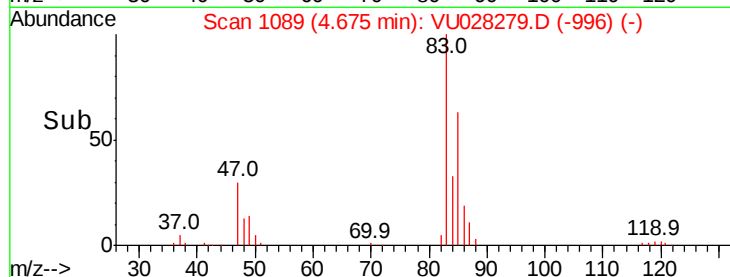
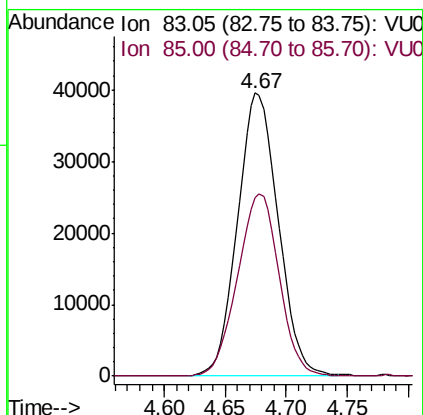
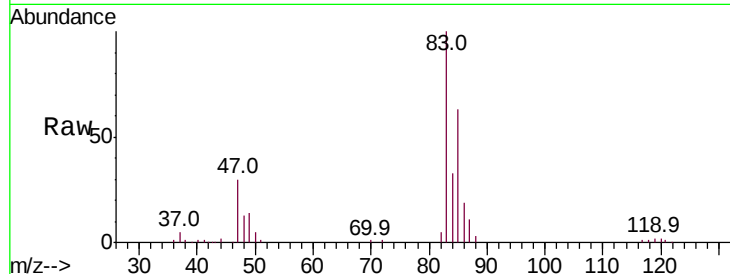




#25
Chloroform
Concen: 4.211 ug/L
RT: 4.67 min Scan# 1089
Delta R.T. -0.00 min
Lab File: VU028279.D
Acq: 20 Nov 2018 15:35

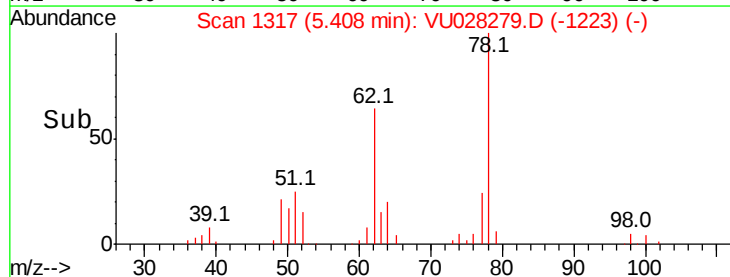
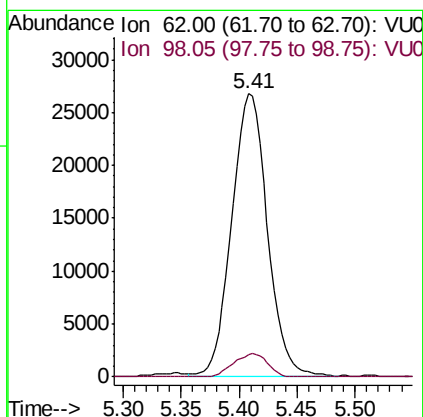
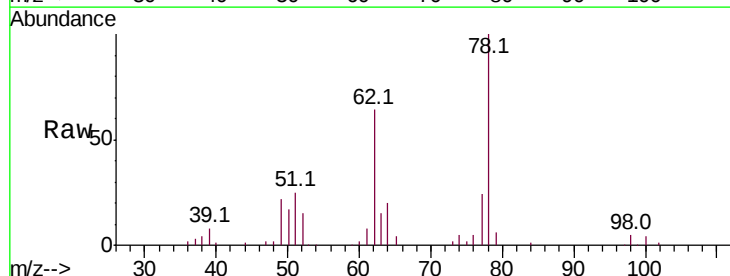
Instrument :
MSVOA_U
ClientSampled :

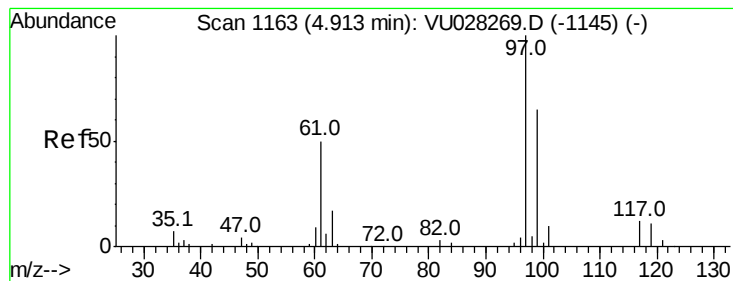
Tot Ion: 83 Resp: 91264
Ion Ratio Lower Upper
83 100
85 63.0 44.6 82.8



#27
1,2-Dichloroethane
Concen: 4.626 ug/L
RT: 5.41 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VU028279.D
Acq: 20 Nov 2018 15:35

Tgt Ion: 62 Resp: 57311
Ion Ratio Lower Upper
62 100
98 7.8 6.2 9.4





#29

1,1,1-Trichloroethane

Concen: 4.558 ug/L

RT: 4.92 min Scan# 1164

Delta R.T. 0.00 min

Lab File: VU028279.D

Acq: 20 Nov 2018 15:35

Instrument :

MSVOA_U

ClientSampleId :

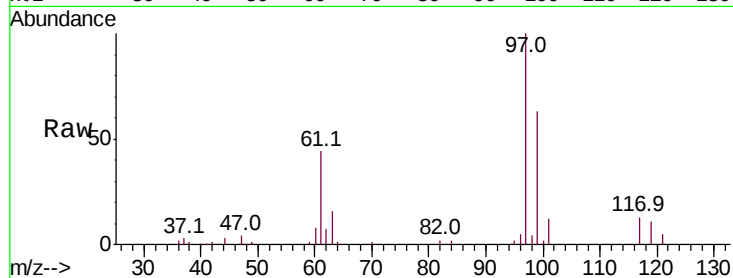
Tot Ion: 97 Resp: 66425

Ion Ratio Lower Upper

97 100

99 64.7 50.8 76.2

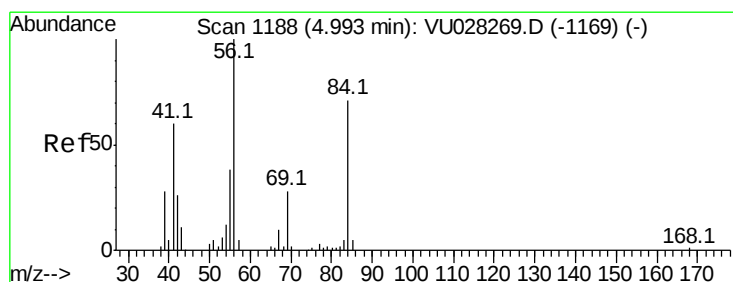
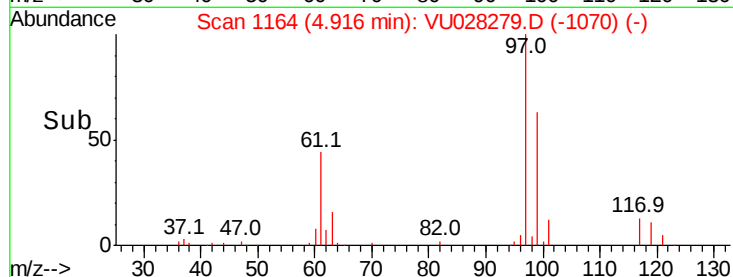
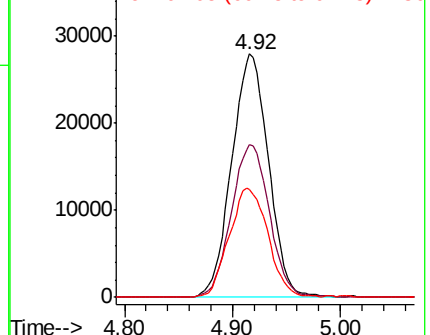
61 47.3 42.6 64.0



Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 61.05 (60.75 to 61.75): VU0



#30

Cyclohexane

Concen: 4.351 ug/L

RT: 4.99 min Scan# 1188

Delta R.T. -0.00 min

Lab File: VU028279.D

Acq: 20 Nov 2018 15:35

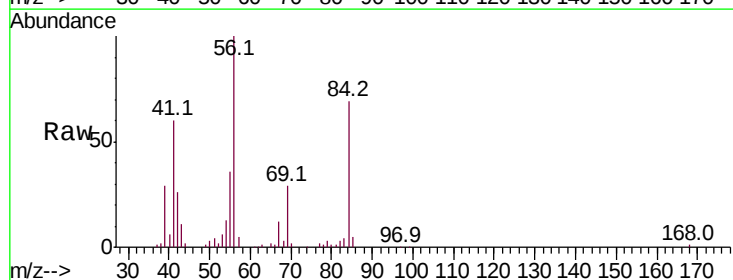
Tgt Ion: 56 Resp: 82992

Ion Ratio Lower Upper

56 100

69 27.3 22.0 33.0

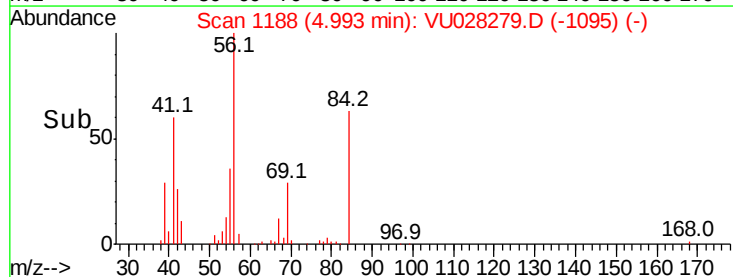
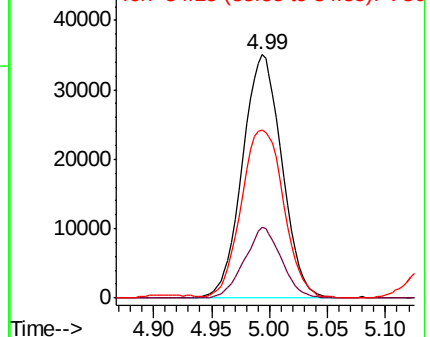
84 74.5 56.0 84.0

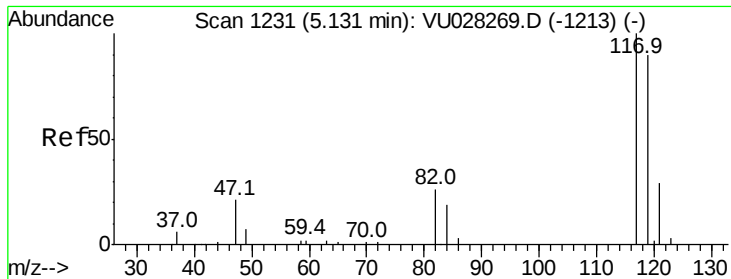


Abundance Ion 56.10 (55.80 to 56.80): VU0

Ion 69.15 (68.85 to 69.85): VU0

Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 4.507 ug/L

RT: 5.13 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VU028279.D

Acq: 20 Nov 2018 15:35

Instrument :

MSVOA_U

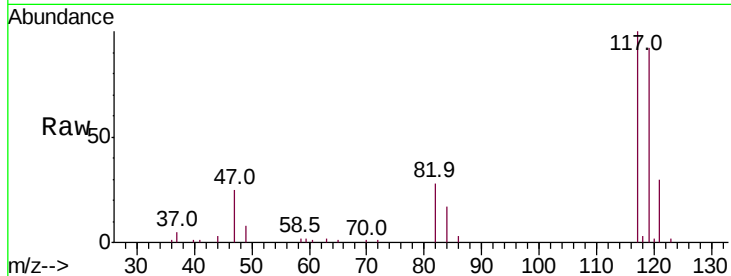
ClientSampleId :

Tot Ion:117 Resp: 53897

Ion Ratio Lower Upper

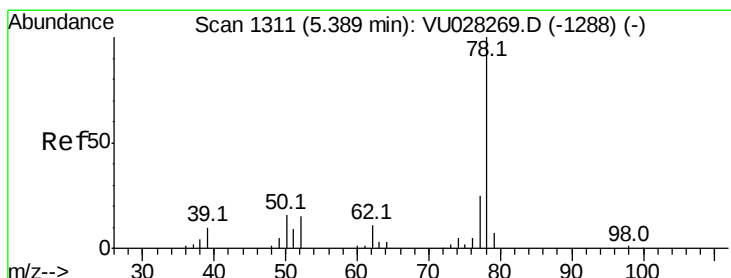
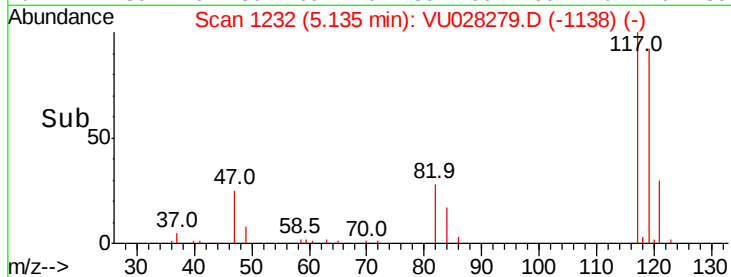
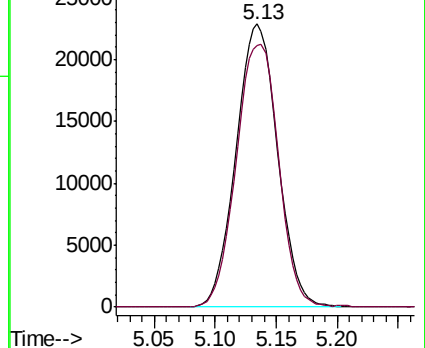
117 100

119 94.4 75.6 113.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.616 ug/L

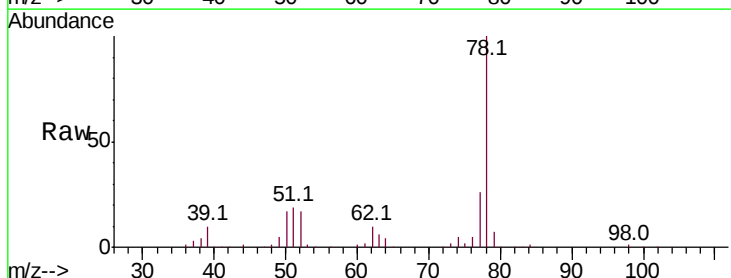
RT: 5.39 min Scan# 1311

Delta R.T. -0.00 min

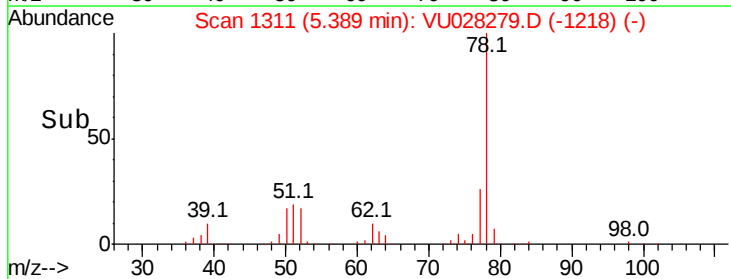
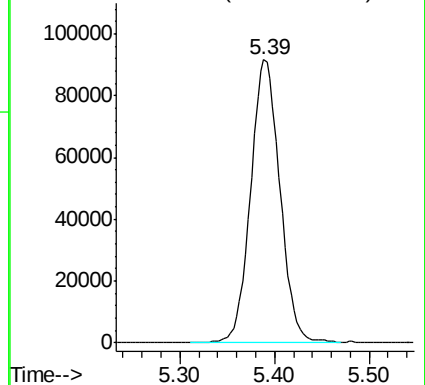
Lab File: VU028279.D

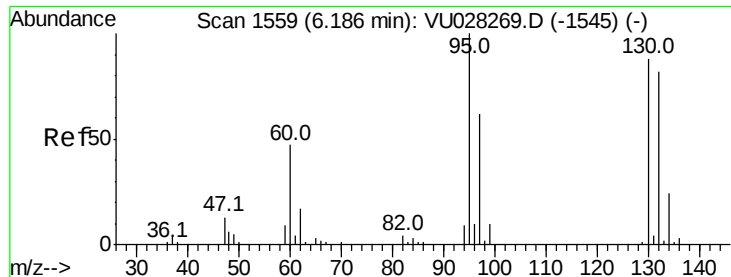
Acq: 20 Nov 2018 15:35

Tgt Ion: 78 Resp: 196874



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.588 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU028279.D

Acq: 20 Nov 2018 15:35

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 47910

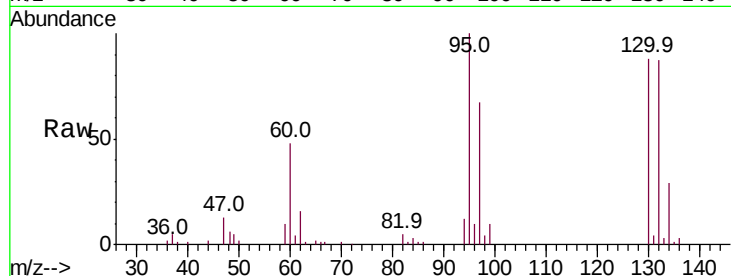
Ion Ratio Lower Upper

95 100

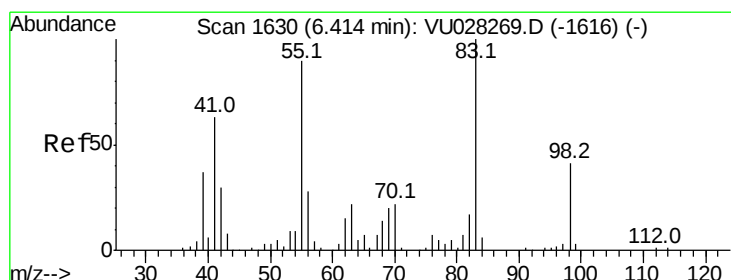
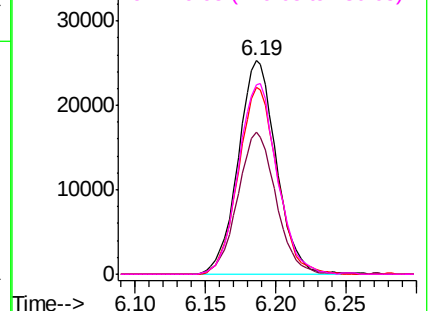
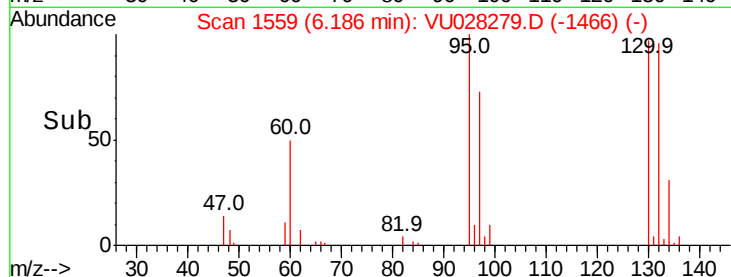
97 66.5 46.5 86.3

132 87.5 58.9 109.3

130 88.5 61.3 113.9



Abundance Ion 95.00 (94.70 to 95.70): VU0
Ion 96.95 (96.65 to 97.65): VU0
Ion 131.95 (131.65 to 132.65): V
Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.457 ug/L

RT: 6.41 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VU028279.D

Acq: 20 Nov 2018 15:35

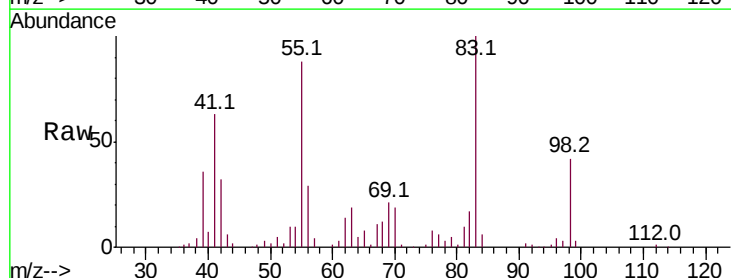
Tgt Ion: 83 Resp: 73339

Ion Ratio Lower Upper

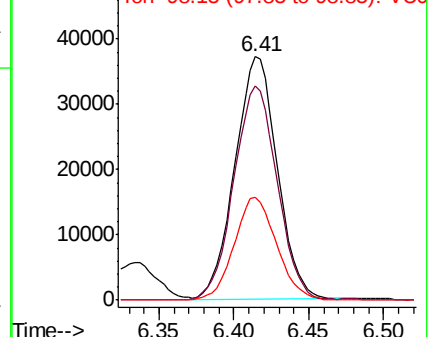
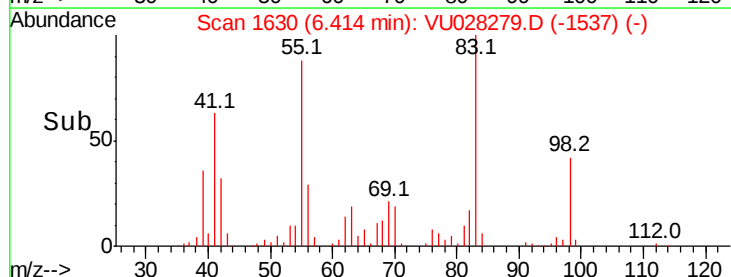
83 100

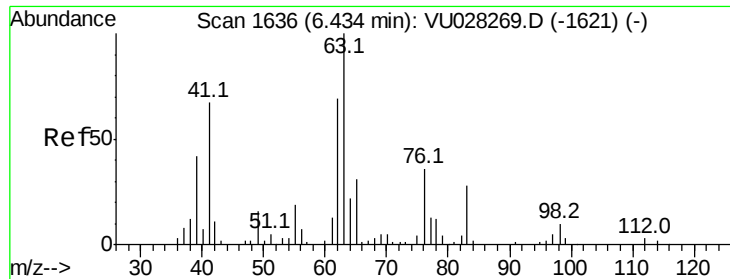
55 90.3 73.2 109.8

98 42.3 33.4 50.2



Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 4.623 ug/L

RT: 6.44 min Scan# 1637

Delta R.T. 0.00 min

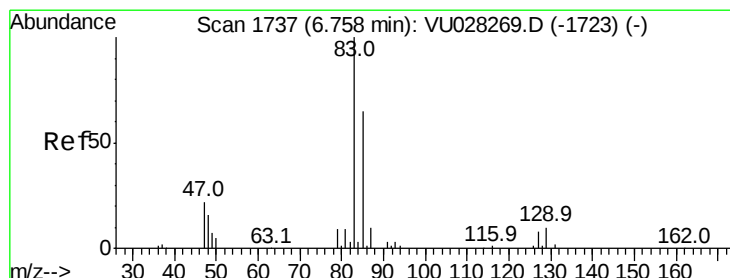
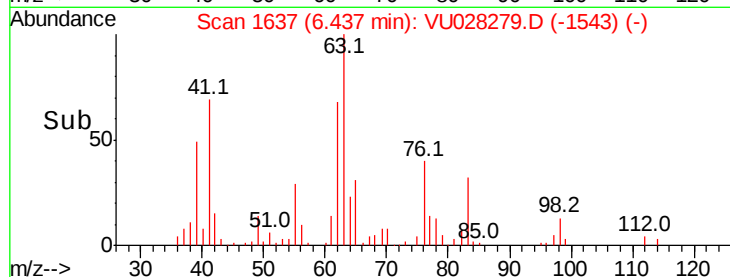
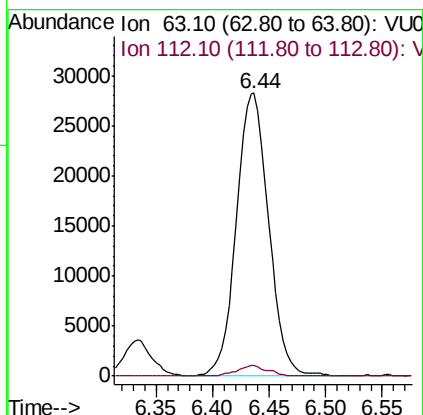
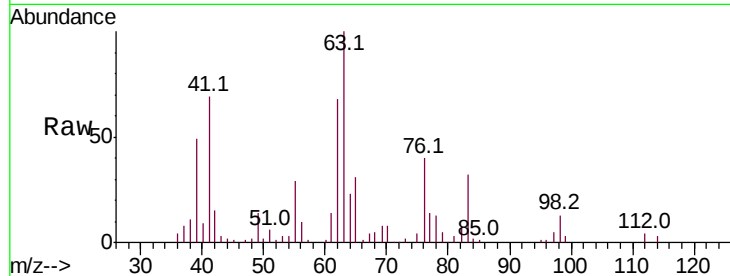
Lab File: VU028279.D

Acq: 20 Nov 2018 15:35

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 63 Resp: 56265

Ion	Ratio	Lower	Upper
63	100		
112	3.5	2.2	3.2#



#38

Bromodichloromethane

Concen: 4.492 ug/L

RT: 6.76 min Scan# 1737

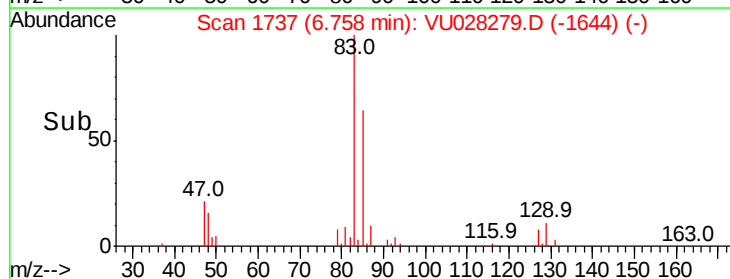
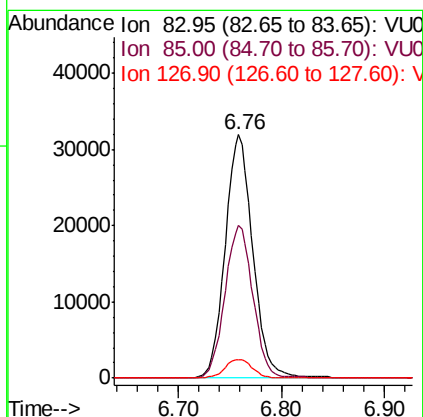
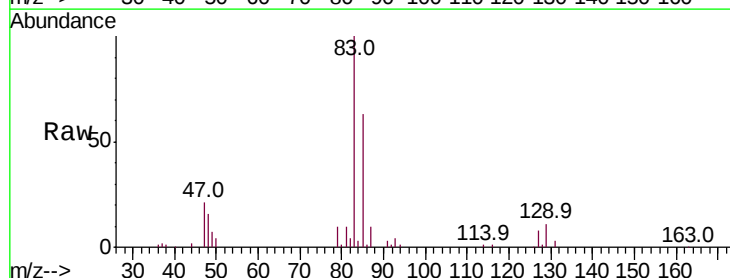
Delta R.T. -0.00 min

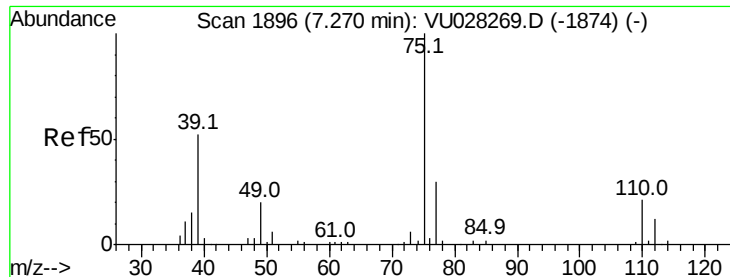
Lab File: VU028279.D

Acq: 20 Nov 2018 15:35

Tgt Ion: 83 Resp: 59619

Ion	Ratio	Lower	Upper
83	100		
85	62.5	44.2	82.0
127	7.8	6.2	9.4

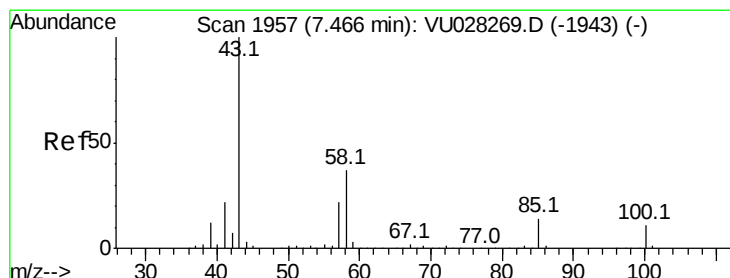
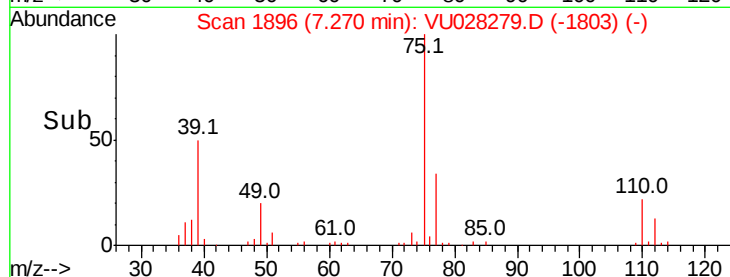
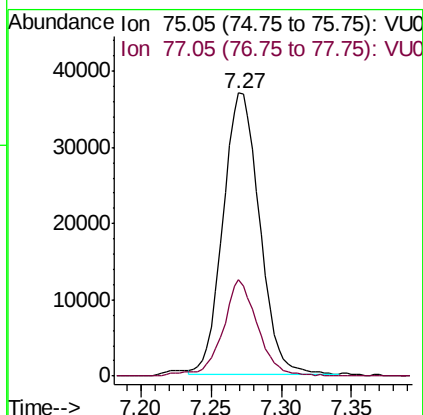
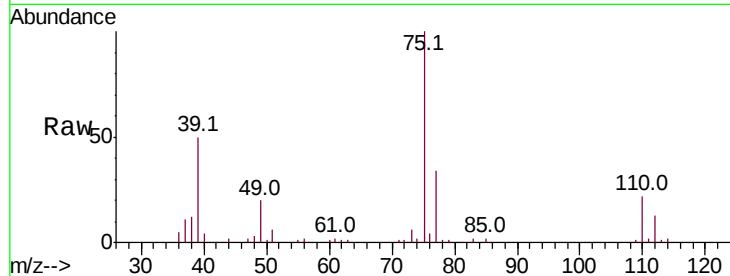




#39
 cis-1,3-Dichloropropene
 Concen: 4.295 ug/L
 RT: 7.27 min Scan# 1896
 Delta R.T. -0.00 min
 Lab File: VU028279.D
 Acq: 20 Nov 2018 15:35

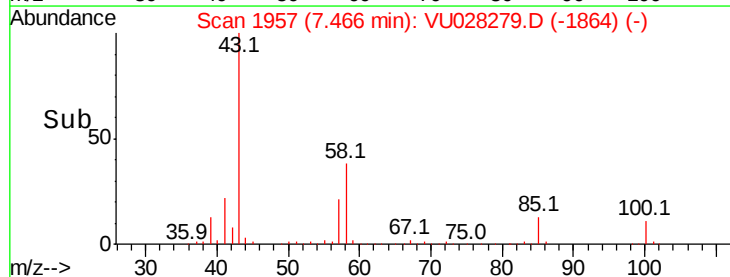
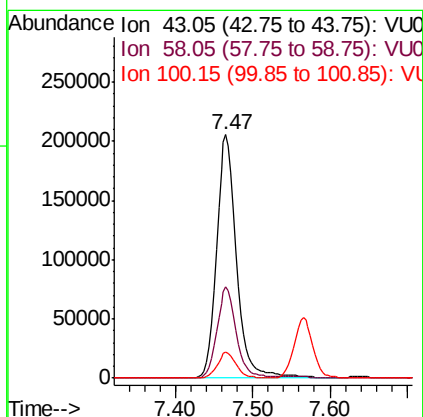
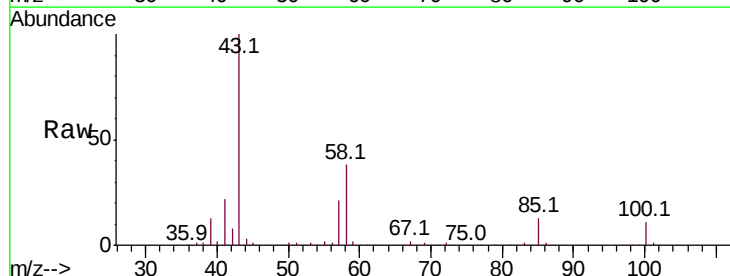
Instrument :
 MSVOA_U
 ClientSampleId :

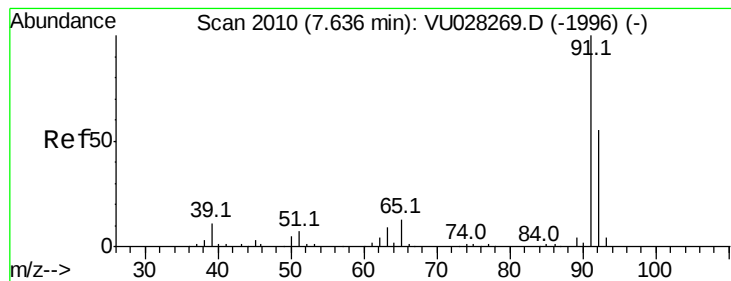
Tot Ion: 75 Resp: 66260
 Ion Ratio Lower Upper
 75 100
 77 34.2 21.7 40.3



#40
 4-Methyl-2-pentanone
 Concen: 43.131 ug/L
 RT: 7.47 min Scan# 1957
 Delta R.T. -0.00 min
 Lab File: VU028279.D
 Acq: 20 Nov 2018 15:35

Tgt Ion: 43 Resp: 375307
 Ion Ratio Lower Upper
 43 100
 58 36.4 28.8 43.2
 100 10.1 8.0 12.0





#42

Toluene

Concen: 4.736 ug/L

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU028279.D

Acq: 20 Nov 2018 15:35

Instrument :

MSVOA_U

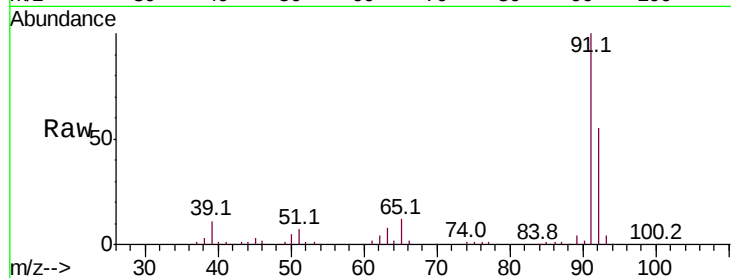
ClientSampleId :

Tot Ion: 91 Resp: 204751

Ion Ratio Lower Upper

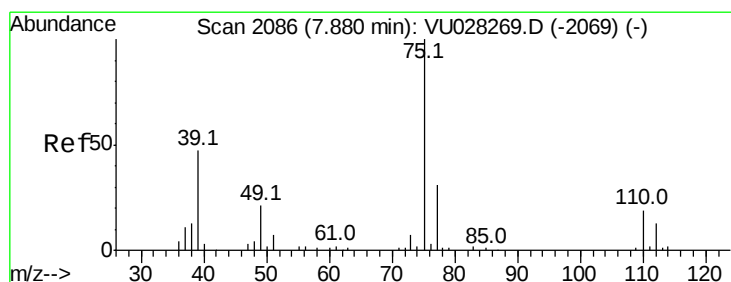
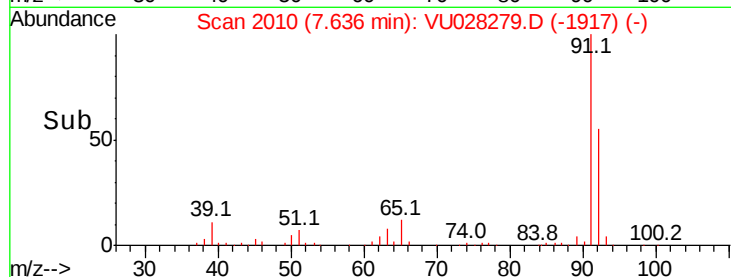
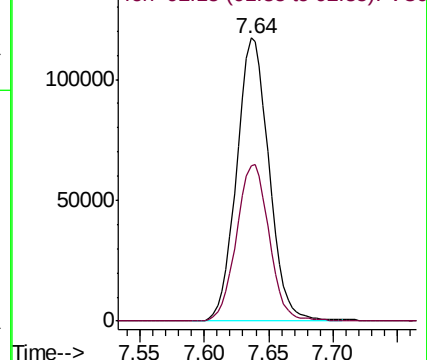
91 100

92 54.9 39.0 72.4



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 4.407 ug/L

RT: 7.88 min Scan# 2086

Delta R.T. -0.00 min

Lab File: VU028279.D

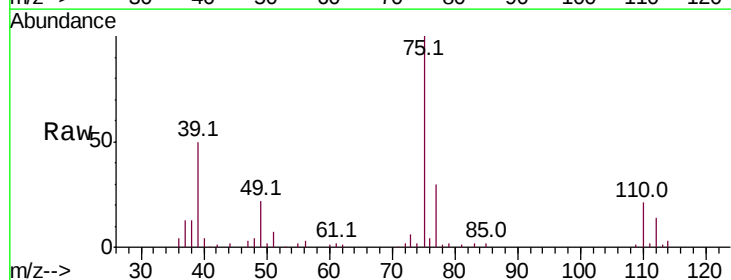
Acq: 20 Nov 2018 15:35

Tgt Ion: 75 Resp: 51141

Ion Ratio Lower Upper

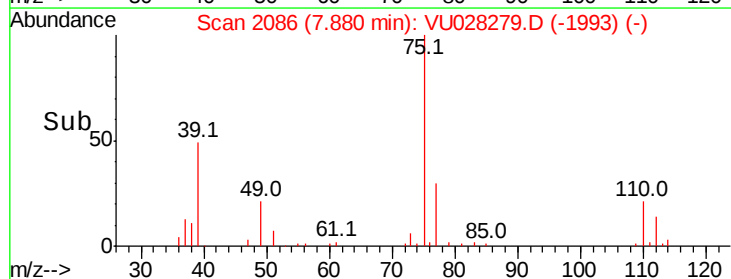
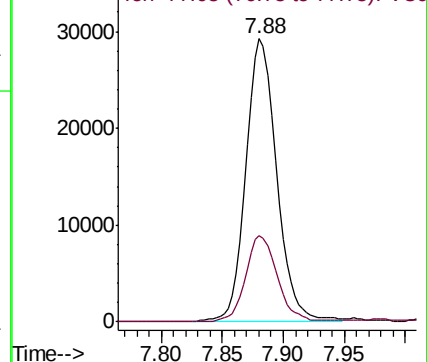
75 100

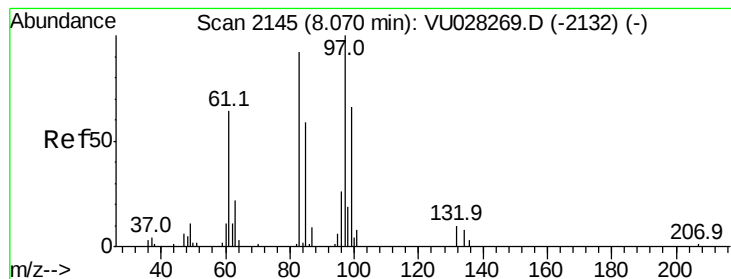
77 30.5 21.8 40.6



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0





#45

1,1,2-Trichloroethane

Concen: 4.730 ug/L

RT: 8.07 min Scan# 2145

Delta R.T. -0.00 min

Lab File: VU028279.D

Acq: 20 Nov 2018 15:35

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 97 Resp: 34790

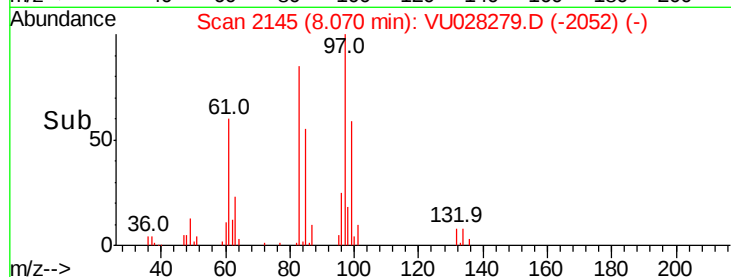
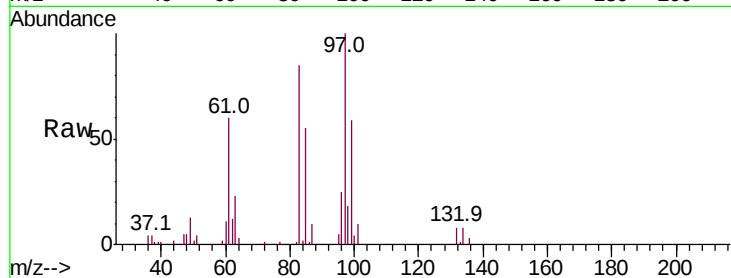
Ion	Ratio	Lower	Upper
97	100		
99	58.8	44.2	82.0
83	84.5	63.3	117.5
85	54.5	41.9	77.9

97 100

99 58.8 44.2 82.0

83 84.5 63.3 117.5

85 54.5 41.9 77.9



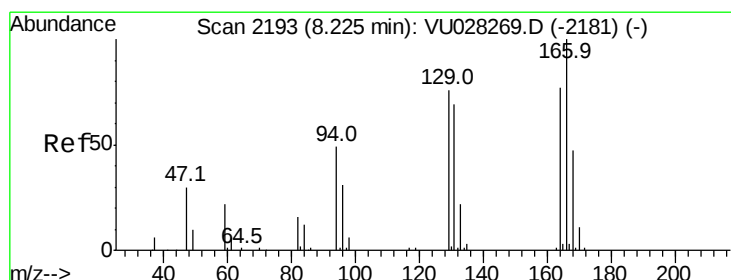
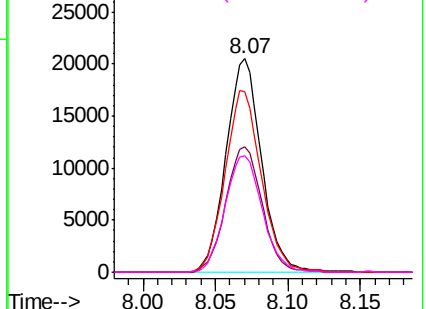
Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 4.645 ug/L

RT: 8.23 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VU028279.D

Acq: 20 Nov 2018 15:35

Tgt Ion:164 Resp: 33669

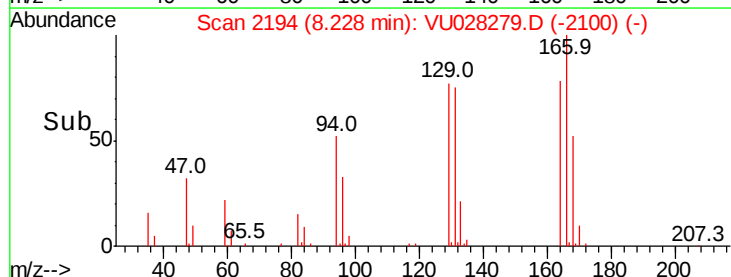
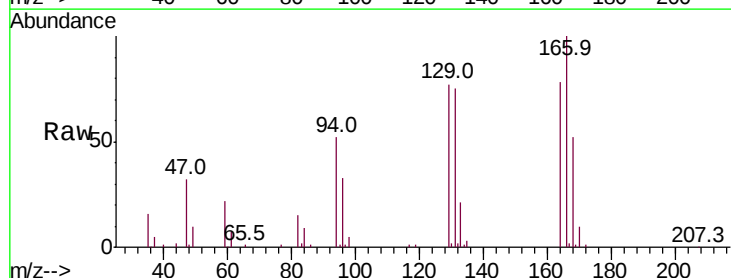
Ion	Ratio	Lower	Upper
164	100		
129	99.3	67.6	125.6
131	96.1	66.3	123.1
166	128.6	89.2	165.6

164 100

129 99.3 67.6 125.6

131 96.1 66.3 123.1

166 128.6 89.2 165.6



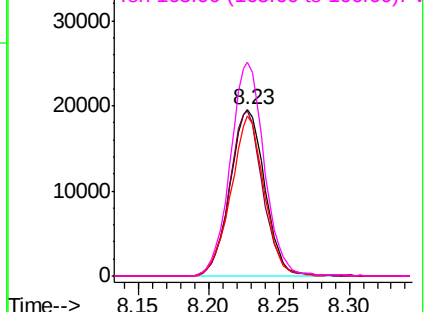
Abundance

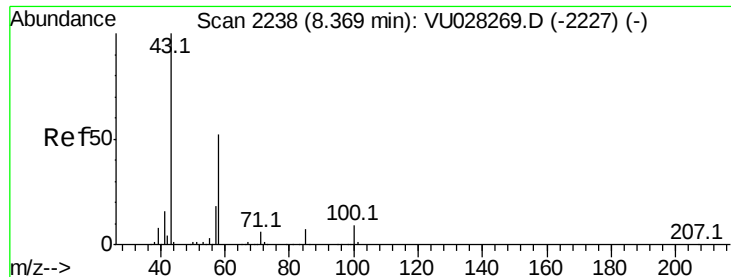
Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

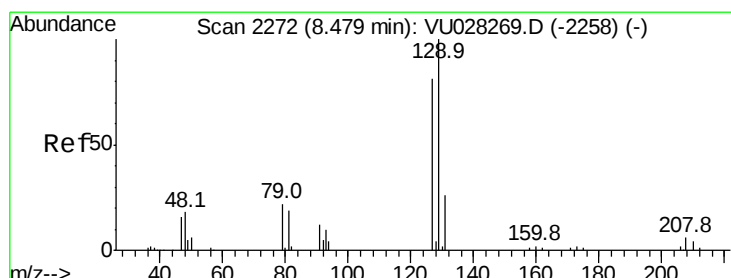
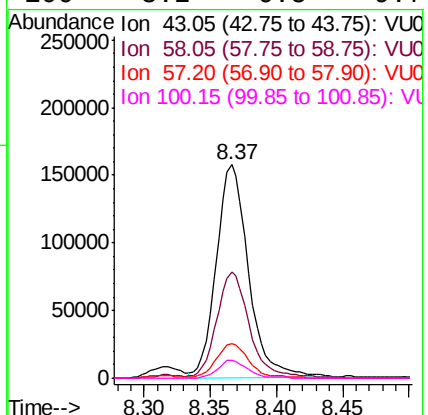
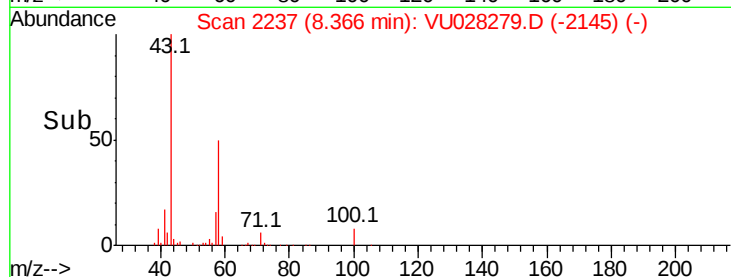
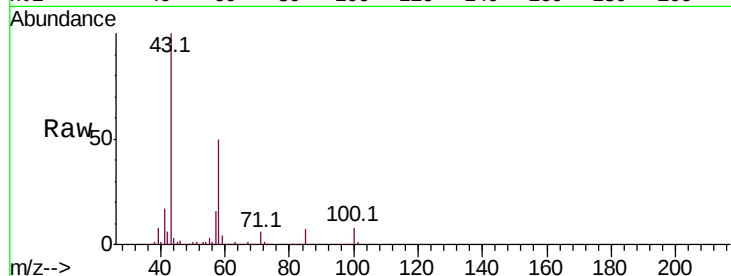




#48
2-Hexanone
Concen: 42.630 ug/L
RT: 8.37 min Scan# 2237
Delta R.T. -0.00 min
Lab File: VU028279.D
Acq: 20 Nov 2018 15:35

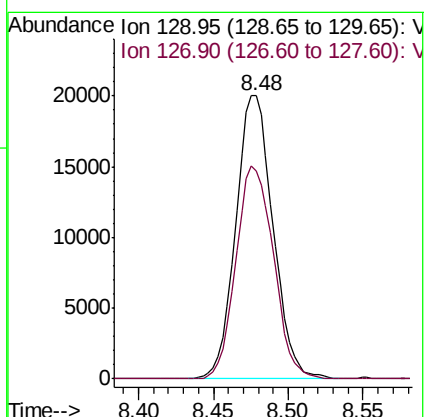
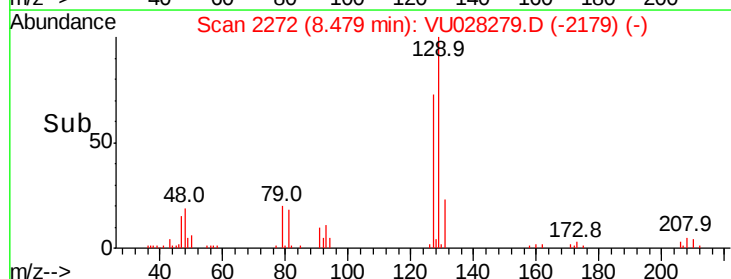
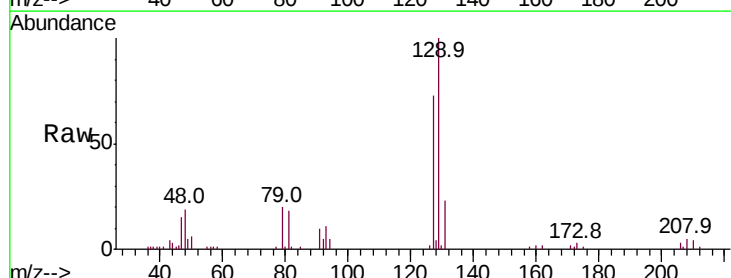
Instrument :
MSVOA_U
ClientSampleId :

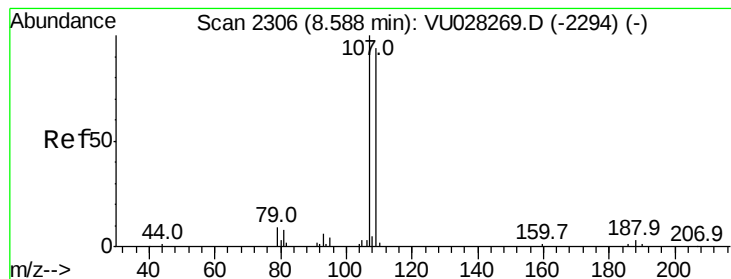
Tot Ion: 43 Resp: 264480
Ion Ratio Lower Upper
43 100
58 51.0 41.1 61.7
57 16.4 13.8 20.8
100 8.2 6.5 9.7



#49
Dibromochloromethane
Concen: 4.660 ug/L
RT: 8.48 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VU028279.D
Acq: 20 Nov 2018 15:35

Tgt Ion: 129 Resp: 34690
Ion Ratio Lower Upper
129 100
127 73.3 54.7 101.5





#50

1,2-Dibromoethane

Concen: 4.483 ug/L

RT: 8.59 min Scan# 2306

Delta R.T. -0.00 min

Lab File: VU028279.D

Acq: 20 Nov 2018 15:35

Instrument :

MSVOA_U

ClientSampleId :

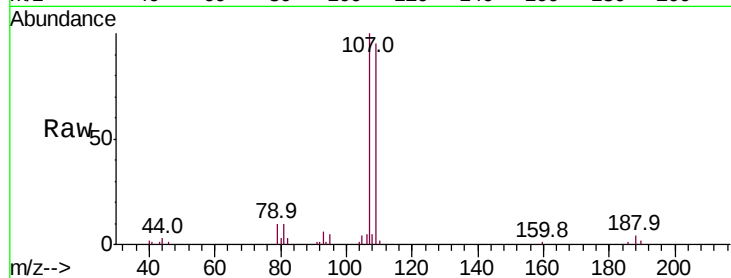
Tot Ion:107 Resp: 29798

Ion Ratio Lower Upper

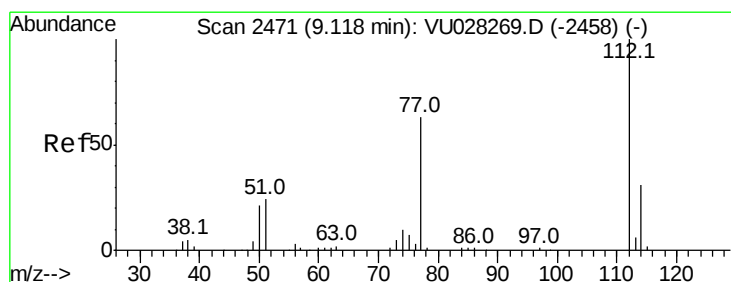
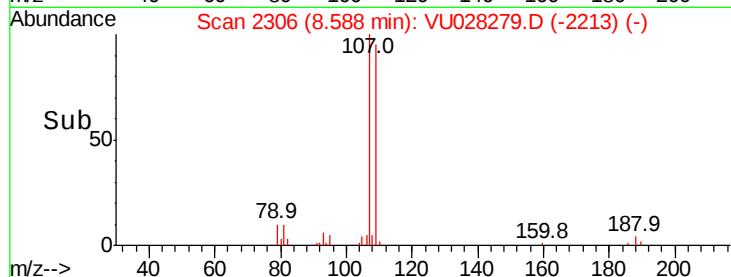
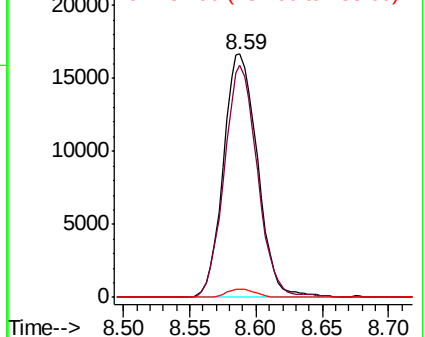
107 100

109 95.3 63.7 118.3

188 3.5 2.5 3.7



Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V



#51

Chlorobenzene

Concen: 4.850 ug/L

RT: 9.12 min Scan# 2471

Delta R.T. -0.00 min

Lab File: VU028279.D

Acq: 20 Nov 2018 15:35

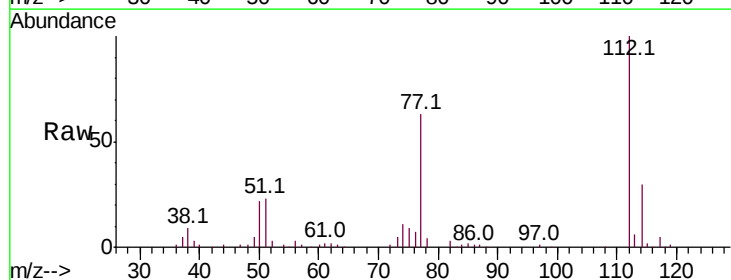
Tgt Ion:112 Resp: 120764

Ion Ratio Lower Upper

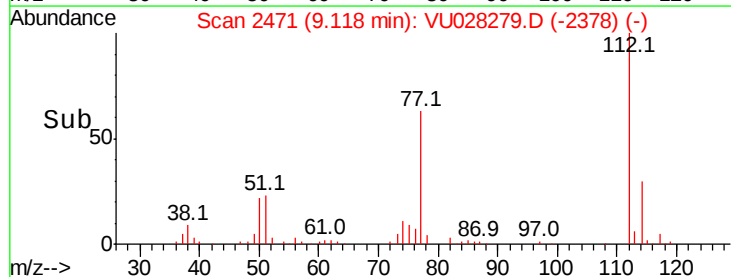
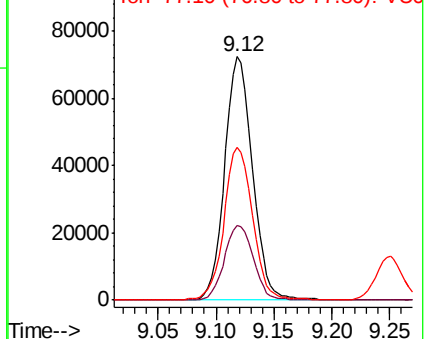
112 100

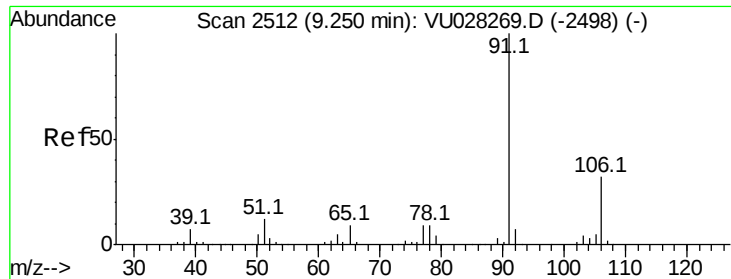
114 30.5 22.3 41.5

77 62.8 52.4 78.6



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

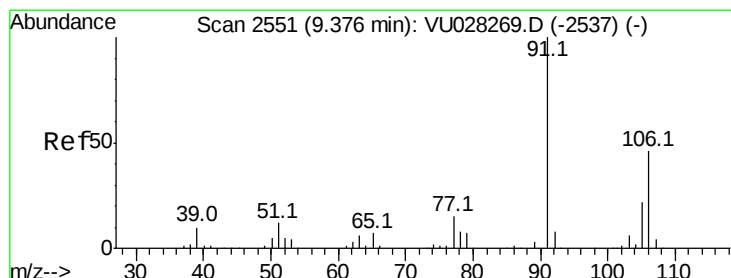
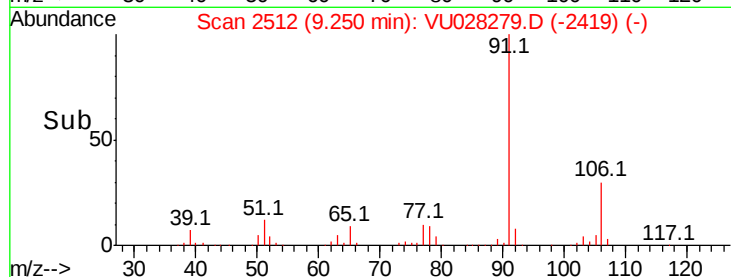
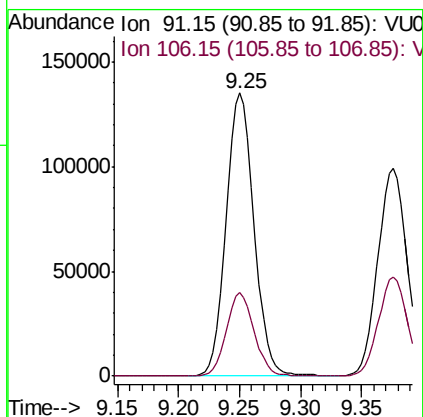
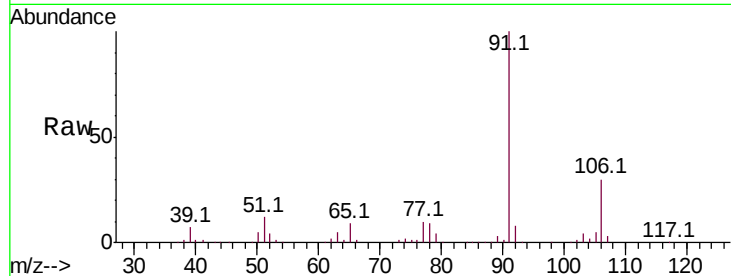




#52
Ethylbenzene
Concen: 4.667 ug/L
RT: 9.25 min Scan# 2512
Delta R.T. -0.00 min
Lab File: VU028279.D
Acq: 20 Nov 2018 15:35

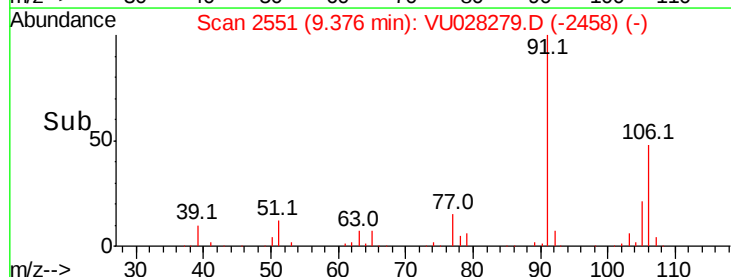
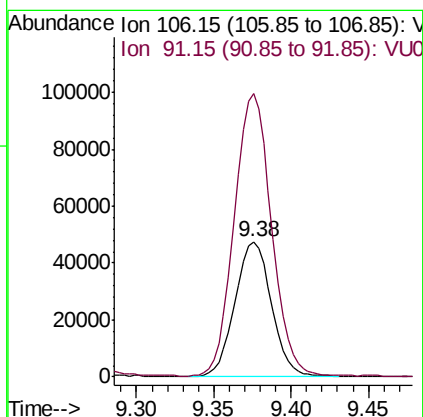
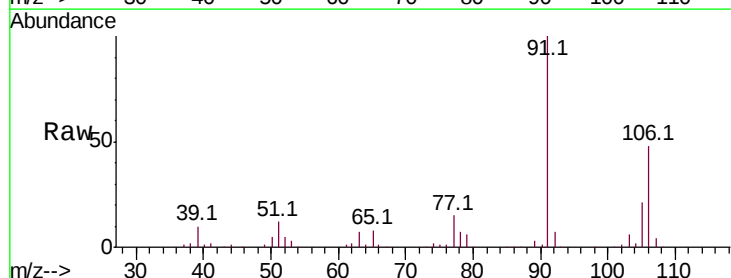
Instrument :
MSVOA_U
ClientSampled :

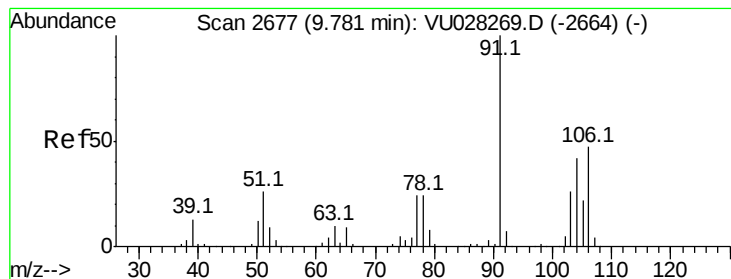
Tot Ion: 91 Resp: 217150
Ion Ratio Lower Upper
91 100
106 29.6 19.3 35.9



#53
m,p-xylene
Concen: 4.854 ug/L
RT: 9.38 min Scan# 2551
Delta R.T. -0.00 min
Lab File: VU028279.D
Acq: 20 Nov 2018 15:35

Tgt Ion: 106 Resp: 78350
Ion Ratio Lower Upper
106 100
91 209.4 150.6 279.6





#54

o-xylene

Concen: 4.756 ug/L

RT: 9.78 min Scan# 2676

Delta R.T. -0.00 min

Lab File: VU028279.D

Acq: 20 Nov 2018 15:35

Instrument :

MSVOA_U

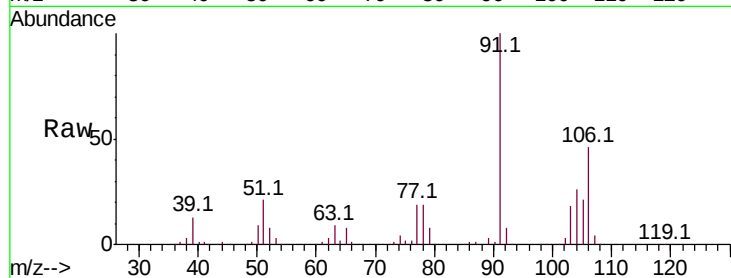
ClientSampled :

Tot Ion:106 Resp: 76692

Ion Ratio Lower Upper

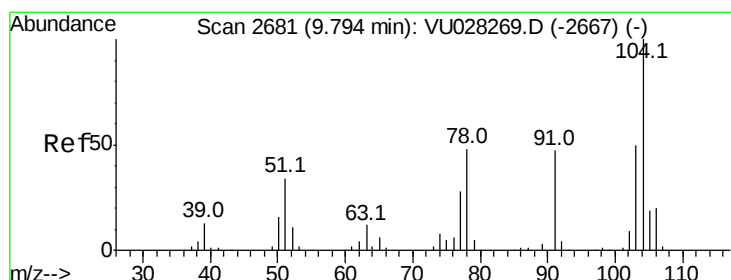
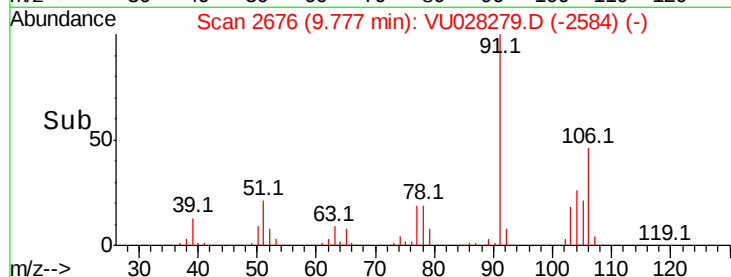
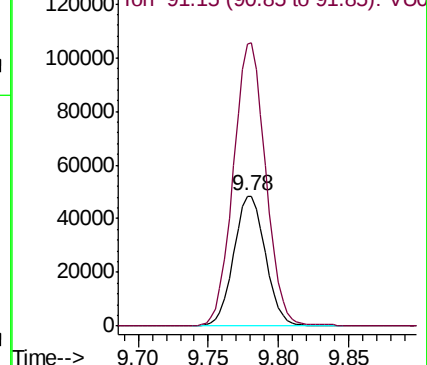
106 100

91 216.7 157.5 292.5



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 4.719 ug/L

RT: 9.79 min Scan# 2681

Delta R.T. -0.00 min

Lab File: VU028279.D

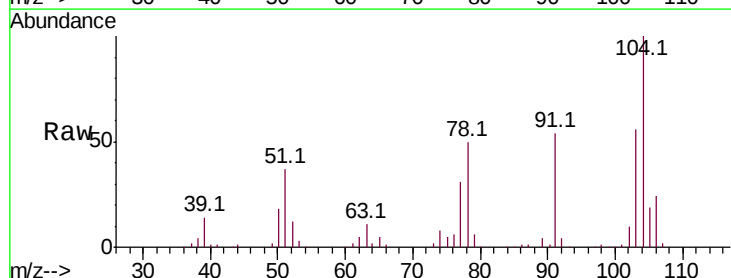
Acq: 20 Nov 2018 15:35

Tgt Ion:104 Resp: 127741

Ion Ratio Lower Upper

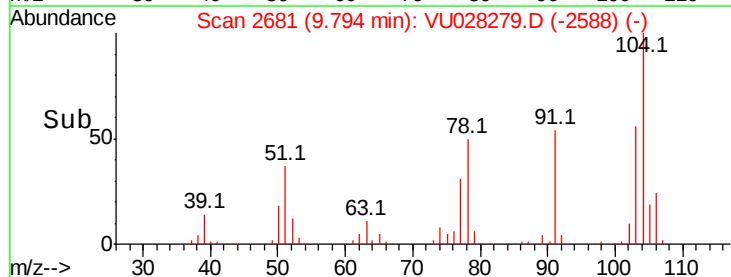
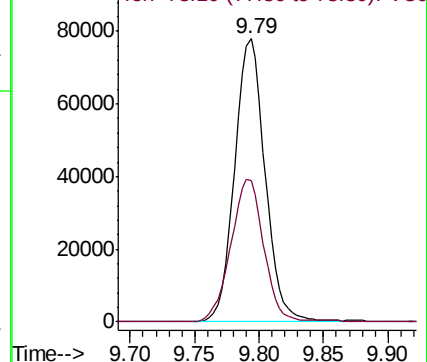
104 100

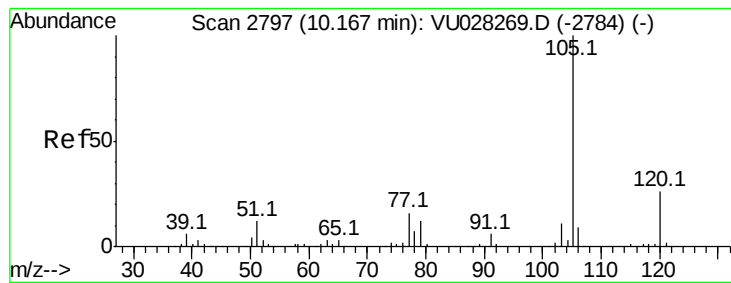
78 50.0 33.4 62.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 4.677 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. -0.00 min

Lab File: VU028279.D

Acq: 20 Nov 2018 15:35

Instrument :

MSVOA_U

ClientSampleId :

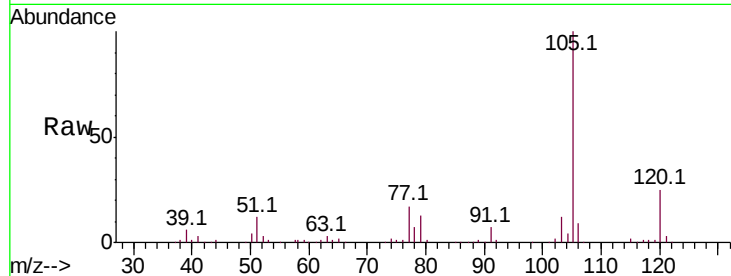
Tot Ion:105 Resp: 201989

Ion Ratio Lower Upper

105 100

120 25.3 20.3 30.5

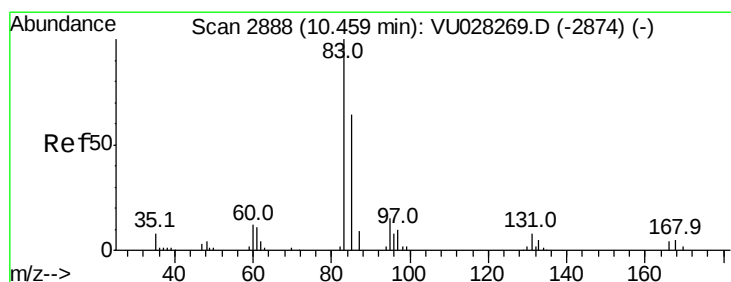
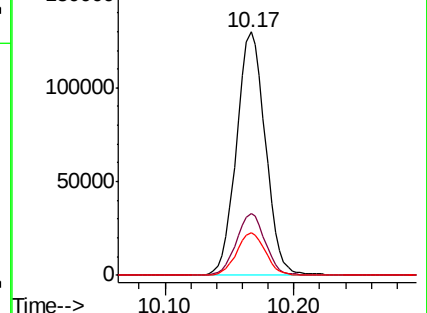
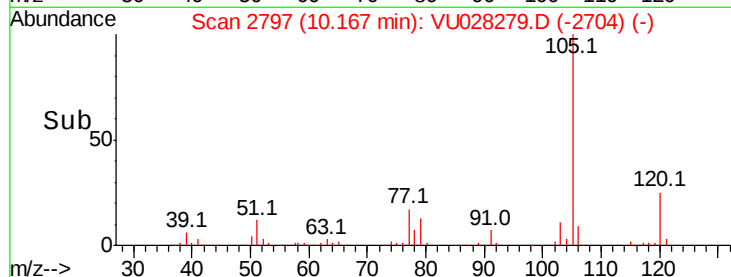
77 17.6 14.5 21.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.875 ug/L

RT: 10.46 min Scan# 2888

Delta R.T. -0.00 min

Lab File: VU028279.D

Acq: 20 Nov 2018 15:35

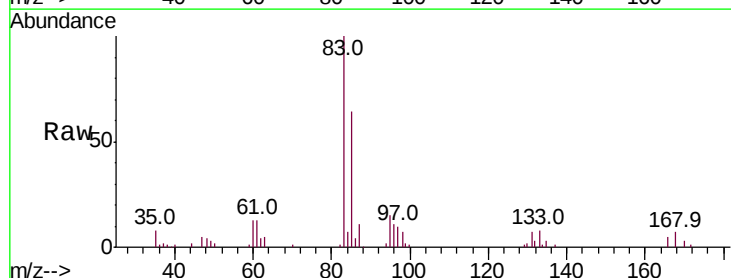
Tgt Ion: 83 Resp: 46089

Ion Ratio Lower Upper

83 100

85 63.6 46.1 85.5

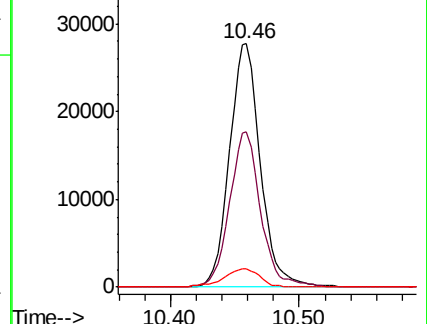
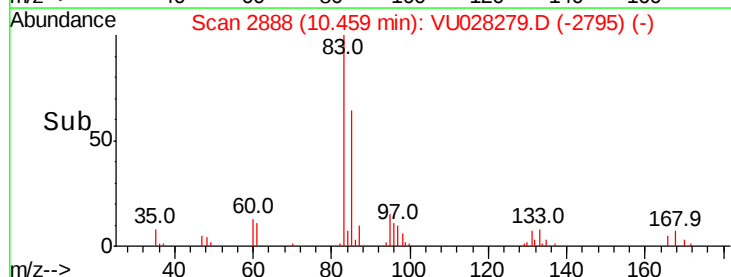
131 7.4 6.2 9.2

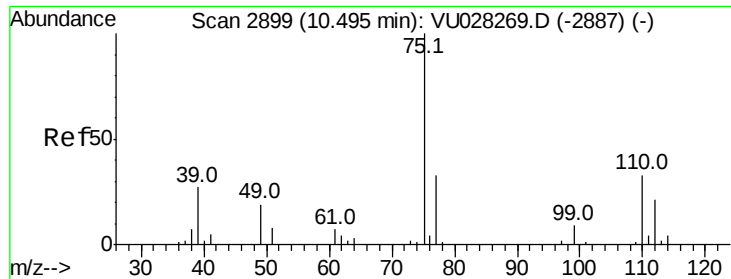


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.403 ug/L

RT: 10.49 min Scan# 2899

Delta R.T. -0.00 min

Lab File: VU028279.D

Acq: 20 Nov 2018 15:35

Instrument :

MSVOA_U

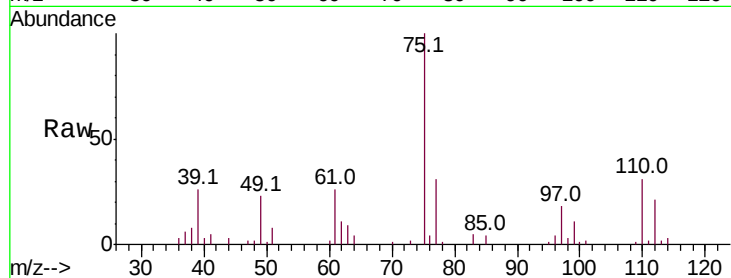
ClientSampleId :

Tot Ion: 75 Resp: 30965

Ion Ratio Lower Upper

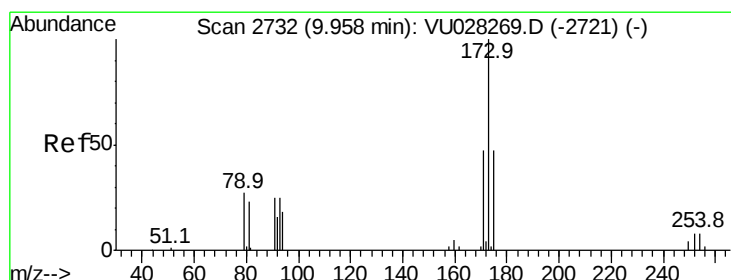
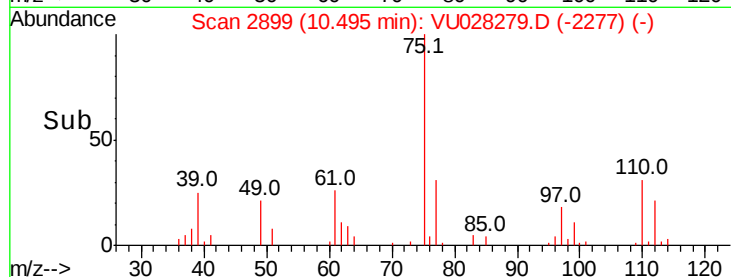
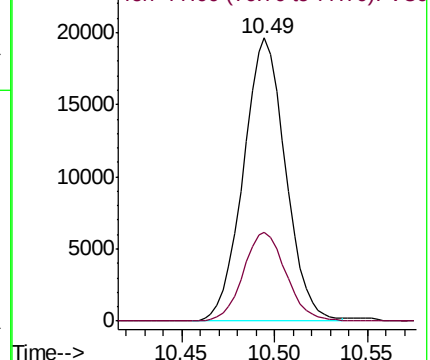
75 100

77 31.6 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#61

Bromoform

Concen: 4.916 ug/L

RT: 9.96 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU028279.D

Acq: 20 Nov 2018 15:35

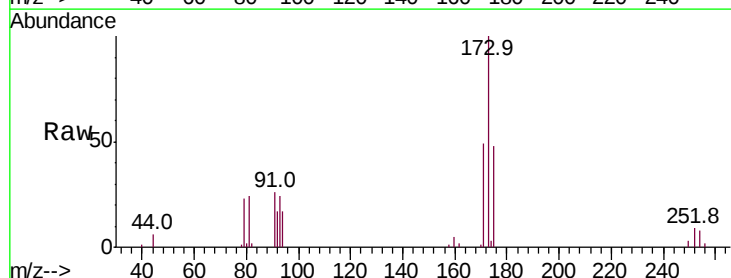
Tgt Ion:173 Resp: 18759

Ion Ratio Lower Upper

173 100

175 49.7 38.7 58.1

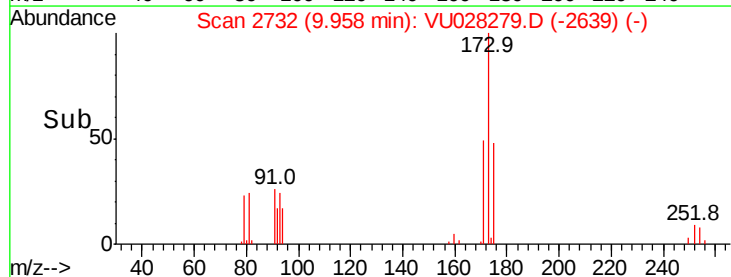
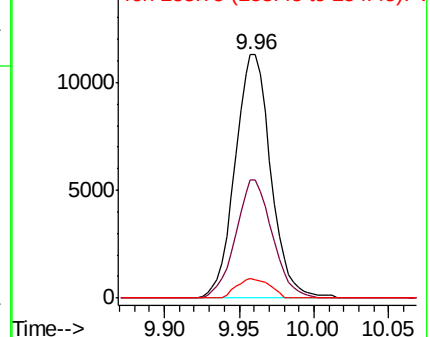
254 7.3 6.6 10.0

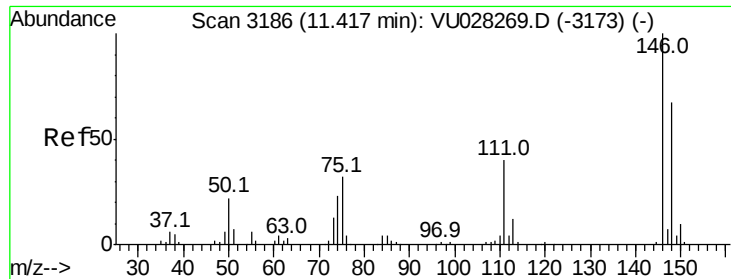


Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 253.75 (253.45 to 254.45): V

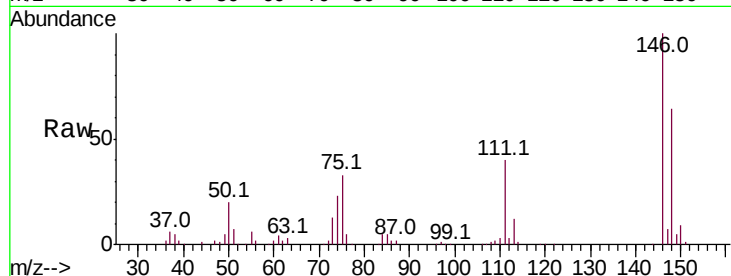




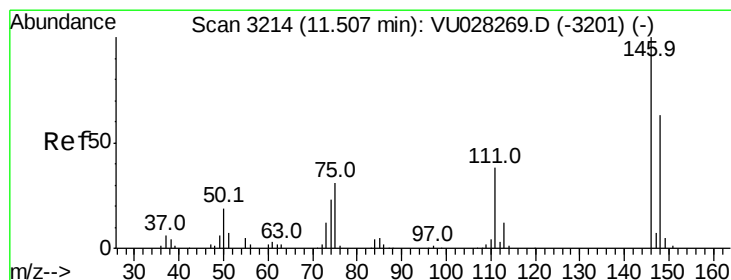
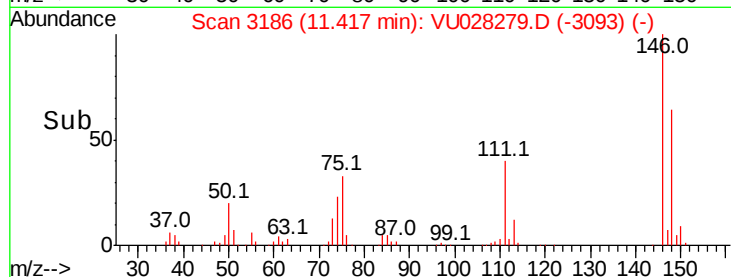
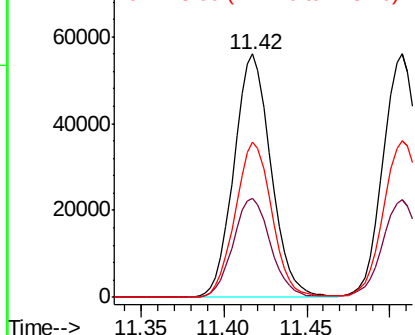
#62
1,3-Dichlorobenzene
Concen: 4.759 ug/L
RT: 11.42 min Scan# 3186
Delta R.T. -0.00 min
Lab File: VU028279.D
Acq: 20 Nov 2018 15:35

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:146 Resp: 87174
Ion Ratio Lower Upper
146 100
111 40.5 30.4 56.4
148 63.8 45.3 84.1

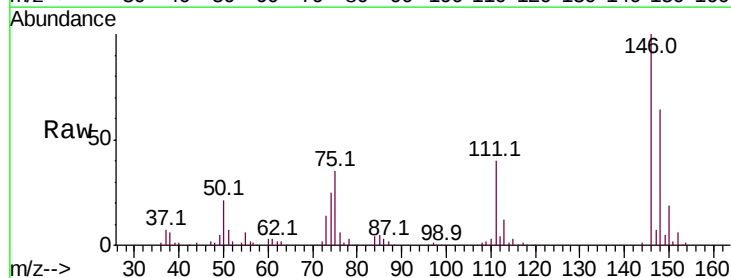


Abundance Ion 145.95 (145.65 to 146.65): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V

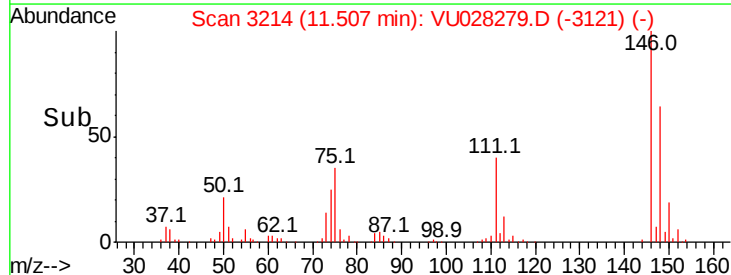
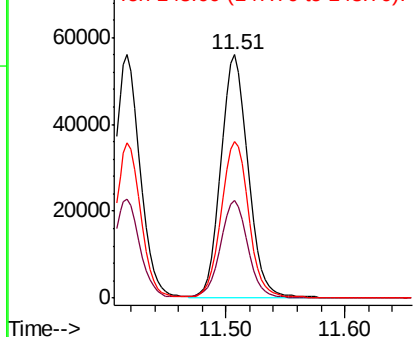


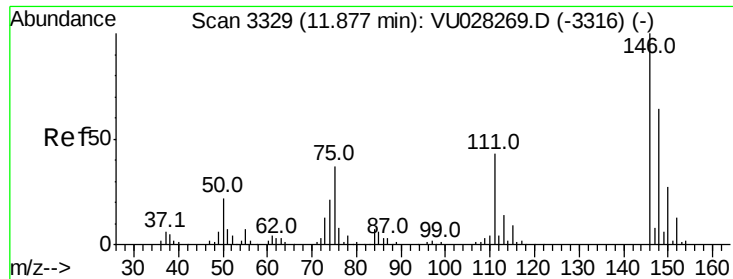
#63
1,4-Dichlorobenzene
Concen: 4.791 ug/L
RT: 11.51 min Scan# 3214
Delta R.T. -0.00 min
Lab File: VU028279.D
Acq: 20 Nov 2018 15:35

Tgt Ion:146 Resp: 89517
Ion Ratio Lower Upper
146 100
111 39.9 28.9 53.7
148 64.2 44.5 82.7



Abundance Ion 145.95 (145.65 to 146.65): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V

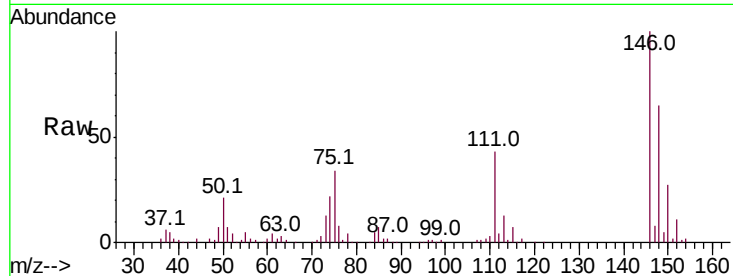




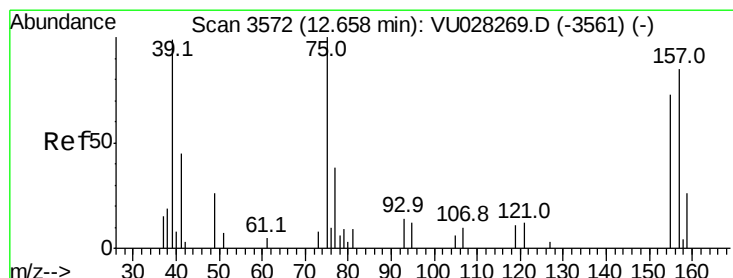
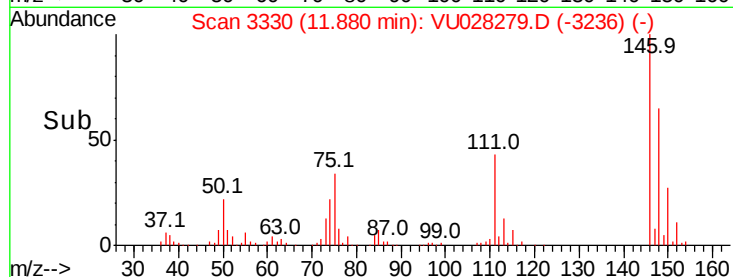
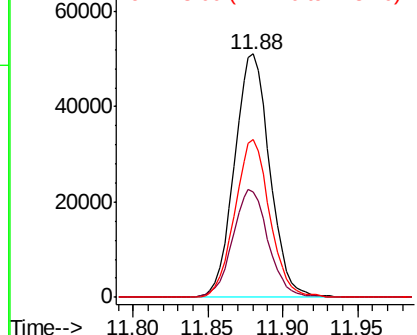
#65
 1,2-Dichlorobenzene
 Concen: 4.671 ug/L
 RT: 11.88 min Scan# 3330
 Delta R.T. 0.00 min
 Lab File: VU028279.D
 Acq: 20 Nov 2018 15:35

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:146 Resp: 83884
 Ion Ratio Lower Upper
 146 100
 111 43.4 34.7 52.1
 148 64.8 51.2 76.8

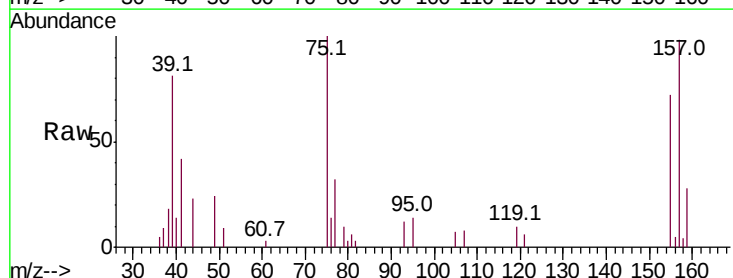


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

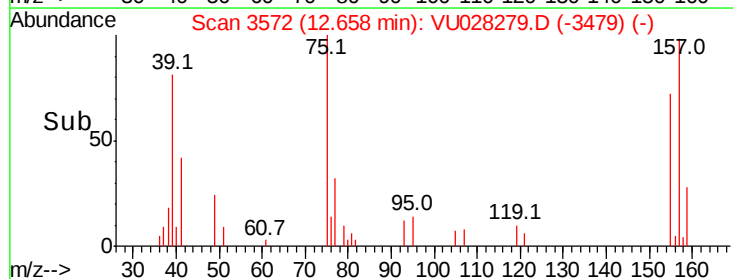
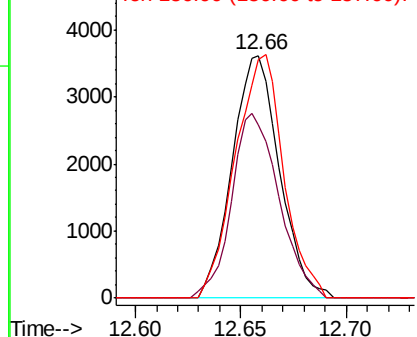


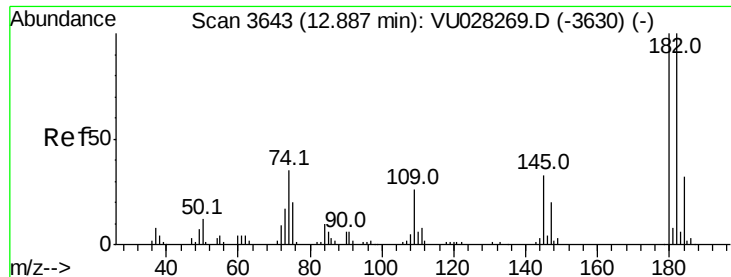
#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.031 ug/L
 RT: 12.66 min Scan# 3572
 Delta R.T. -0.00 min
 Lab File: VU028279.D
 Acq: 20 Nov 2018 15:35

Tgt Ion: 75 Resp: 5640
 Ion Ratio Lower Upper
 75 100
 155 71.6 46.1 69.1#
 157 98.2 67.0 100.6



Abundance Ion 75.05 (74.75 to 75.75): VU0
 Ion 154.95 (154.65 to 155.65): V
 Ion 156.90 (156.60 to 157.60): V

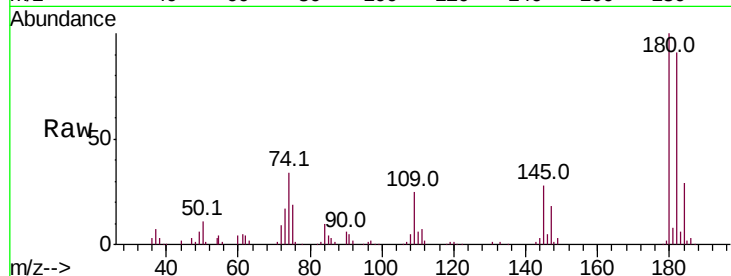




#67
 1,3,5-Trichlorobenzene
 Concen: 4.893 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. -0.00 min
 Lab File: VU028279.D
 Acq: 20 Nov 2018 15:35

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	91.4	77.5	116.3
184	29.6	23.7	35.5
145	28.2	24.2	36.4



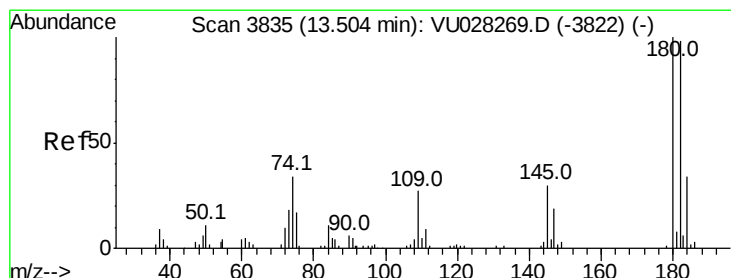
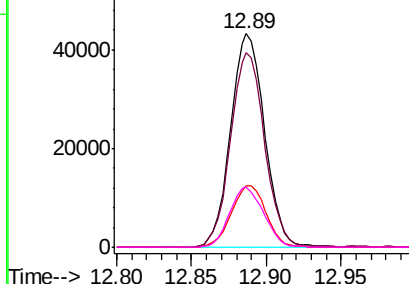
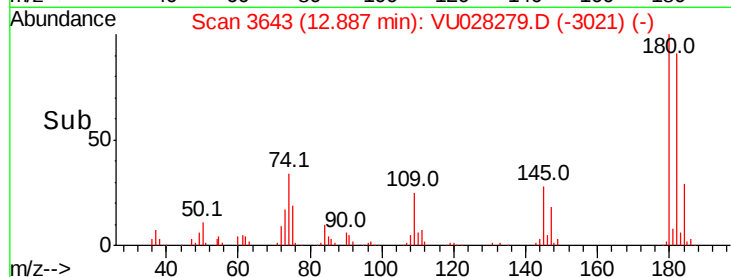
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

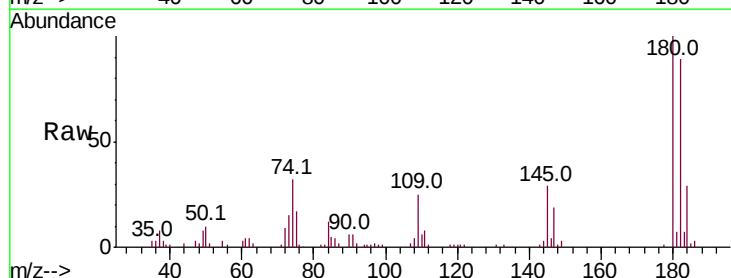
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.759 ug/L
 RT: 13.50 min Scan# 3835
 Delta R.T. -0.00 min
 Lab File: VU028279.D
 Acq: 20 Nov 2018 15:35

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.8	75.4	113.2
145	29.5	24.5	36.7

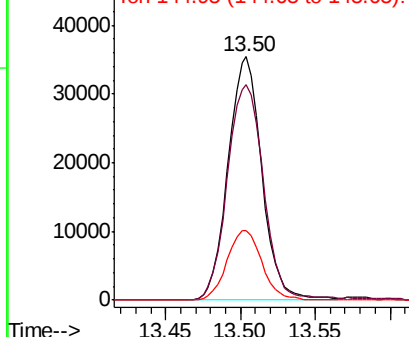
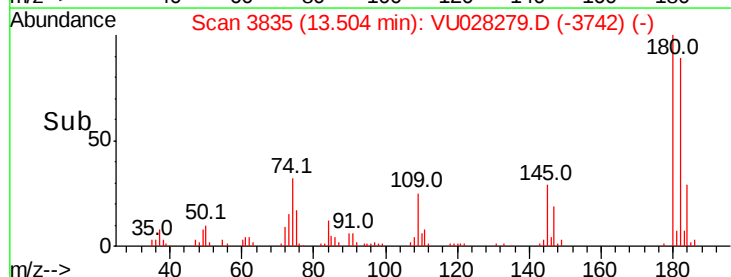


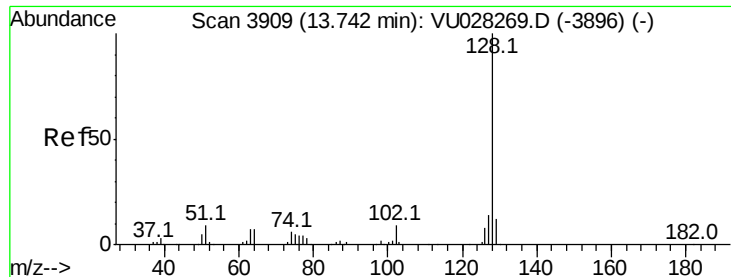
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.490 ug/L

RT: 13.74 min Scan# 3909

Delta R.T. -0.00 min

Lab File: VU028279.D

Acq: 20 Nov 2018 15:35

Instrument :

MSVOA_U

ClientSampleId :

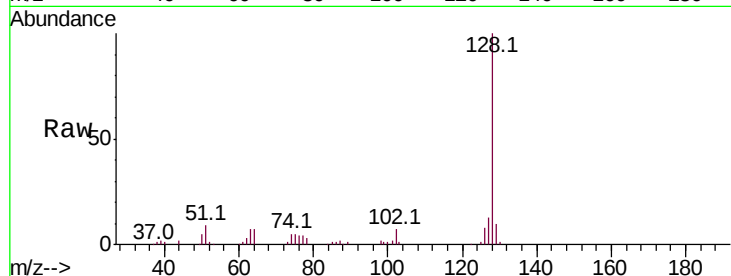
Tot Ion:128 Resp: 93410

Ion Ratio Lower Upper

128 100

129 10.5 8.6 12.8

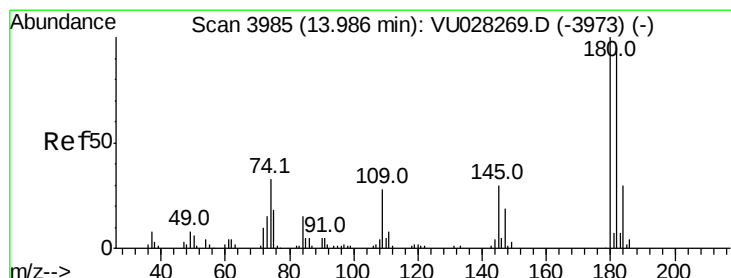
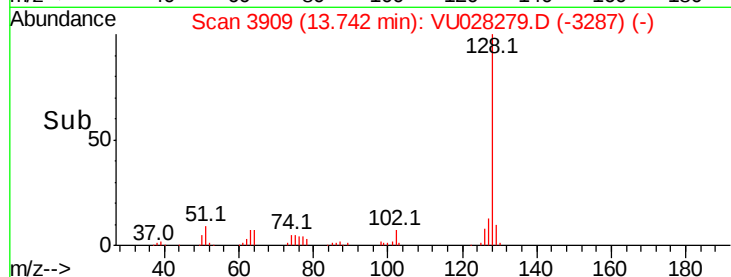
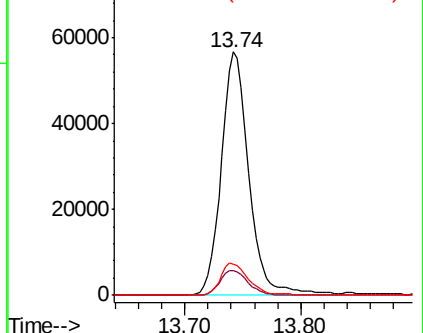
127 13.4 10.7 16.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.688 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. -0.00 min

Lab File: VU028279.D

Acq: 20 Nov 2018 15:35

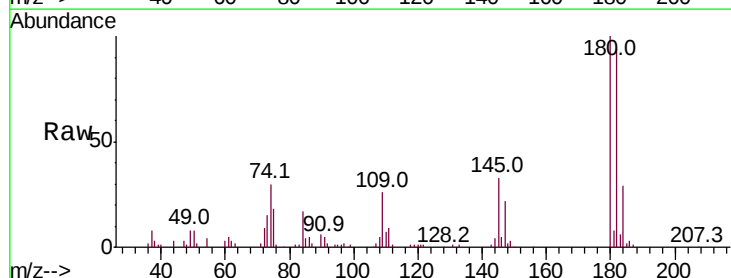
Tgt Ion:180 Resp: 51978

Ion Ratio Lower Upper

180 100

182 96.2 77.0 115.4

145 31.5 25.7 38.5



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

