

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU083119\
 Data File : VU034104.D
 Acq On : 30 Aug 2019 17:27
 Operator : JC/SP
 Sample : VU0831MBSD01
 Misc : 5.00g/10mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0831MBSD01

Quant Time: Aug 31 03:39:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 29 04:11:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	451770	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	730292	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	682365	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	354913	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	281683	48.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.32%	
35) Dibromofluoromethane	4.86	113	237660	46.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.84%	
50) Toluene-d8	7.55	98	925865	48.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.64%	
62) 4-Bromofluorobenzene	10.29	95	345423	46.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.64%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.20	85	85679	18.857	ug/l	100
3) Chloromethane	1.32	50	104776	15.839	ug/l	98
4) Vinyl Chloride	1.40	62	110380	18.253	ug/l	96
5) Bromomethane	1.62	94	58794	16.281	ug/l	97
6) Chloroethane	1.69	64	68034	18.402	ug/l	97
7) Trichlorofluoromethane	1.88	101	132265	18.876	ug/l	100
8) Diethyl Ether	2.09	74	60046	20.032	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	2.27	101	84255	18.981	ug/l	99
10) Methyl Iodide	2.40	142	57943	9.202	ug/l	99
11) Tert butyl alcohol	2.81	59	119018	89.158	ug/l	99
12) 1,1-Dichloroethene	2.27	96	88748	19.623	ug/l	95
13) Acrolein	2.18	56	40690	72.459	ug/l	95
14) Allyl chloride	2.58	41	144922	17.043	ug/l	91
15) Acrylonitrile	2.92	53	295942	96.612	ug/l	100
16) Acetone	2.31	43	248796	84.233	ug/l	98
17) Carbon Disulfide	2.46	76	248417	17.355	ug/l	100
18) Methyl Acetate	2.60	43	137767	18.049	ug/l	99
19) Methyl tert-butyl Ether	2.98	73	304533	20.551	ug/l	100
20) Methylene Chloride	2.68	84	105200	18.814	ug/l	98
21) trans-1,2-Dichloroethene	2.97	96	95599	19.477	ug/l	98
22) Diisopropyl ether	3.55	45	317934	20.404	ug/l	97
23) Vinyl Acetate	3.50	43	1334824	99.724	ug/l	100
24) 1,1-Dichloroethane	3.43	63	181449	19.724	ug/l	99
25) 2-Butanone	4.24	43	392592	95.537	ug/l	99
26) 2,2-Dichloropropane	4.20	77	139112	18.584	ug/l	98
27) cis-1,2-Dichloroethene	4.20	96	109307	19.840	ug/l	99
28) Bromochloromethane	4.52	49	85661	18.900	ug/l	99
29) Tetrahydrofuran	4.61	42	252273	99.547	ug/l	99
30) Chloroform	4.65	83	177397	19.328	ug/l	98
31) Cyclohexane	4.97	56	158793	18.370	ug/l	95
32) 1,1,1-Trichloroethane	4.89	97	148025	19.692	ug/l	98
36) 1,1-Dichloropropene	5.12	75	129745	18.783	ug/l	99
37) Ethyl Acetate	4.36	43	146129	18.891	ug/l	98
38) Carbon Tetrachloride	5.11	117	121903	18.283	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.40	83	134355	16.502	ug/l	99
40) Benzene	5.37	78	403140	19.290	ug/l	100
41) Methacrylonitrile	4.52	41	77062	19.425	ug/l	98
42) 1,2-Dichloroethane	5.38	62	136593	18.927	ug/l	98
43) Isopropyl Acetate	5.53	43	226658	19.260	ug/l	100
44) Trichloroethene	6.17	130	108210	19.717	ug/l	98
45) 1,2-Dichloropropane	6.41	63	108813	18.914	ug/l	99
46) Dibromomethane	6.54	93	70558	19.036	ug/l	100
47) Bromodichloromethane	6.74	83	135380	18.669	ug/l	99
48) Methyl methacrylate	6.60	41	105254	18.535	ug/l	97
49) 1,4-Dioxane	6.59	88	47326	332.617	ug/l	97
51) 4-Methyl-2-Pentanone	7.44	43	757274	93.179	ug/l	100
52) Toluene	7.62	92	253403	19.683	ug/l	99
53) t-1,3-Dichloropropene	7.86	75	150280	18.677	ug/l	100
54) cis-1,3-Dichloropropene	7.25	75	168076	19.120	ug/l	99
55) 1,1,2-Trichloroethane	8.05	97	100955	18.538	ug/l	97
56) Ethyl methacrylate	8.00	69	157026	18.017	ug/l	99
57) 1,3-Dichloropropane	8.22	76	175746	19.007	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.11	63	282155	93.654	ug/l	98
59) 2-Hexanone	8.34	43	568229	92.617	ug/l	99
60) Dibromochloromethane	8.46	129	105958	18.126	ug/l	99
61) 1,2-Dibromoethane	8.57	107	106278	18.526	ug/l	98
64) Tetrachloroethene	8.21	164	92962	20.286	ug/l	98
65) Chlorobenzene	9.10	112	277720	19.777	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.19	131	96221	18.897	ug/l	98
67) Ethyl Benzene	9.23	91	474983	19.954	ug/l	100
68) m/p-Xylenes	9.36	106	363352	40.144	ug/l	100
69) o-Xylene	9.76	106	174490	20.094	ug/l	100
70) Styrene	9.77	104	304552	20.455	ug/l	100
71) Bromoform	9.94	173	79942	18.070	ug/l #	99
73) Isopropylbenzene	10.15	105	461191	19.346	ug/l	100
74) N-amyl acetate	10.00	43	197262	19.674	ug/l	97
75) 1,1,2,2-Tetrachloroethane	10.44	83	172322	18.886	ug/l	99
76) 1,2,3-Trichloropropane	10.48	75	185857	23.235	ug/l	87
77) Bromobenzene	10.43	156	125091	19.506	ug/l	100
78) n-propylbenzene	10.57	91	525905	18.943	ug/l	99
79) 2-Chlorotoluene	10.64	91	325067	19.521	ug/l	99
80) 1,3,5-Trimethylbenzene	10.76	105	385897	19.099	ug/l	100
81) trans-1,4-Dichloro-2-buten	10.48	75	186650	78.571	ug/l #	100
82) 4-Chlorotoluene	10.76	91	377796	19.727	ug/l	100
83) tert-Butylbenzene	11.08	119	354305	17.813	ug/l	100
84) 1,2,4-Trimethylbenzene	11.13	105	390124	19.444	ug/l	99
85) sec-Butylbenzene	11.31	105	405700	17.018	ug/l	99
86) p-Isopropyltoluene	11.46	119	373411	17.319	ug/l	100
87) 1,3-Dichlorobenzene	11.40	146	219186	19.306	ug/l	99
88) 1,4-Dichlorobenzene	11.49	146	220780	19.229	ug/l	99
89) n-Butylbenzene	11.87	91	317079	16.680	ug/l	99
90) Hexachloroethane	12.12	117	53848	14.445	ug/l	98
91) 1,2-Dichlorobenzene	11.86	146	215365	19.803	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.64	75	33193	18.260	ug/l	98

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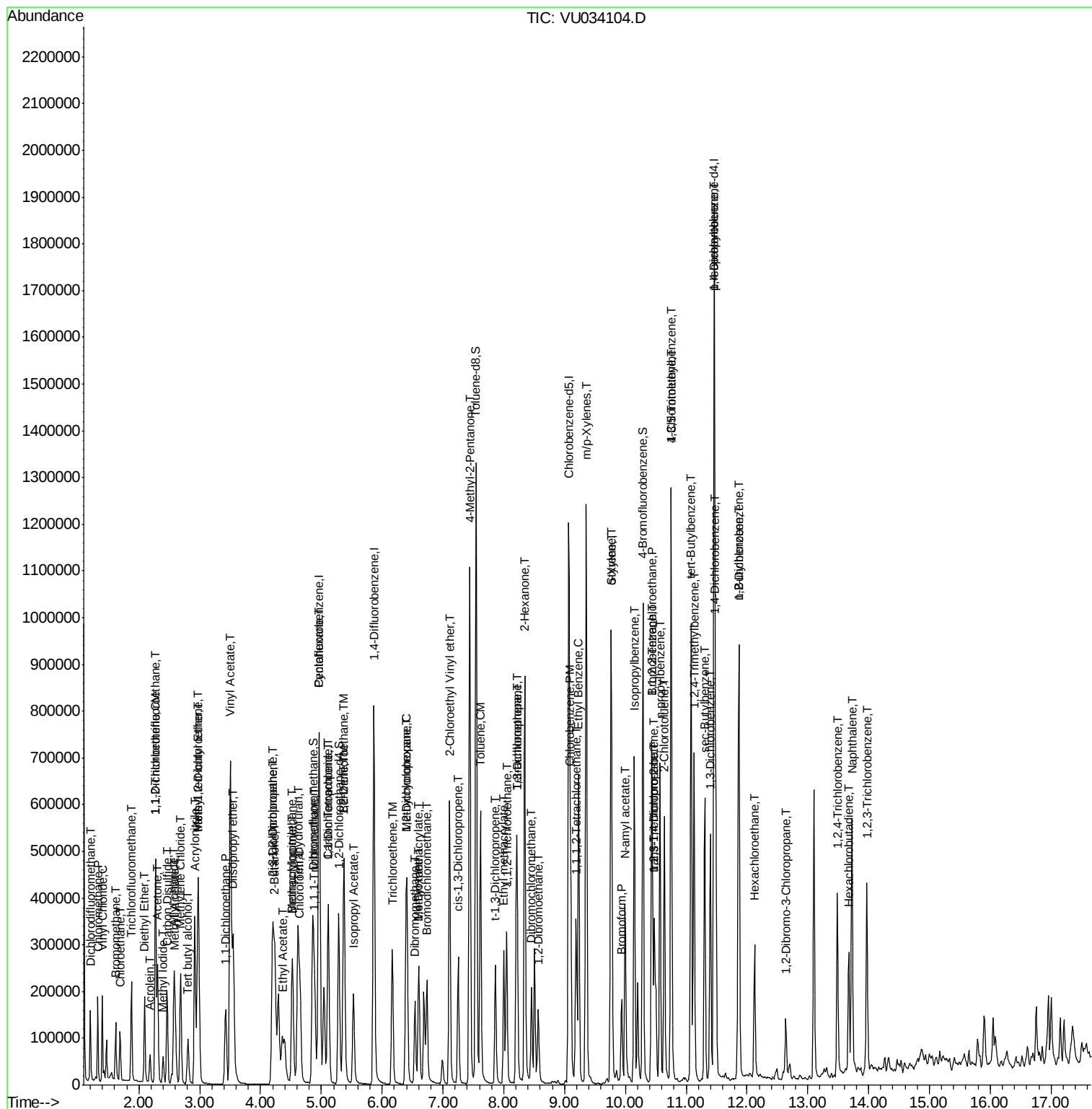
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.49	180	136248	18.335	ug/l	98
94) Hexachlorobutadiene	13.67	225	51287	12.055	ug/l	100
95) Naphthalene	13.73	128	455456	21.613	ug/l	100
96) 1,2,3-Trichlorobenzene	13.97	180	138605	19.895	ug/l	97

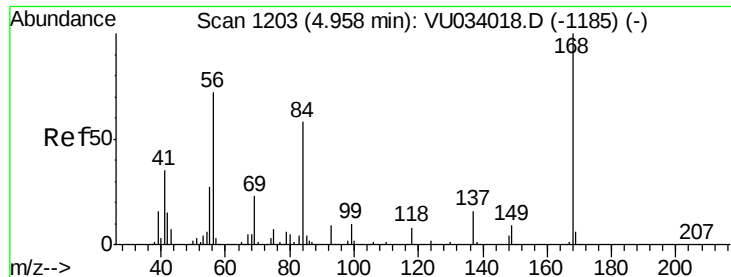
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_U\DATA\VU083119\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

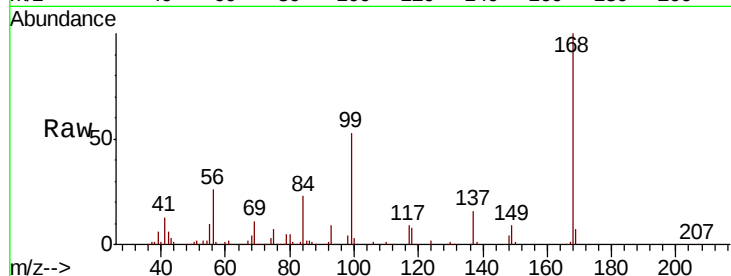
VU0831MBSD01

Tgt Ion:168 Resp: 451770

Ion Ratio Lower Upper

168 100

99 53.0 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034104.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034104.D (-1185) (-)

4.96

200000

150000

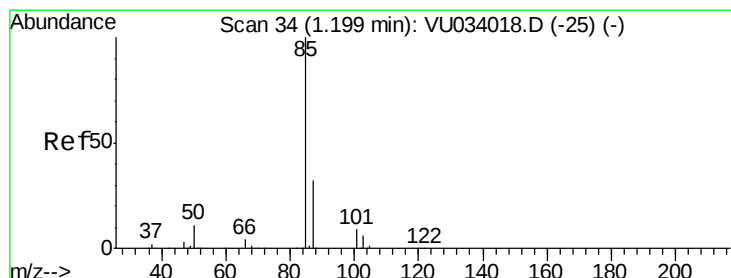
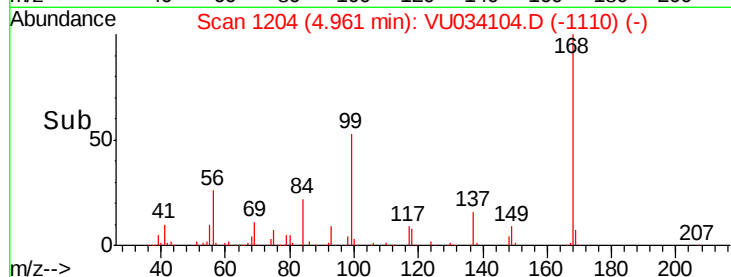
100000

50000

0

4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 18.857 ug/l

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU034104.D

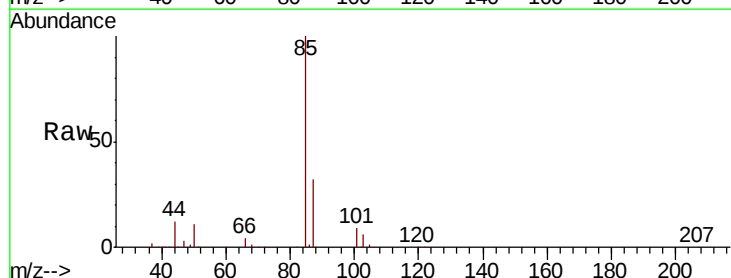
Acq: 30 Aug 2019 17:27

Tgt Ion: 85 Resp: 85679

Ion Ratio Lower Upper

85 100

87 32.1 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VU034104.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VU034104.D (-1) (-)

1.20

100000

80000

60000

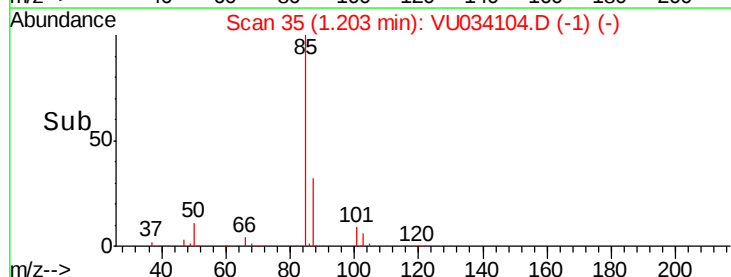
40000

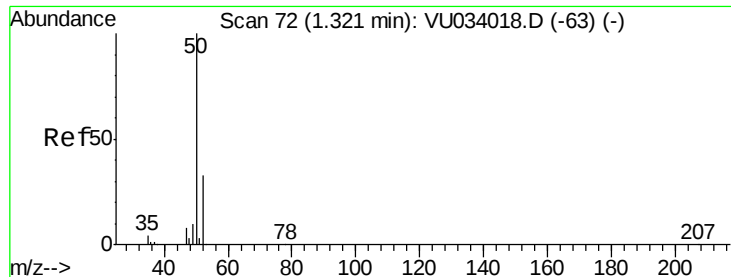
20000

0

1.15 1.20 1.25

Time-->





#3

Chloromethane

Concen: 15.839 ug/l

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

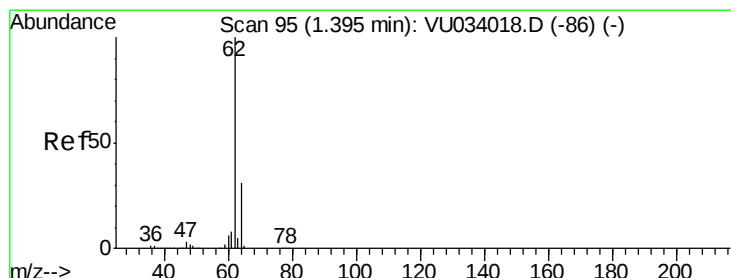
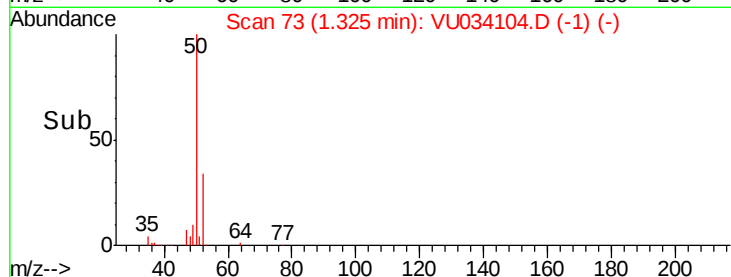
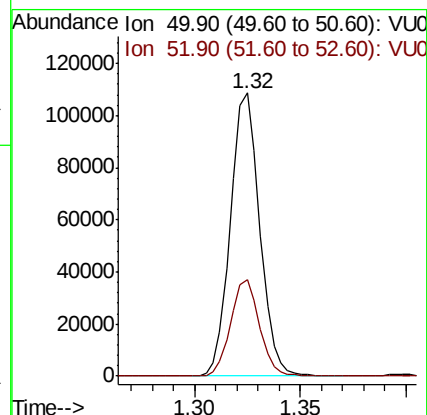
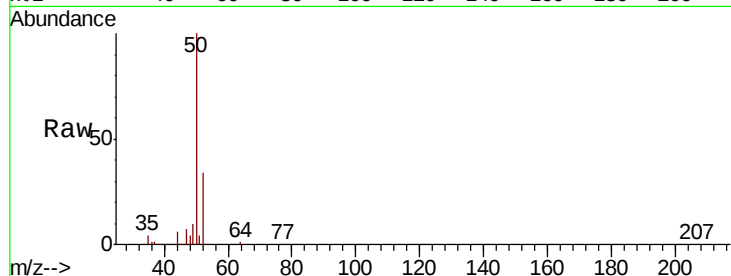
VU0831MBSD01

Tgt Ion: 50 Resp: 104776

Ion Ratio Lower Upper

50 100

52 34.0 26.2 39.4



#4

Vinyl Chloride

Concen: 18.253 ug/l

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU034104.D

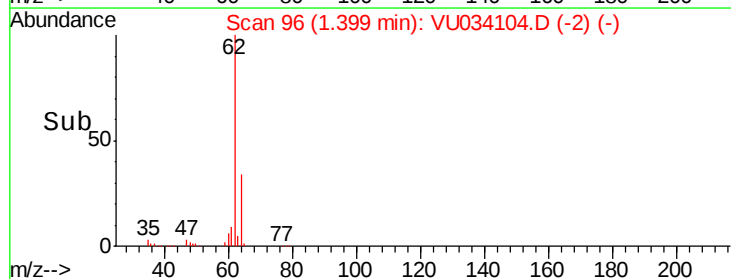
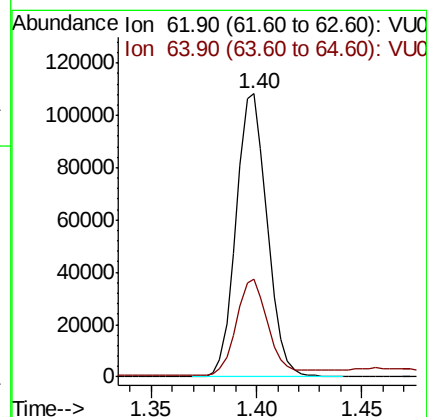
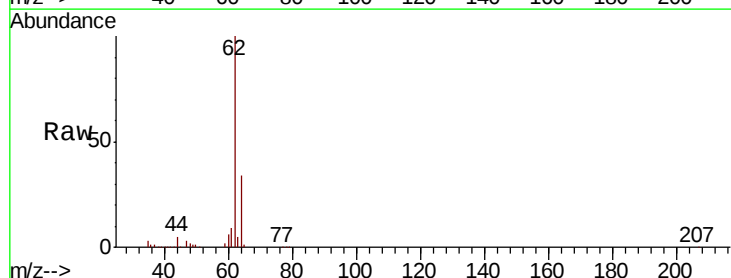
Acq: 30 Aug 2019 17:27

Tgt Ion: 62 Resp: 110380

Ion Ratio Lower Upper

62 100

64 33.7 25.0 37.6





#5

Bromomethane

Concen: 16.281 ug/l

RT: 1.62 min Scan# 164

Delta R.T. 0.02 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

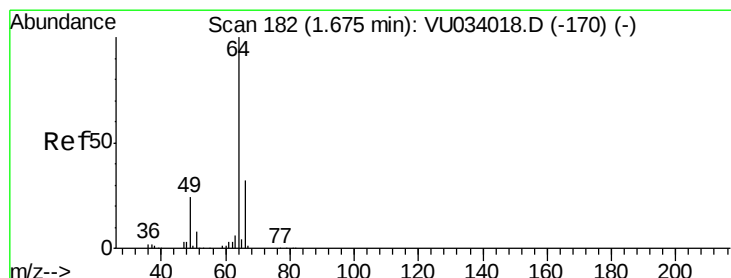
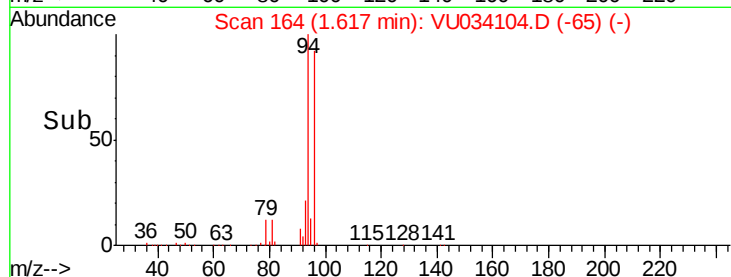
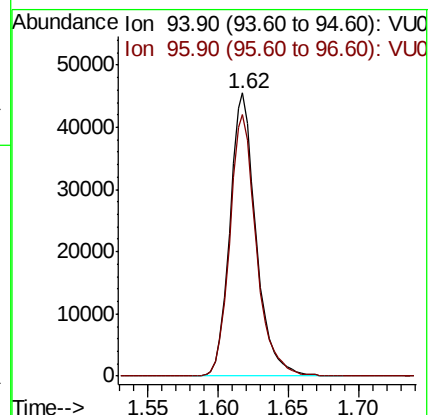
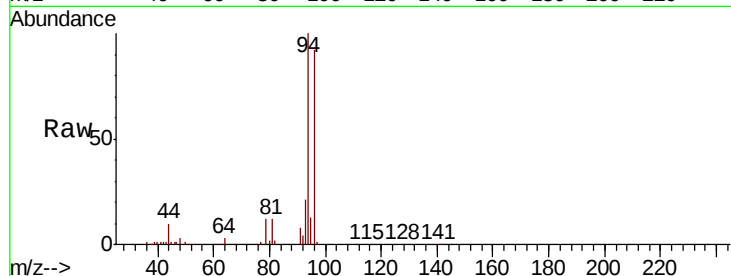
VU0831MBS01

Tgt Ion: 94 Resp: 58794

Ion Ratio Lower Upper

94 100

96 92.4 76.3 114.5



#6

Chloroethane

Concen: 18.402 ug/l

RT: 1.69 min Scan# 187

Delta R.T. 0.02 min

Lab File: VU034104.D

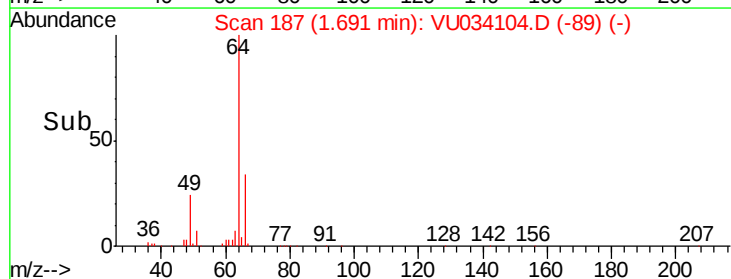
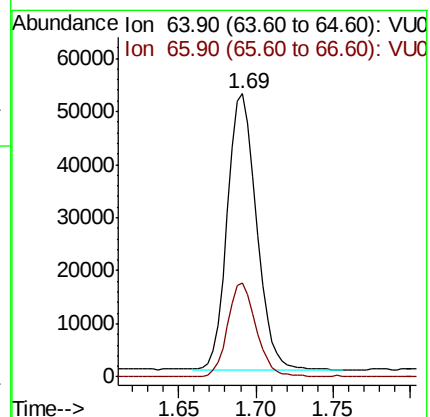
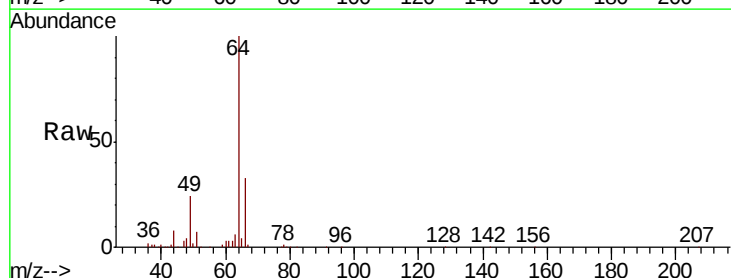
Acq: 30 Aug 2019 17:27

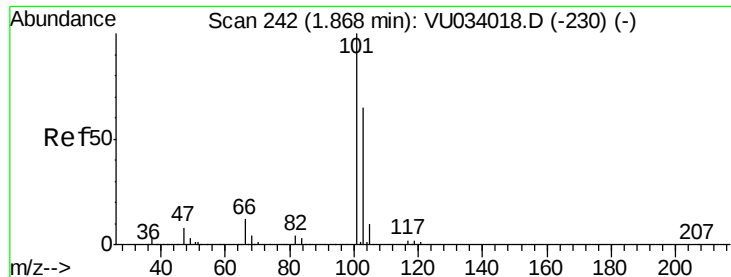
Tgt Ion: 64 Resp: 68034

Ion Ratio Lower Upper

64 100

66 33.6 25.5 38.3



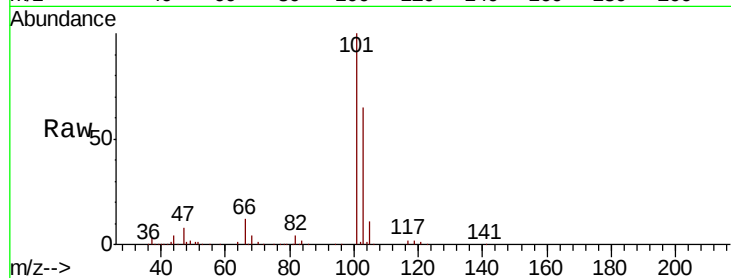


#7

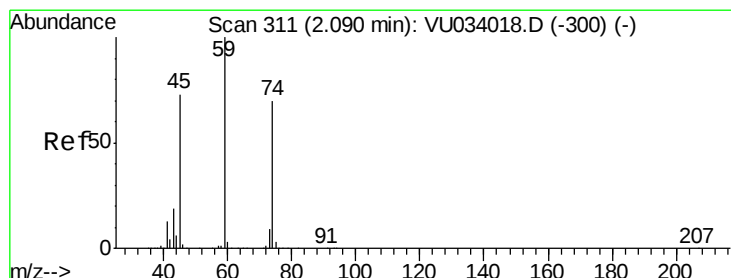
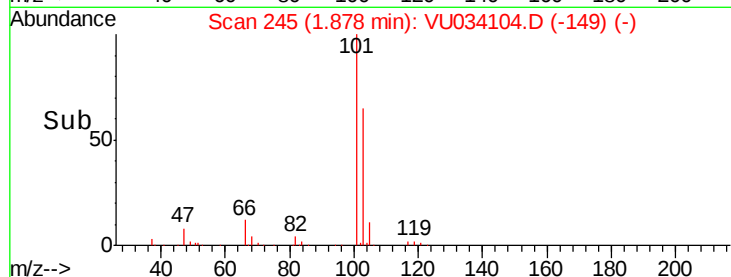
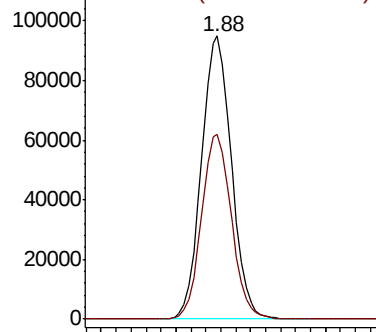
Trichlorofluoromethane
Concen: 18.876 ug/l
RT: 1.88 min Scan# 245
Delta R.T. 0.01 min
Lab File: VU034104.D
Acq: 30 Aug 2019 17:27

Instrument :
MSVOA_U
ClientSampleId :
VU0831MBS01

Tgt Ion:101 Resp: 132265
Ion Ratio Lower Upper
101 100
103 65.3 52.1 78.1



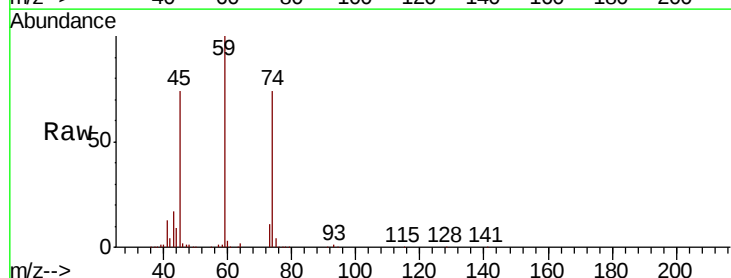
Abundance Ion 100.90 (100.60 to 101.60): V
Ion 102.80 (102.50 to 103.50): V



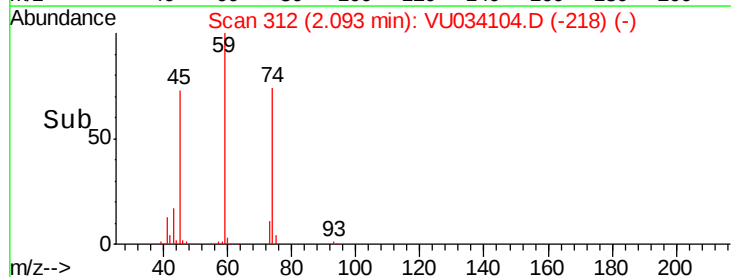
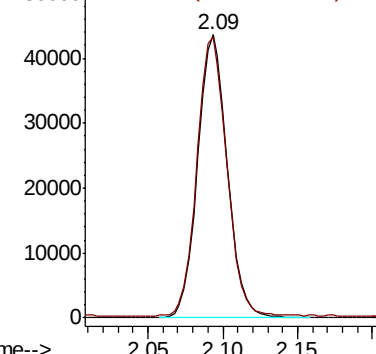
#8

Diethyl Ether
Concen: 20.032 ug/l
RT: 2.09 min Scan# 312
Delta R.T. 0.00 min
Lab File: VU034104.D
Acq: 30 Aug 2019 17:27

Tgt Ion: 74 Resp: 60046
Ion Ratio Lower Upper
74 100
45 99.8 51.8 155.5



Abundance Ion 74.00 (73.70 to 74.70): VU0
Ion 45.00 (44.70 to 45.70): VU0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.981 ug/l

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

VU0831MBSD01

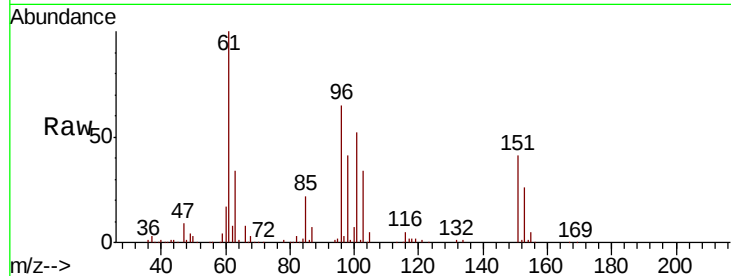
Tgt Ion:101 Resp: 84255

Ion Ratio Lower Upper

101 100

85 42.4 34.2 51.2

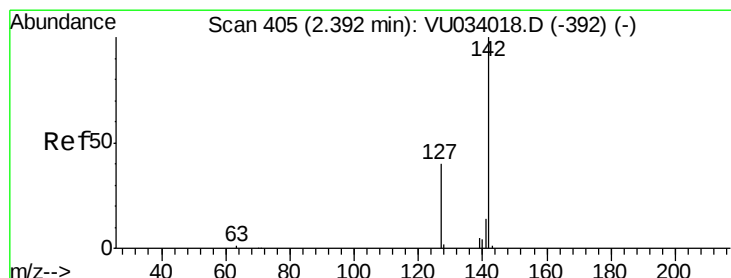
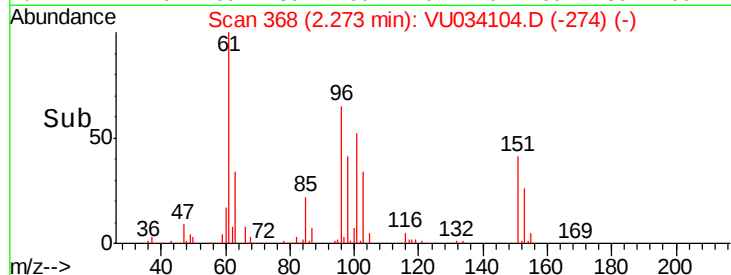
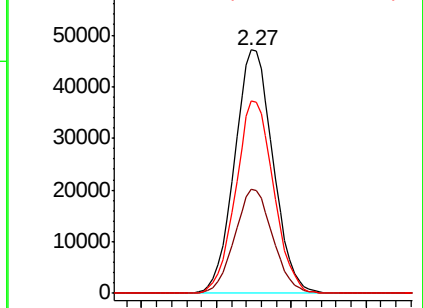
151 77.9 61.4 92.2



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: 9.202 ug/l

RT: 2.40 min Scan# 407

Delta R.T. 0.01 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

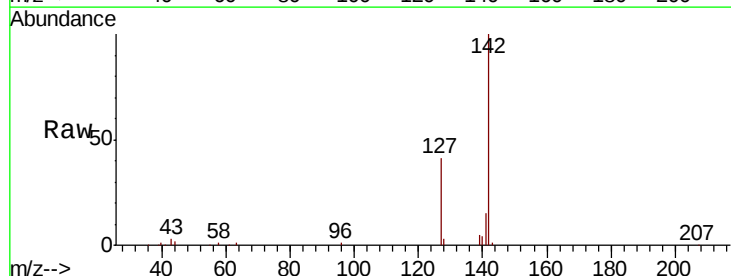
Tgt Ion:142 Resp: 57943

Ion Ratio Lower Upper

142 100

127 40.6 32.6 48.8

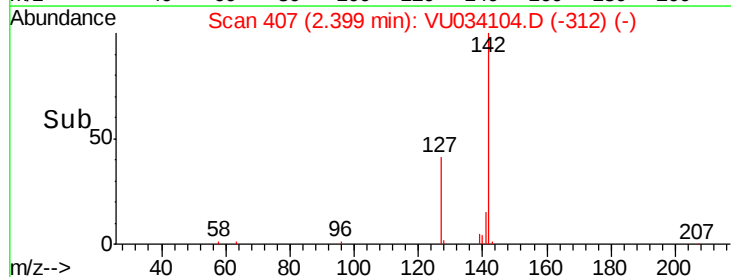
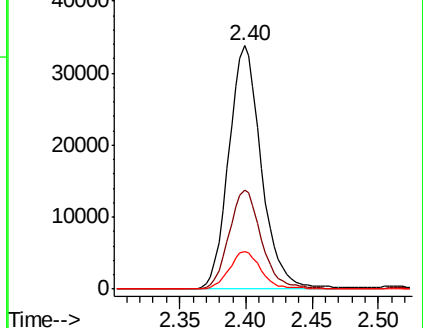
141 14.9 11.3 16.9

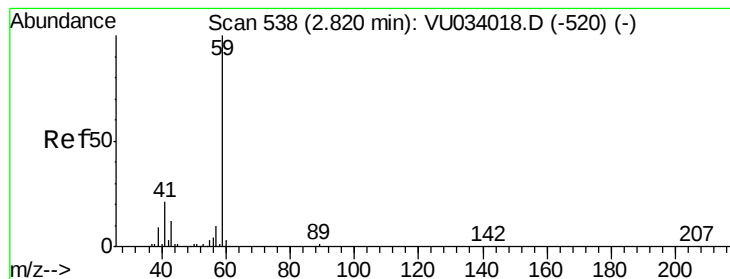


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



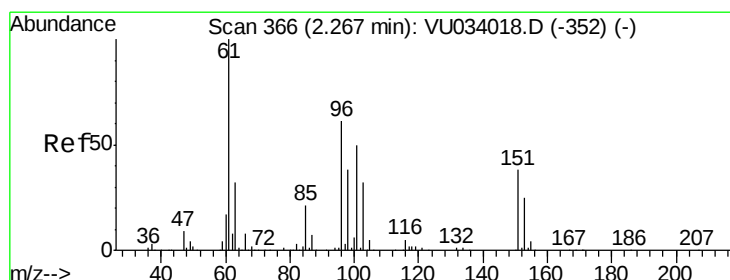
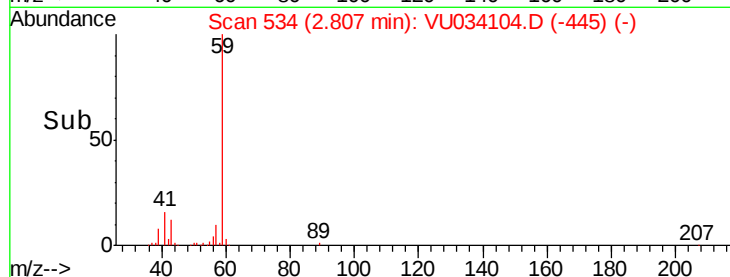
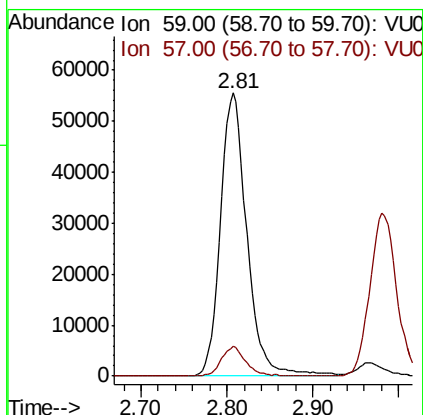
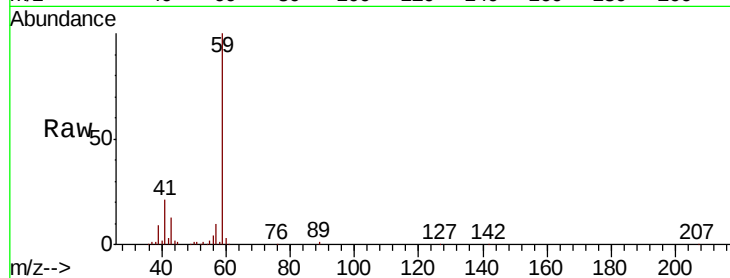


#11

Tert butyl alcohol
 Concen: 89.158 ug/l
 RT: 2.81 min Scan# 534
 Delta R.T. -0.01 min
 Lab File: VU034104.D
 Acq: 30 Aug 2019 17:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0831MBSD01

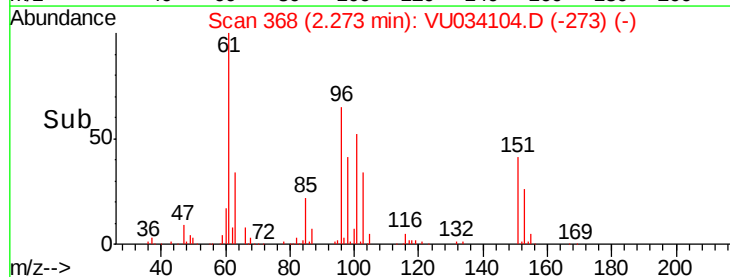
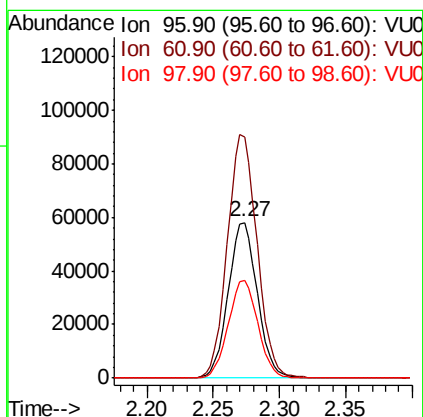
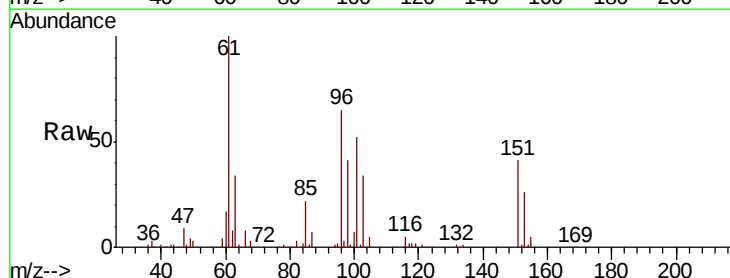
Tgt Ion: 59 Resp: 119018
 Ion Ratio Lower Upper
 59 100
 57 9.7 8.0 12.0

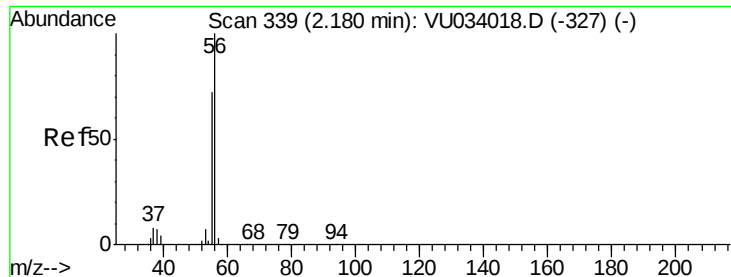


#12

1,1-Dichloroethene
 Concen: 19.623 ug/l
 RT: 2.27 min Scan# 368
 Delta R.T. 0.01 min
 Lab File: VU034104.D
 Acq: 30 Aug 2019 17:27

Tgt Ion: 96 Resp: 88748
 Ion Ratio Lower Upper
 96 100
 61 154.5 131.3 196.9
 98 62.7 50.3 75.5





#13

Acrolein

Concen: 72.459 ug/l

RT: 2.18 min Scan# 340

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

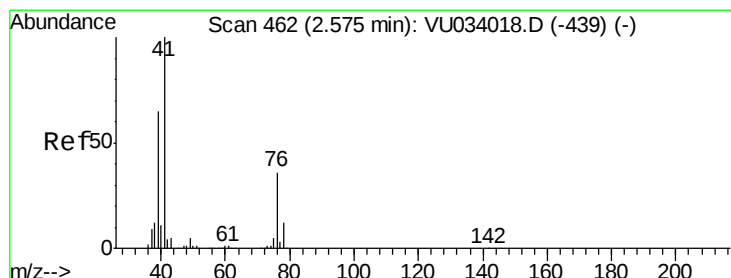
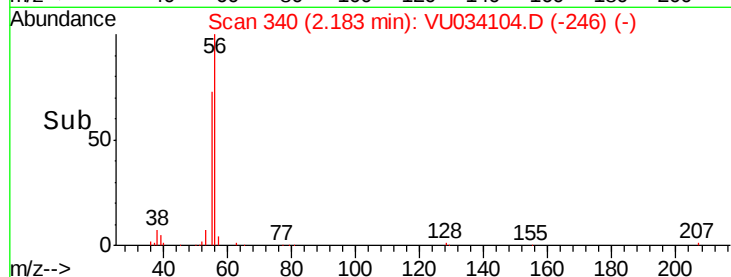
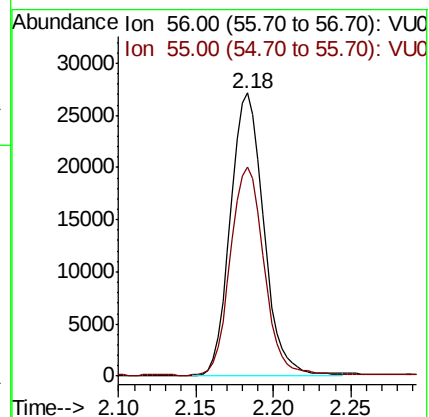
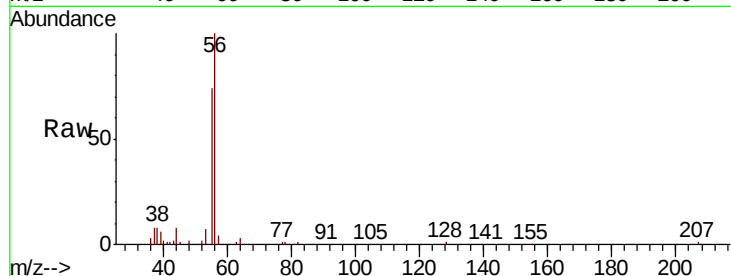
VU0831MBSD01

Tgt Ion: 56 Resp: 40690

Ion Ratio Lower Upper

56 100

55 75.2 57.1 85.7



#14

Allyl chloride

Concen: 17.043 ug/l

RT: 2.58 min Scan# 463

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

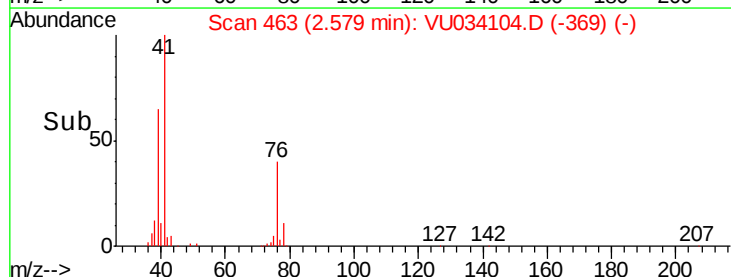
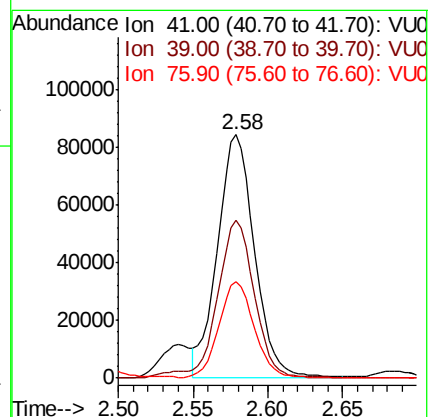
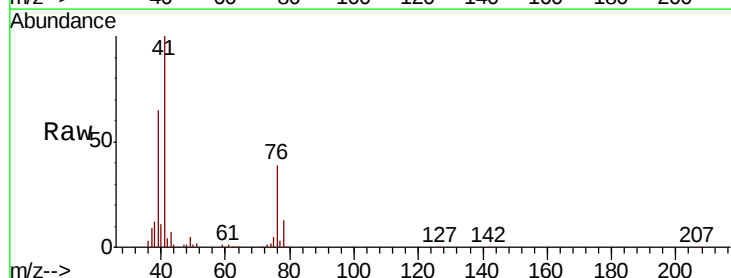
Tgt Ion: 41 Resp: 144922

Ion Ratio Lower Upper

41 100

39 65.6 46.8 70.2

76 37.5 26.6 40.0





#15

Acrylonitrile

Concen: 96.612 ug/l

RT: 2.92 min Scan# 568

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

VU0831MBSD01

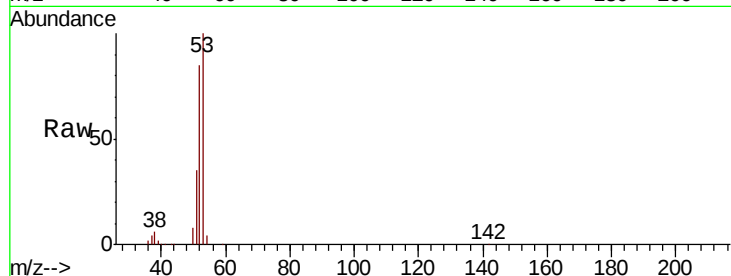
Tgt Ion: 53 Resp: 295942

Ion Ratio Lower Upper

53 100

52 82.3 65.7 98.5

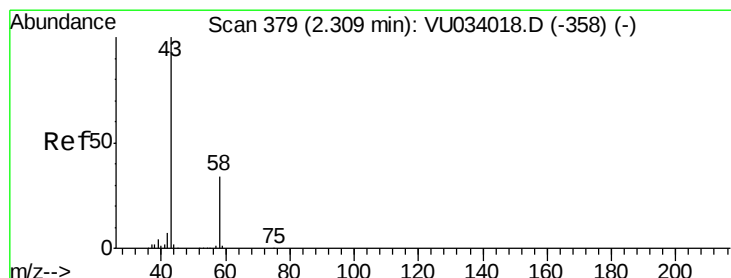
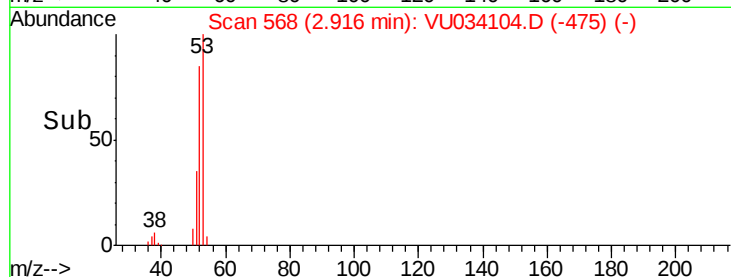
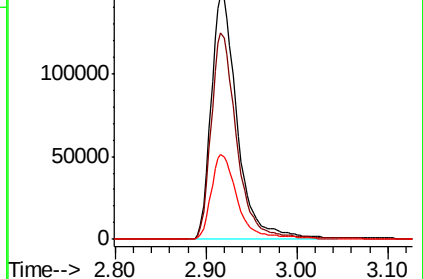
51 35.0 27.9 41.9



Abundance Ion 53.00 (52.70 to 53.70): VU034104.D (-555) (-)

Ion 52.00 (51.70 to 52.70): VU034104.D (-555) (-)

Ion 51.00 (50.70 to 51.70): VU034104.D (-555) (-)



#16

Acetone

Concen: 84.233 ug/l

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VU034104.D

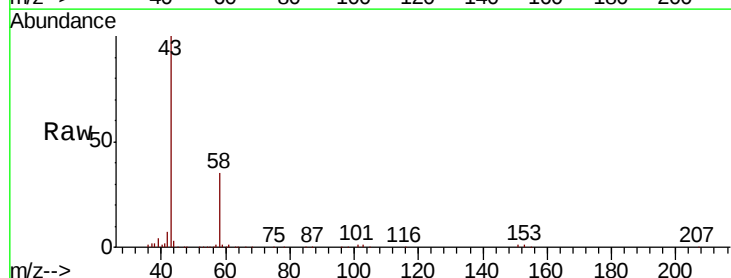
Acq: 30 Aug 2019 17:27

Tgt Ion: 43 Resp: 248796

Ion Ratio Lower Upper

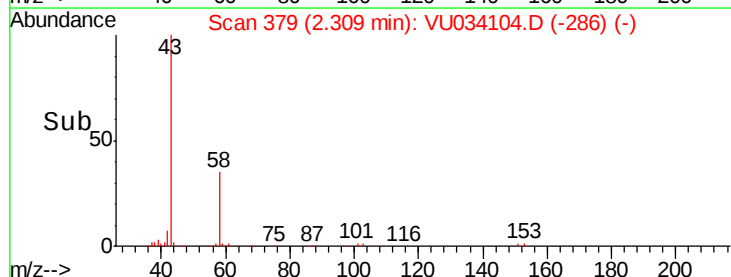
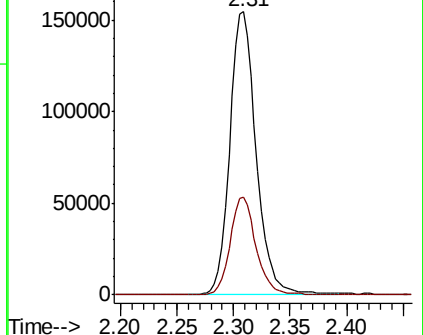
43 100

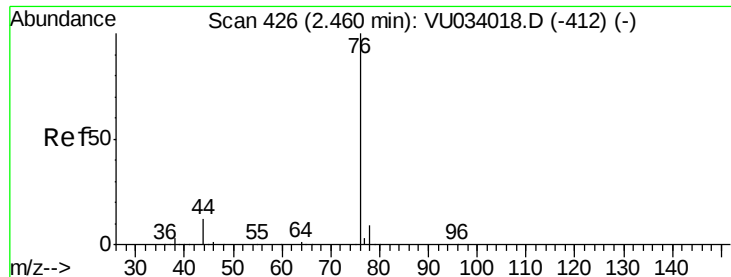
58 34.8 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034104.D (-286) (-)

Ion 58.00 (57.70 to 58.70): VU034104.D (-286) (-)

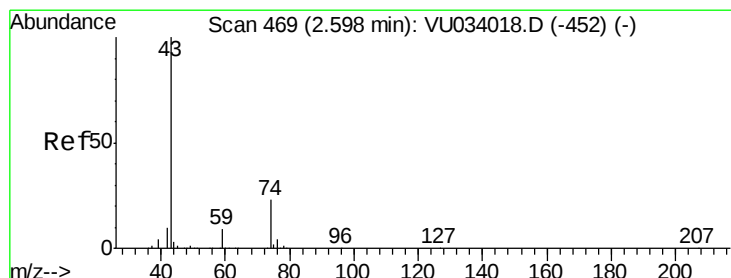
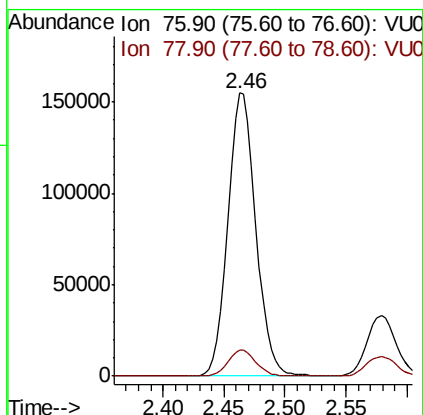
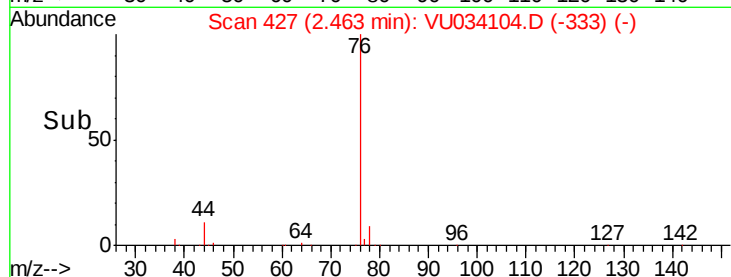
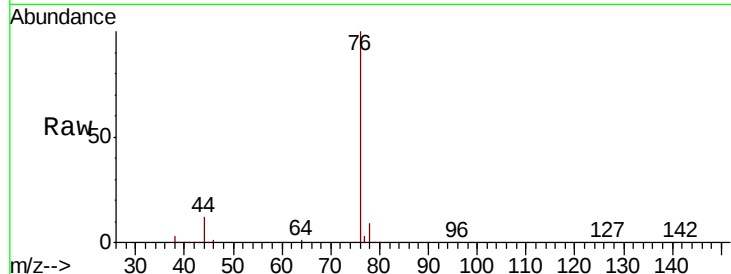




#17
Carbon Disulfide
Concen: 17.355 ug/l
RT: 2.46 min Scan# 427
Delta R.T. 0.00 min
Lab File: VU034104.D
Acq: 30 Aug 2019 17:27

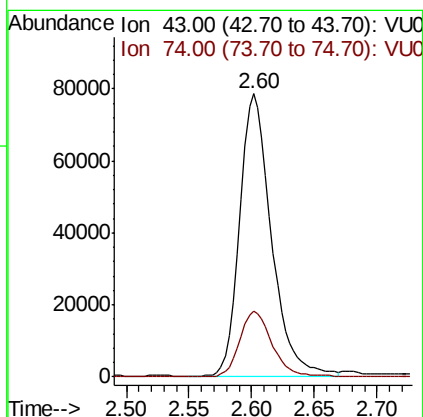
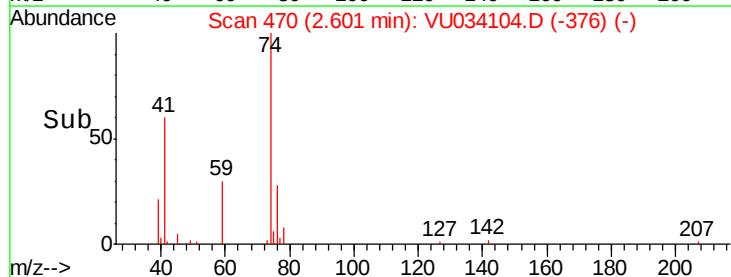
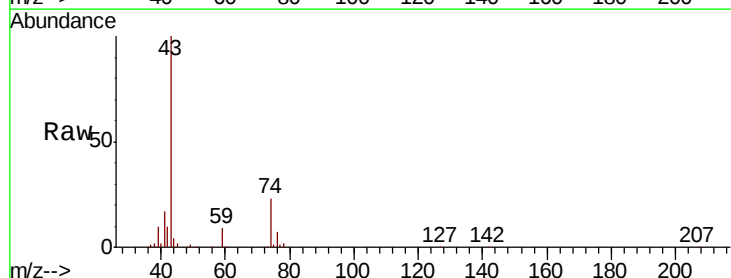
Instrument :
MSVOA_U
ClientSampleId :
VU0831MBSD01

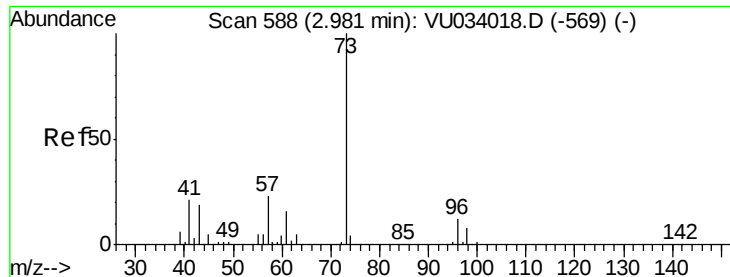
Tgt Ion: 76 Resp: 248417
Ion Ratio Lower Upper
76 100
78 9.1 7.1 10.7



#18
Methyl Acetate
Concen: 18.049 ug/l
RT: 2.60 min Scan# 470
Delta R.T. 0.00 min
Lab File: VU034104.D
Acq: 30 Aug 2019 17:27

Tgt Ion: 43 Resp: 137767
Ion Ratio Lower Upper
43 100
74 24.3 19.2 28.8





#19

Methyl tert-butyl Ether

Concen: 20.551 ug/l

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

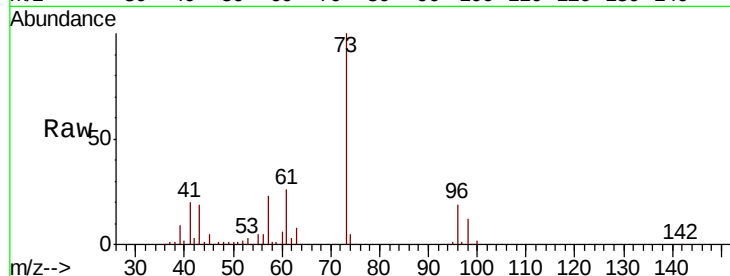
VU0831MBS01

Tgt Ion: 73 Resp: 304533

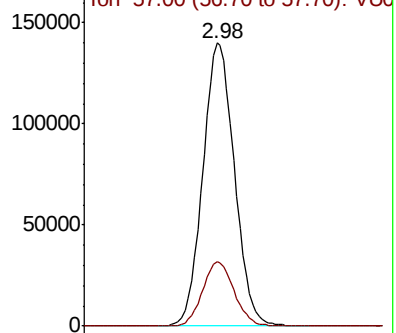
Ion Ratio Lower Upper

73 100

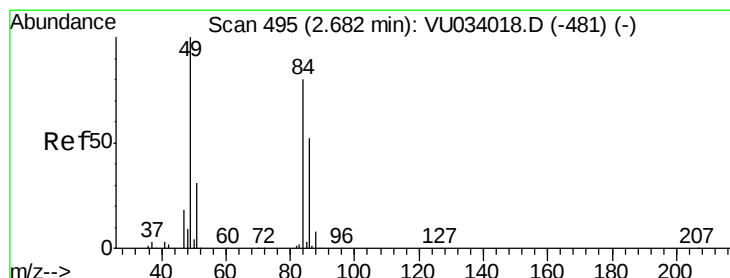
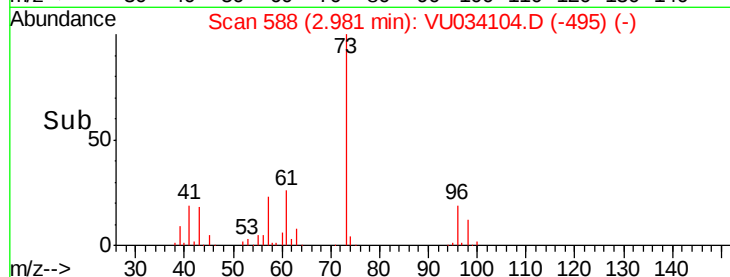
57 22.9 18.3 27.5



Abundance Ion 73.00 (72.70 to 73.70): VU034104.D (-495) (-)



Time-->



#20

Methylene Chloride

Concen: 18.814 ug/l

RT: 2.68 min Scan# 496

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

Tgt Ion: 84 Resp: 105200

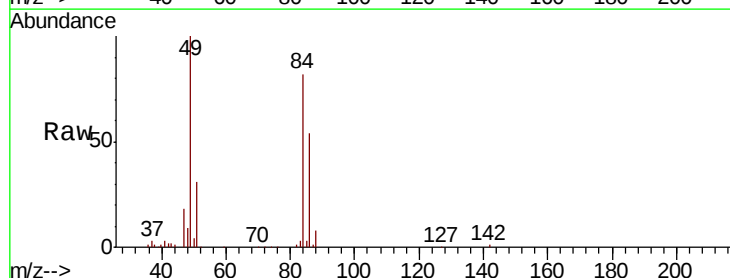
Ion Ratio Lower Upper

84 100

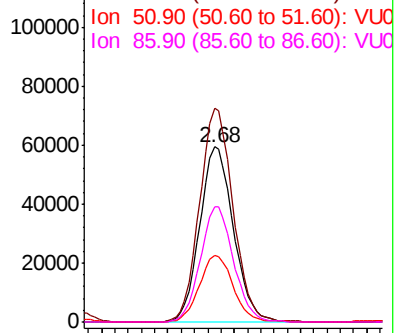
49 121.9 100.2 150.4

51 38.2 30.8 46.2

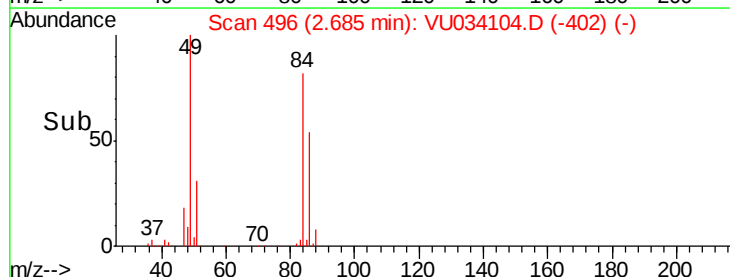
86 65.6 52.5 78.7

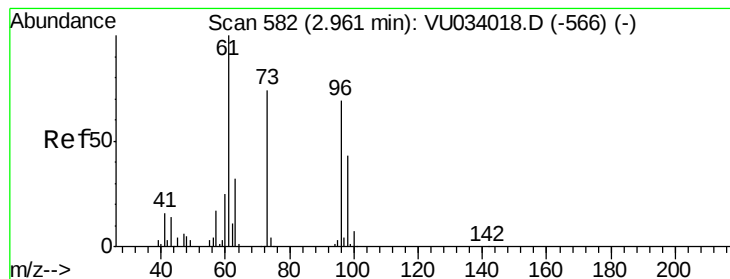


Abundance Ion 83.90 (83.60 to 84.60): VU034104.D (-402) (-)



Time-->





#21

trans-1,2-Dichloroethene

Concen: 19.477 ug/l

RT: 2.97 min Scan# 584

Delta R.T. 0.01 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

VU0831MBSD01

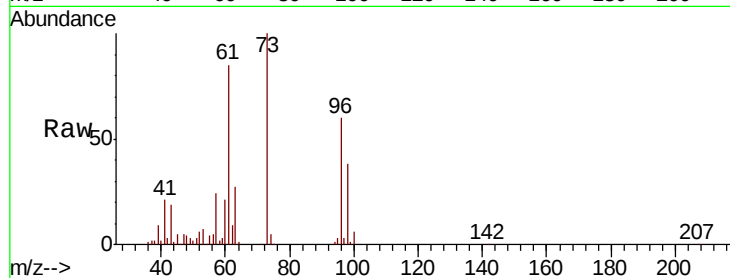
Tgt Ion: 96 Resp: 95599

Ion Ratio Lower Upper

96 100

61 142.1 115.5 173.3

98 63.2 50.1 75.1

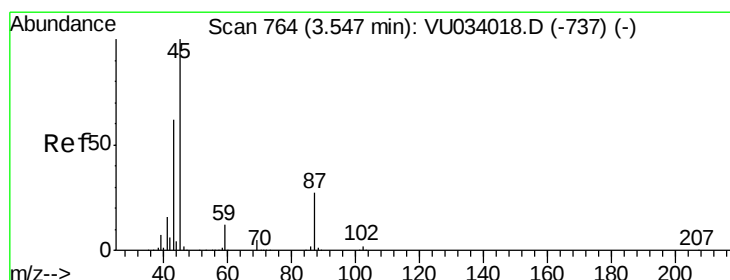
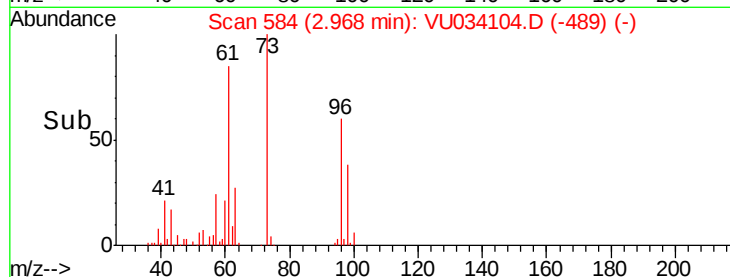
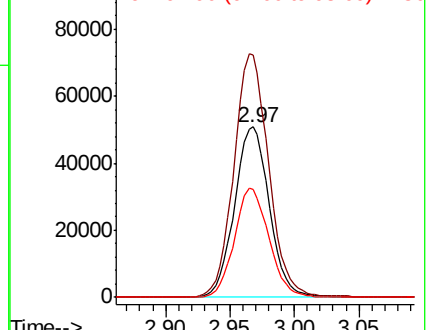


Abundance

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: 20.404 ug/l

RT: 3.55 min Scan# 765

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

Tgt Ion: 45 Resp: 317934

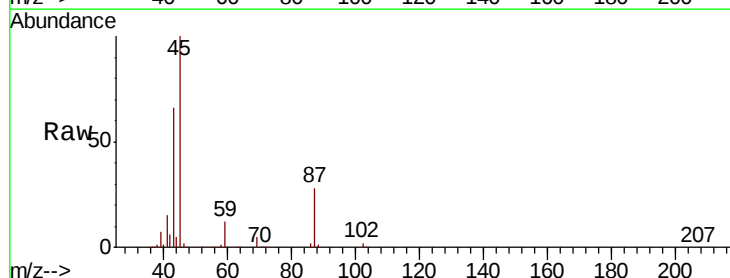
Ion Ratio Lower Upper

45 100

43 65.8 49.7 74.5

87 27.8 21.8 32.8

59 11.8 9.3 13.9



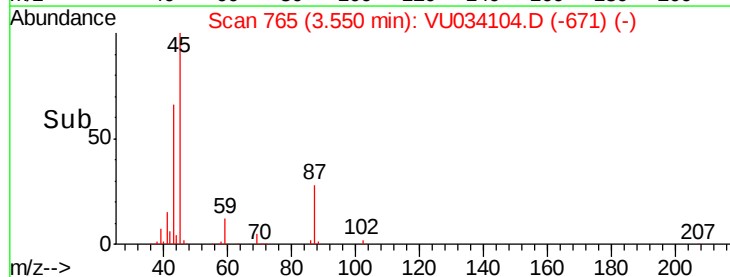
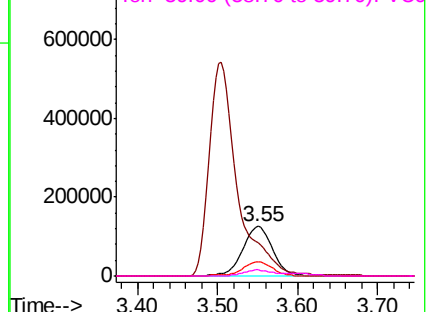
Abundance

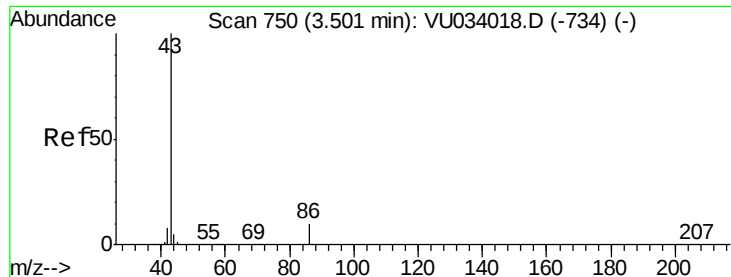
Ion 45.00 (44.70 to 45.70): VU0

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: 99.724 ug/l

RT: 3.50 min Scan# 751

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

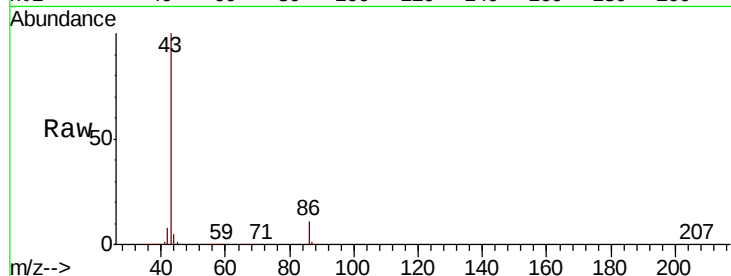
VU0831MBS01

Tgt Ion: 43 Resp: 1334824

Ion Ratio Lower Upper

43 100

86 10.5 8.3 12.5



Abundance Ion 43.00 (42.70 to 43.70): VU034104.D (-657) (-)

Ion 86.00 (85.70 to 86.70): VU034104.D (-657) (-)

3.50

600000

500000

400000

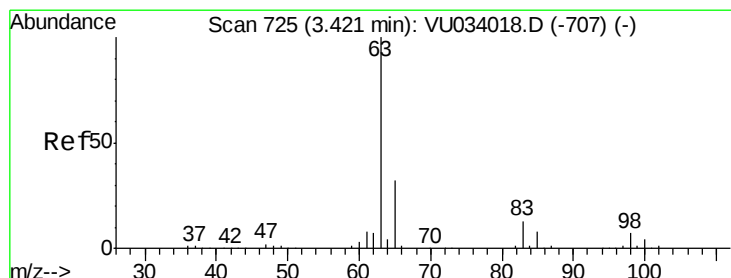
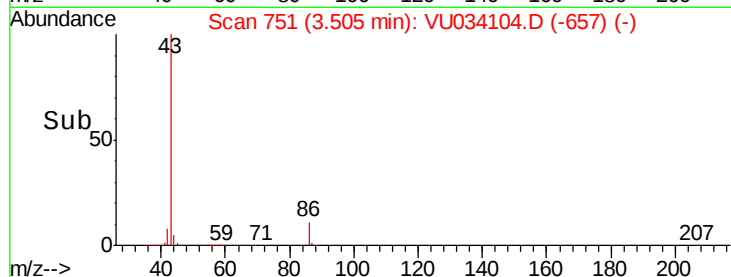
300000

200000

100000

0

Time-->



#24

1,1-Dichloroethane

Concen: 19.724 ug/l

RT: 3.43 min Scan# 727

Delta R.T. 0.01 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

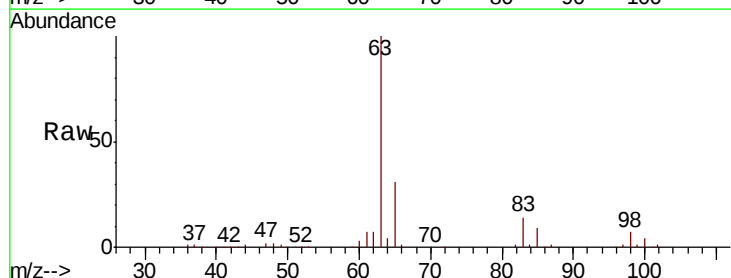
Tgt Ion: 63 Resp: 181449

Ion Ratio Lower Upper

63 100

98 7.0 3.3 9.8

100 3.8 2.0 6.0



Abundance Ion 62.90 (62.60 to 63.60): VU034104.D (-632) (-)

Ion 97.90 (97.60 to 98.60): VU034104.D (-632) (-)

Ion 99.90 (99.60 to 100.60): VU034104.D (-632) (-)

3.43

100000

80000

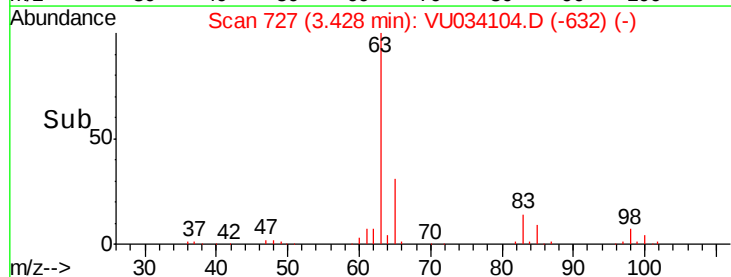
60000

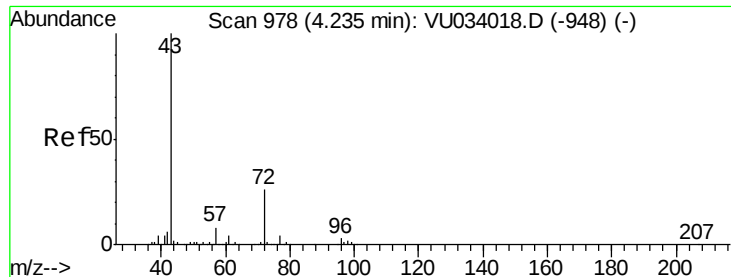
40000

20000

0

Time-->

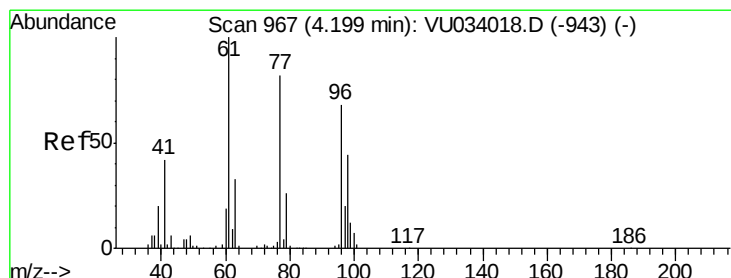
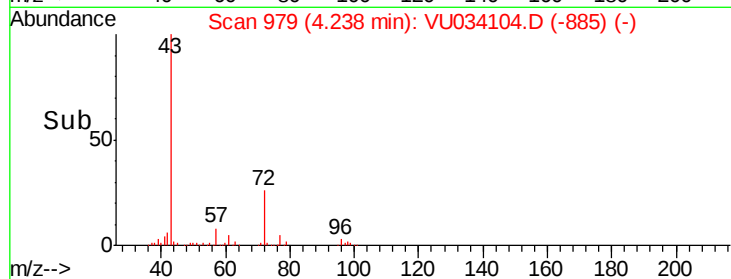
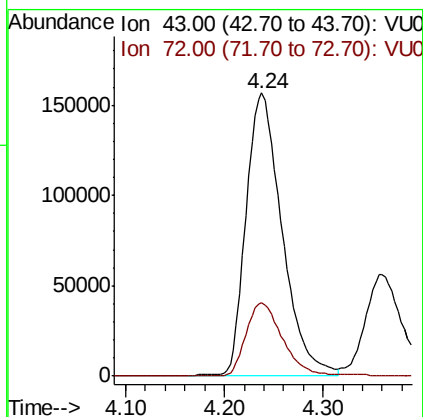
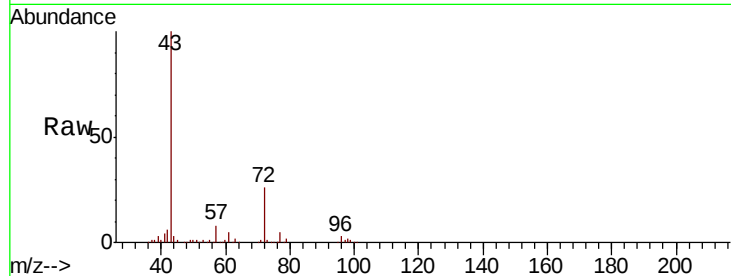




#25
 2-Butanone
 Concen: 95.537 ug/l
 RT: 4.24 min Scan# 979
 Delta R.T. 0.00 min
 Lab File: VU034104.D
 Acq: 30 Aug 2019 17:27

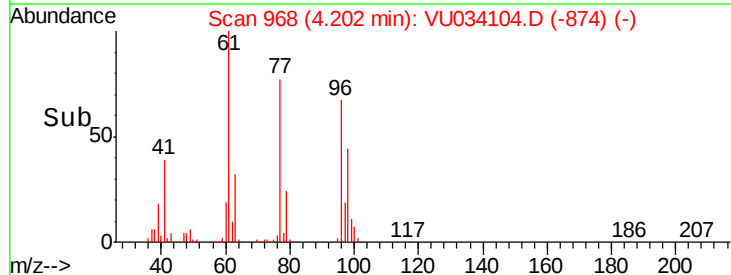
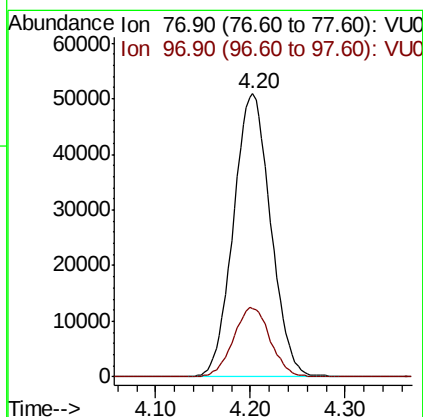
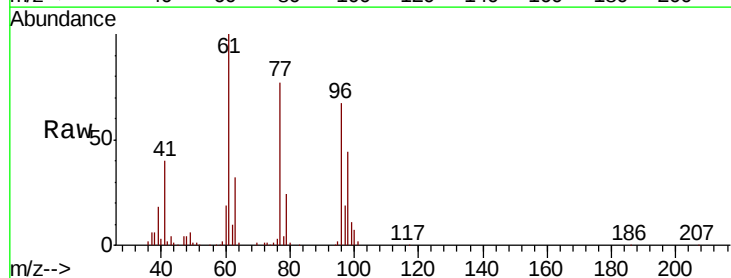
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0831MBS01

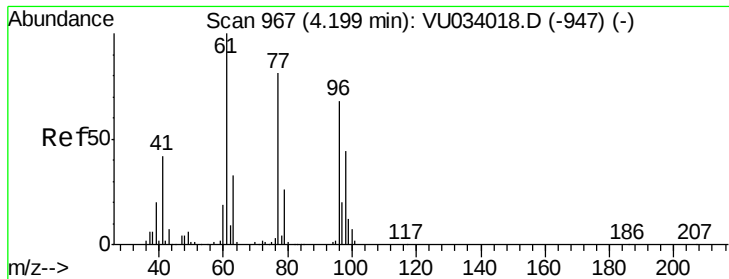
Tgt Ion: 43 Resp: 392592
 Ion Ratio Lower Upper
 43 100
 72 25.9 21.2 31.8



#26
 2,2-Dichloropropane
 Concen: 18.584 ug/l
 RT: 4.20 min Scan# 968
 Delta R.T. 0.00 min
 Lab File: VU034104.D
 Acq: 30 Aug 2019 17:27

Tgt Ion: 77 Resp: 139112
 Ion Ratio Lower Upper
 77 100
 97 24.2 11.6 34.7



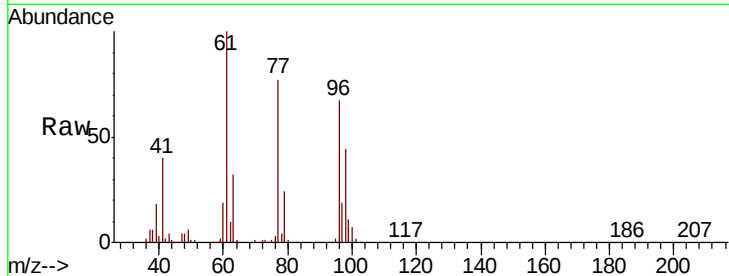


#27

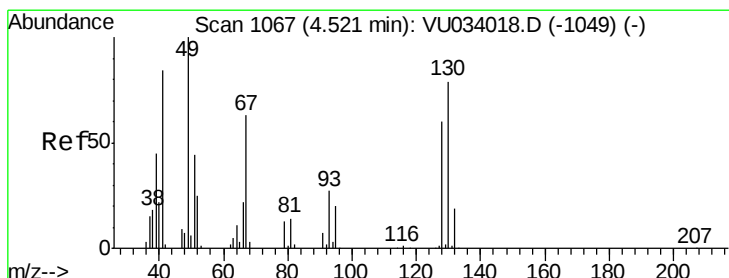
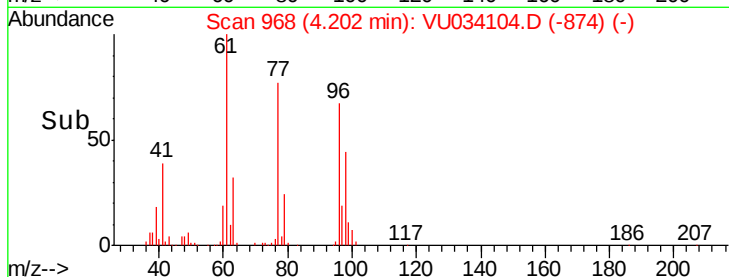
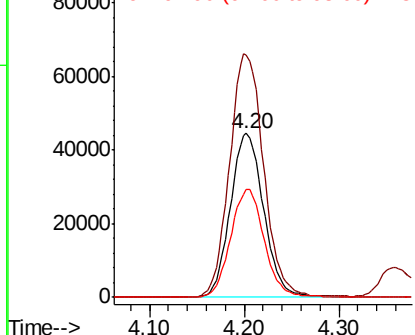
cis-1,2-Dichloroethene
 Concen: 19.840 ug/l
 RT: 4.20 min Scan# 968
 Delta R.T. 0.00 min
 Lab File: VU034104.D
 Acq: 30 Aug 2019 17:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0831MBSD01

Tgt Ion	Ratio	Lower	Upper
96	100		
61	151.3	0.0	303.0
98	66.2	0.0	129.2



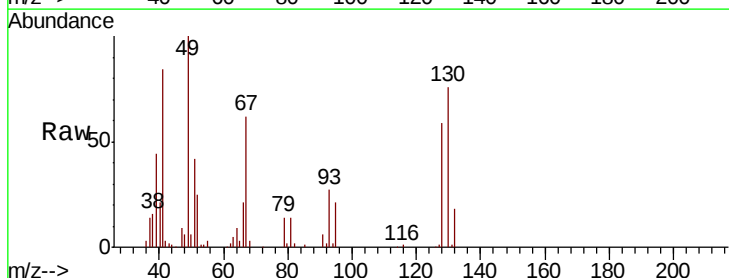
Abundance Ion 95.90 (95.60 to 96.60): VU0
 Ion 60.90 (60.60 to 61.60): VU0
 Ion 97.90 (97.60 to 98.60): VU0



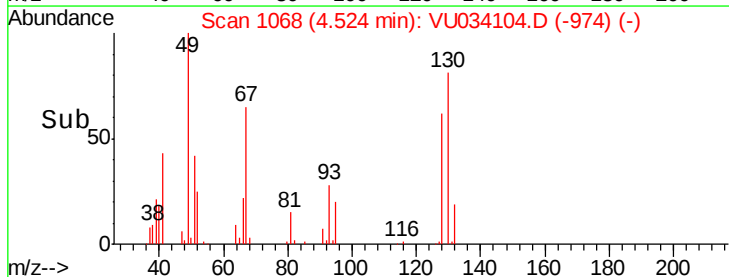
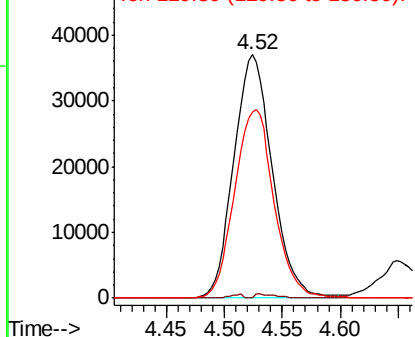
#28

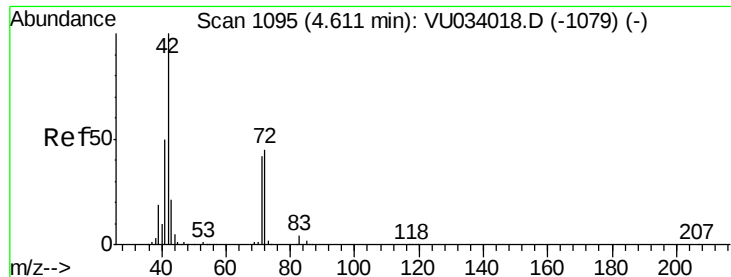
Bromochloromethane
 Concen: 18.900 ug/l
 RT: 4.52 min Scan# 1068
 Delta R.T. 0.00 min
 Lab File: VU034104.D
 Acq: 30 Aug 2019 17:27

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.8	0.0	3.6
130	79.3	62.8	94.2



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: 99.547 ug/l

RT: 4.61 min Scan# 1096

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

VU0831MBSD01

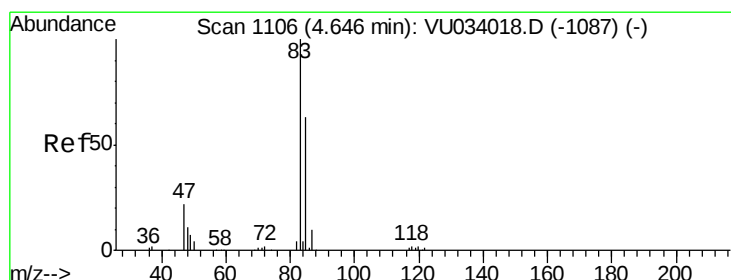
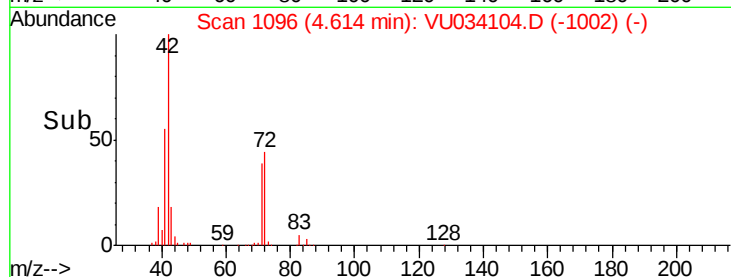
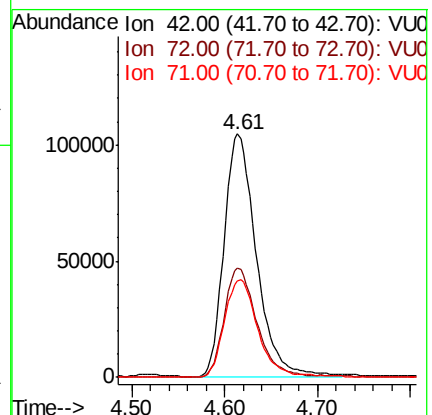
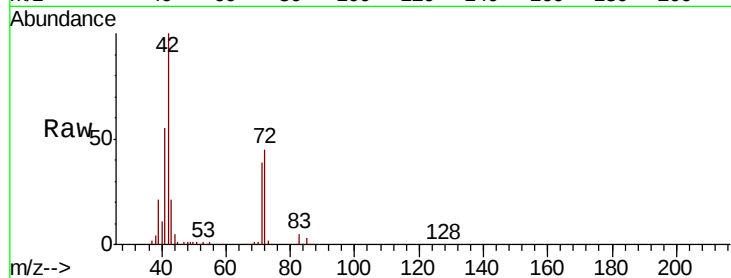
Tgt Ion: 42 Resp: 252273

Ion Ratio Lower Upper

42 100

72 45.4 35.8 53.6

71 41.6 34.0 51.0



#30

Chloroform

Concen: 19.328 ug/l

RT: 4.65 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VU034104.D

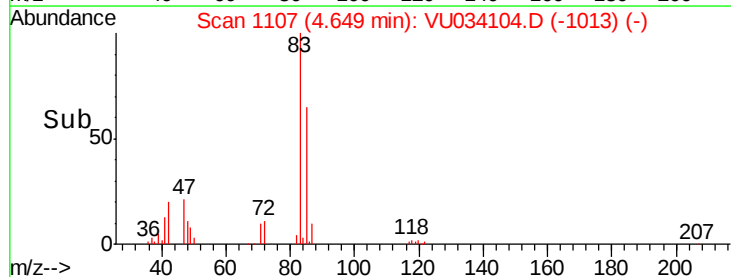
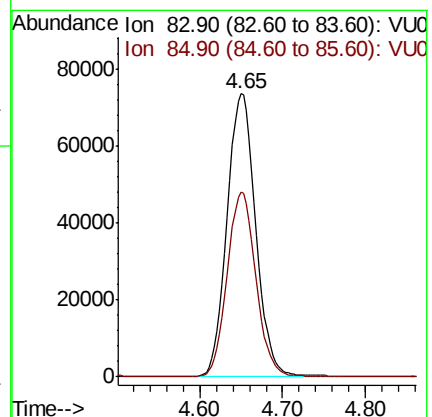
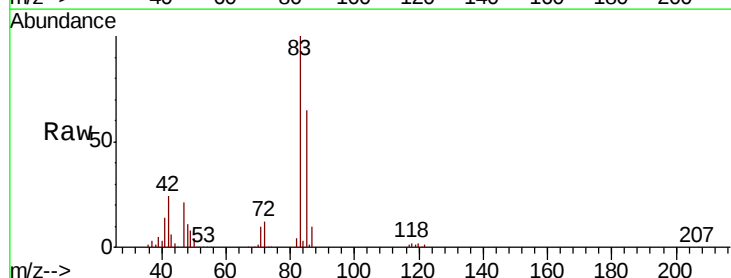
Acq: 30 Aug 2019 17:27

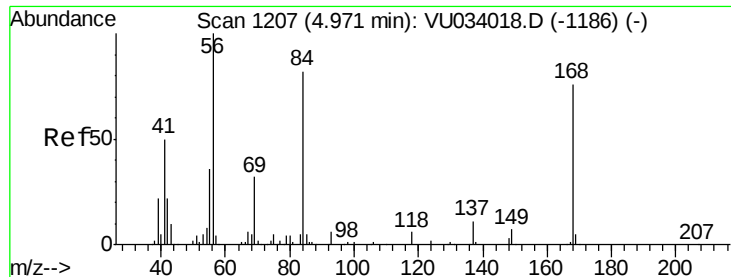
Tgt Ion: 83 Resp: 177397

Ion Ratio Lower Upper

83 100

85 65.3 50.7 76.1

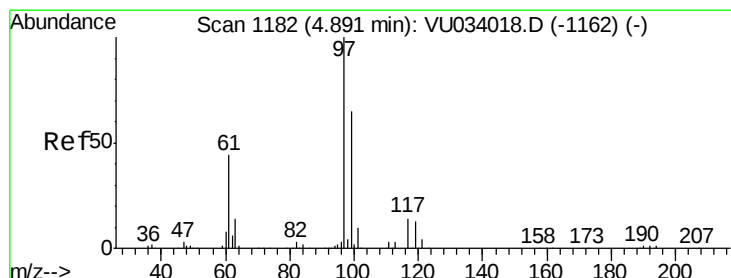
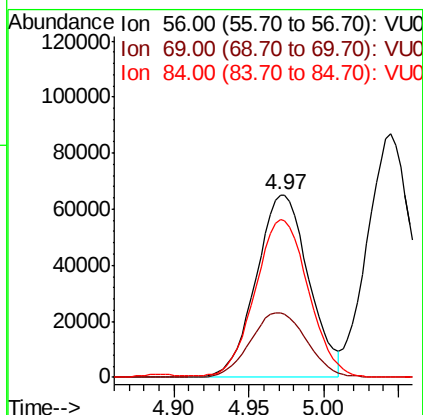
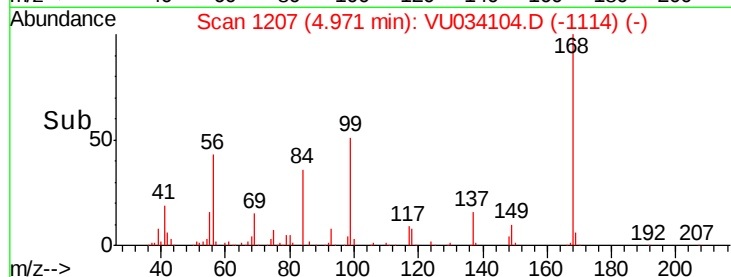
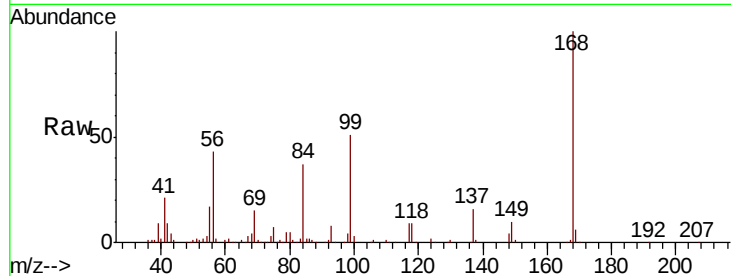




#31
Cyclohexane
Concen: 18.370 ug/l
RT: 4.97 min Scan# 1207
Delta R.T. 0.00 min
Lab File: VU034104.D
Acq: 30 Aug 2019 17:27

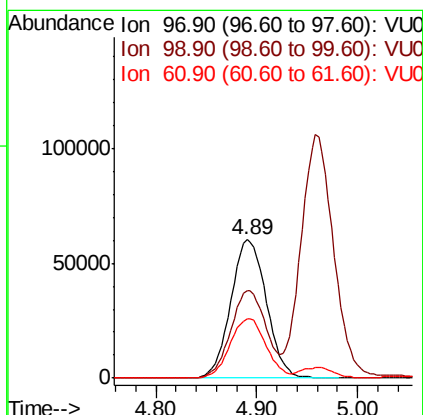
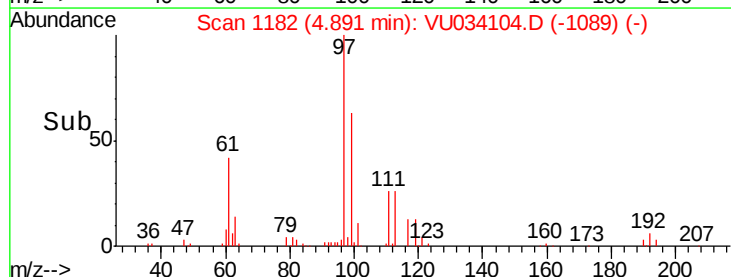
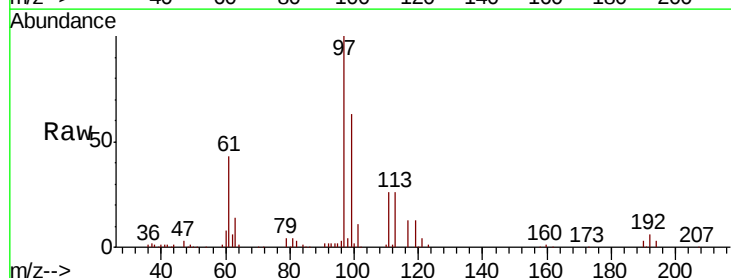
Instrument :
MSVOA_U
ClientSampleId :
VU0831MBS01

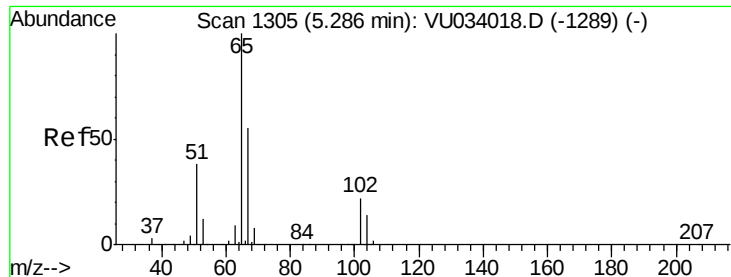
Tgt Ion: 56 Resp: 158793
Ion Ratio Lower Upper
56 100
69 35.4 25.4 38.0
84 85.8 65.8 98.8



#32
1,1,1-Trichloroethane
Concen: 19.692 ug/l
RT: 4.89 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU034104.D
Acq: 30 Aug 2019 17:27

Tgt Ion: 97 Resp: 148025
Ion Ratio Lower Upper
97 100
99 62.6 51.8 77.6
61 43.3 35.3 52.9





#33

1,2-Dichloroethane-d4

Concen: 48.661 ug/l

RT: 5.29 min Scan# 1305

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

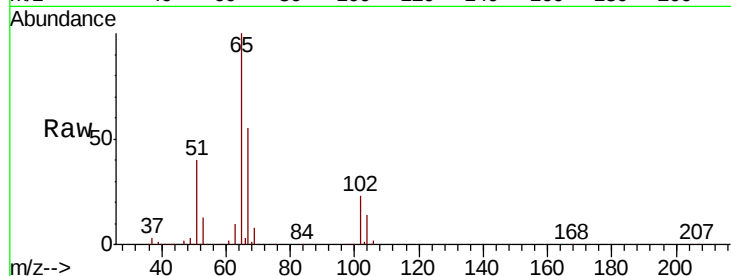
VU0831MBS01

Tgt Ion: 65 Resp: 281683

Ion Ratio Lower Upper

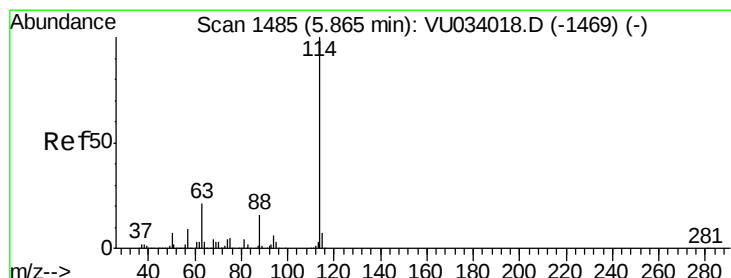
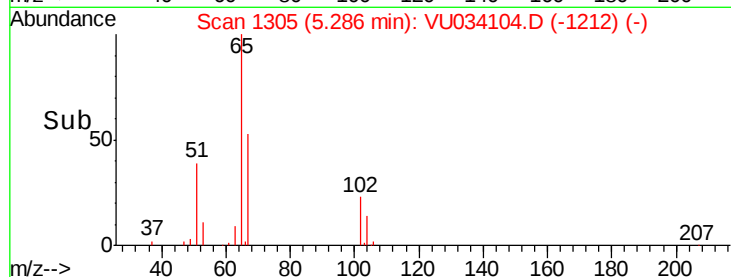
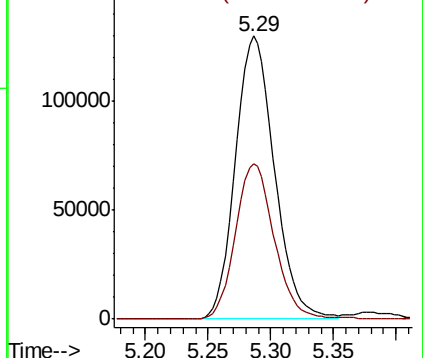
65 100

67 54.4 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU034104.D (-1212) (-)

Ion 66.90 (66.60 to 67.60): VU034104.D (-1212) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.86 min Scan# 1485

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

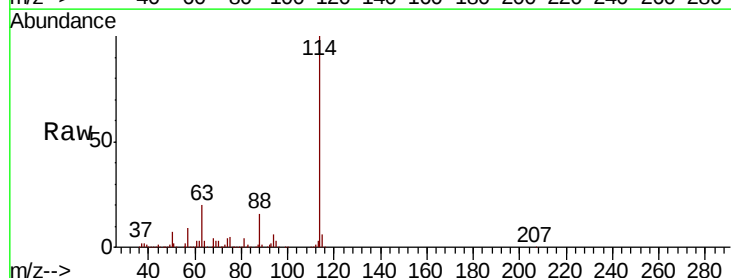
Tgt Ion: 114 Resp: 730292

Ion Ratio Lower Upper

114 100

63 20.3 0.0 42.0

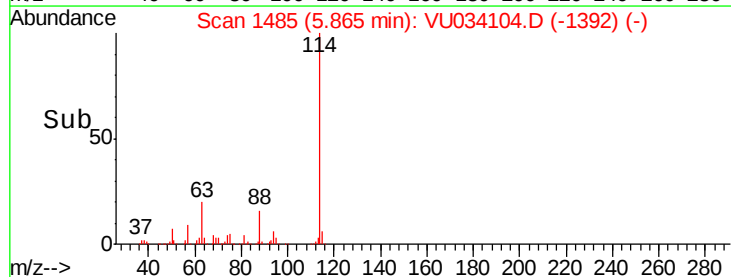
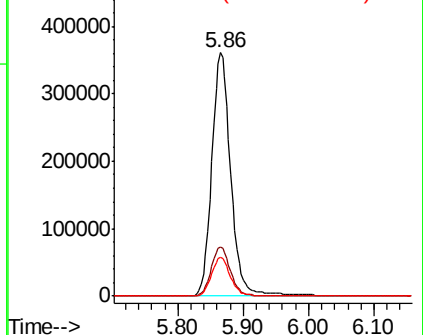
88 15.9 0.0 32.0

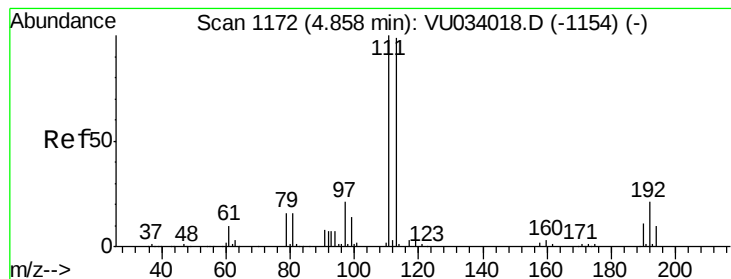


Abundance Ion 113.90 (113.60 to 114.60): VU034104.D (-1392) (-)

Ion 63.00 (62.70 to 63.70): VU034104.D (-1392) (-)

Ion 87.90 (87.60 to 88.60): VU034104.D (-1392) (-)





#35

Dibromofluoromethane

Concen: 46.920 ug/l

RT: 4.86 min Scan# 1172

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

VU0831MBSD01

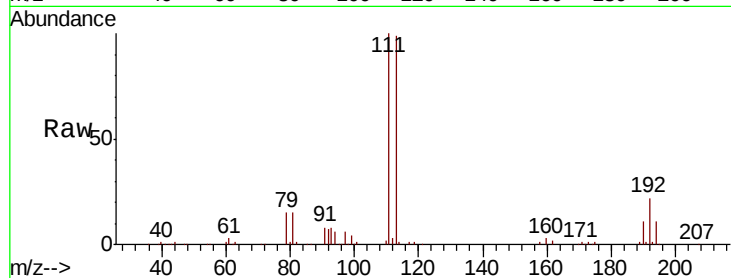
Tgt Ion:113 Resp: 237660

Ion Ratio Lower Upper

113 100

111 102.2 81.7 122.5

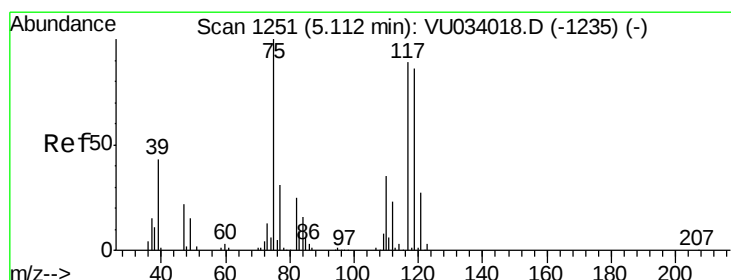
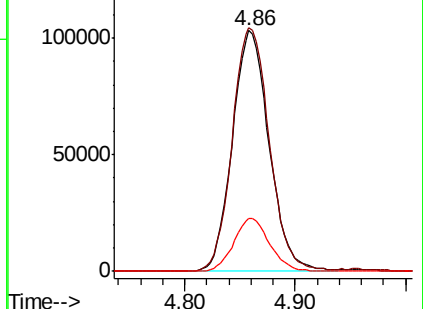
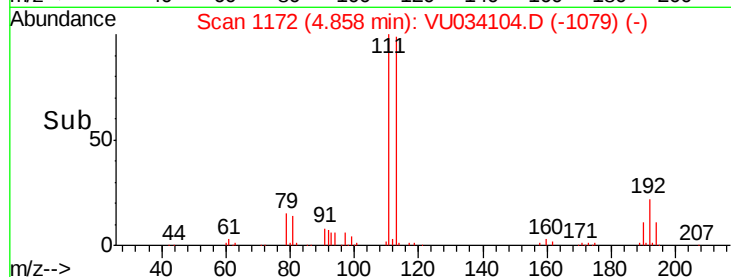
192 21.6 17.1 25.7



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: 18.783 ug/l

RT: 5.12 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

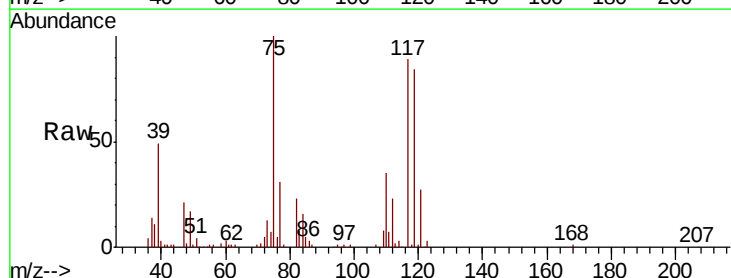
Tgt Ion: 75 Resp: 129745

Ion Ratio Lower Upper

75 100

110 36.3 17.8 53.5

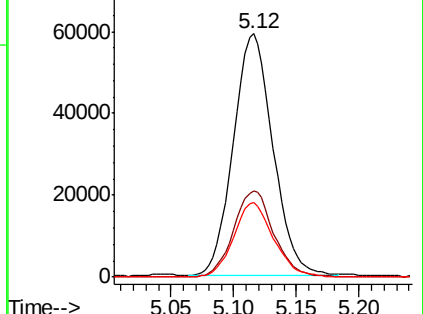
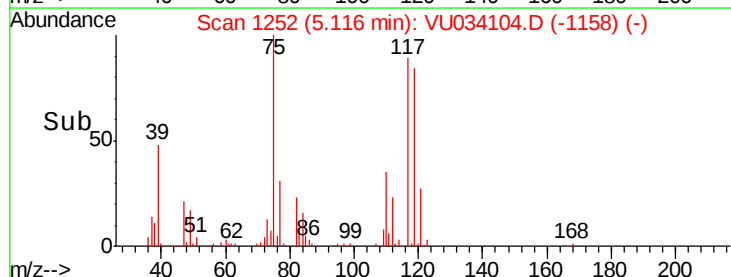
77 30.4 25.0 37.4

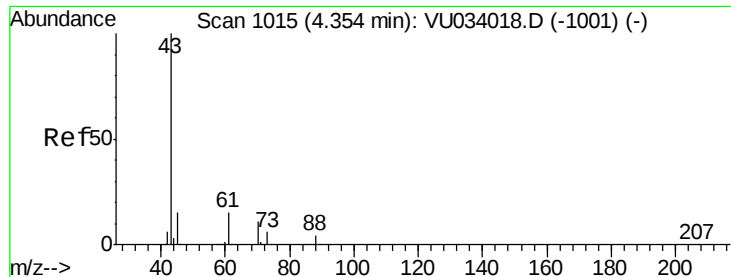


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0

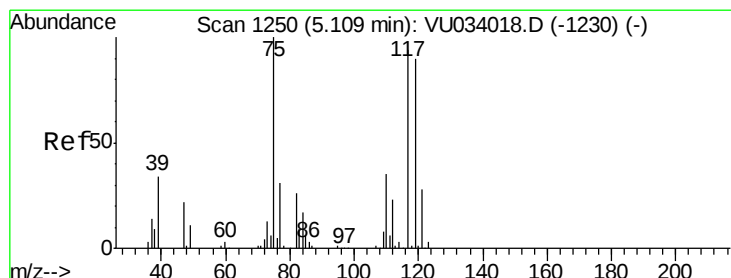
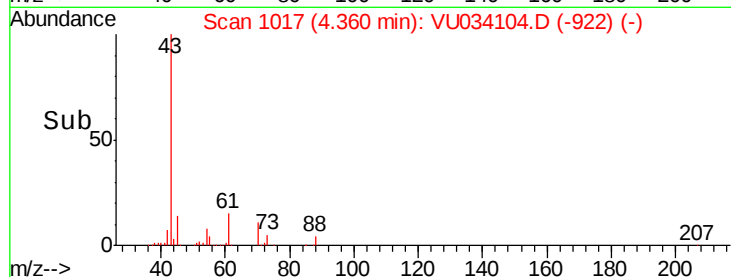
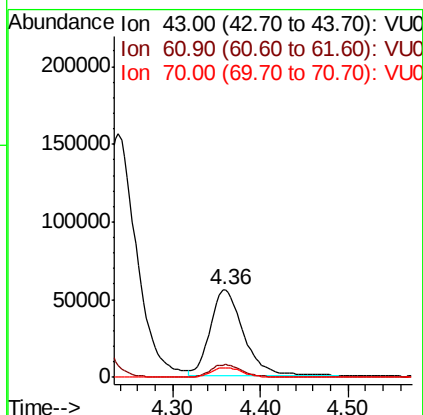
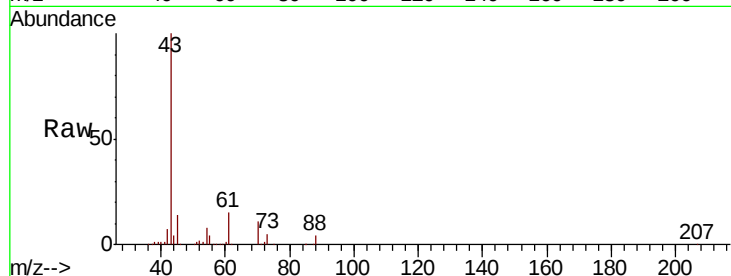




#37
 Ethyl Acetate
 Concen: 18.891 ug/l
 RT: 4.36 min Scan# 1017
 Delta R.T. 0.01 min
 Lab File: VU034104.D
 Acq: 30 Aug 2019 17:27

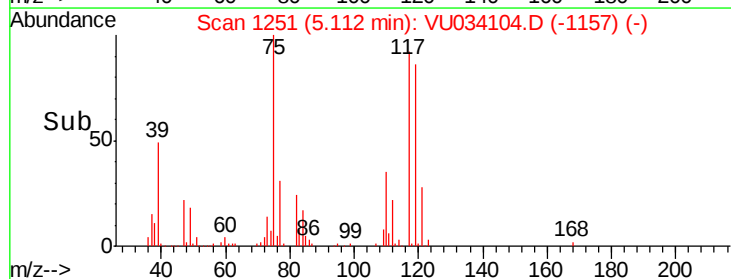
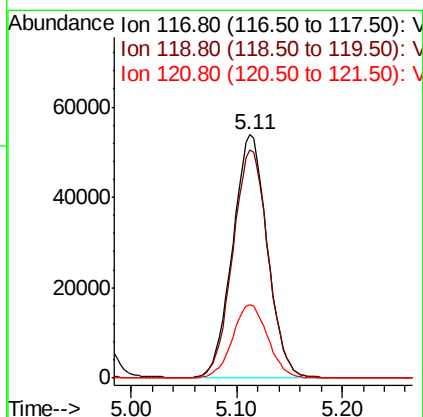
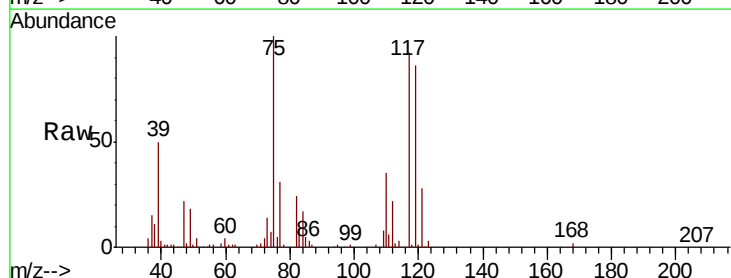
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0831MBS01

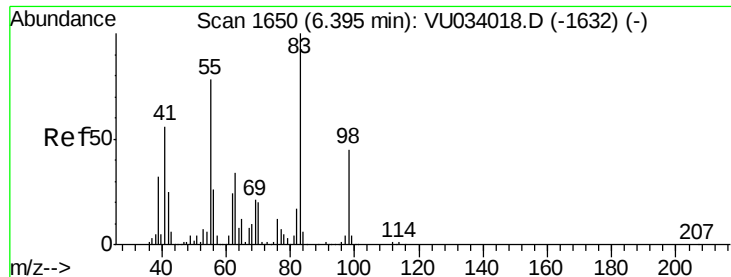
Tgt Ion: 43 Resp: 146129
 Ion Ratio Lower Upper
 43 100
 61 13.2 11.5 17.3
 70 11.0 8.6 12.8



#38
 Carbon Tetrachloride
 Concen: 18.283 ug/l
 RT: 5.11 min Scan# 1251
 Delta R.T. 0.00 min
 Lab File: VU034104.D
 Acq: 30 Aug 2019 17:27

Tgt Ion: 117 Resp: 121903
 Ion Ratio Lower Upper
 117 100
 119 94.2 77.0 115.4
 121 30.0 23.9 35.9

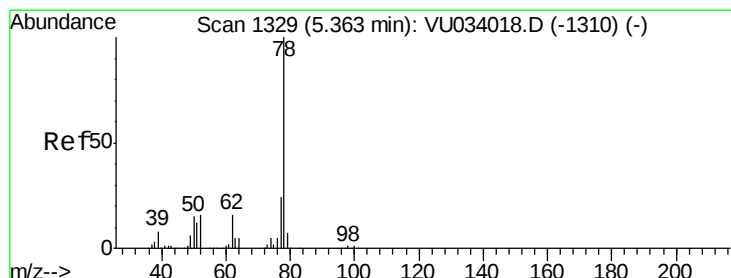
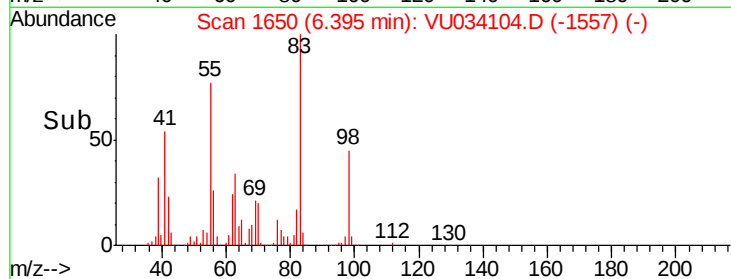
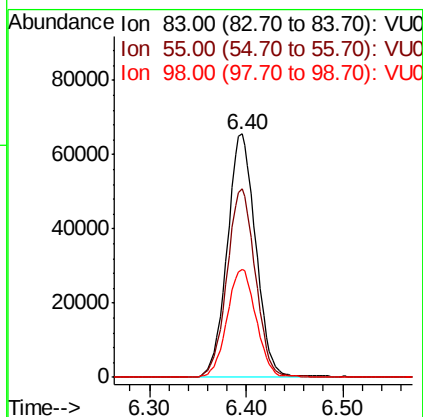
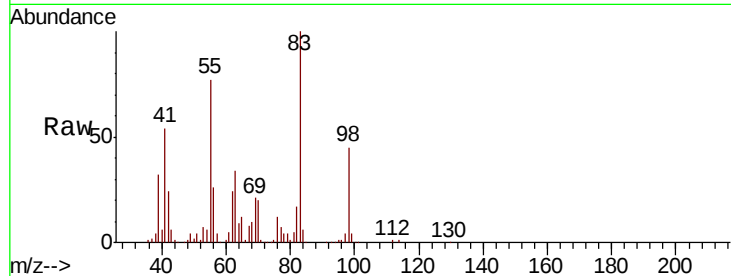




#39
Methylcyclohexane
Concen: 16.502 ug/l
RT: 6.40 min Scan# 1650
Delta R.T. 0.00 min
Lab File: VU034104.D
Acq: 30 Aug 2019 17:27

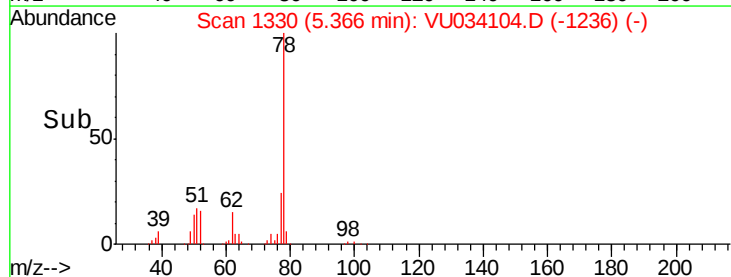
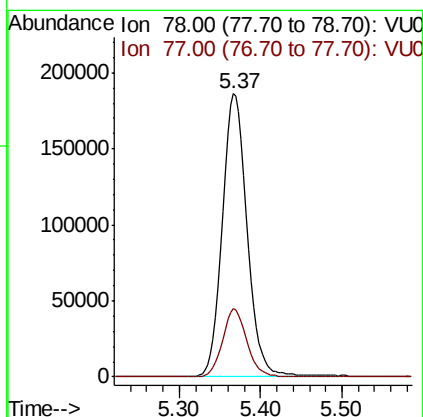
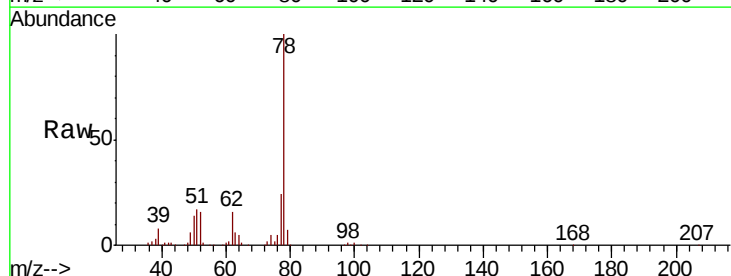
Instrument :
MSVOA_U
ClientSampleId :
VU0831MBSD01

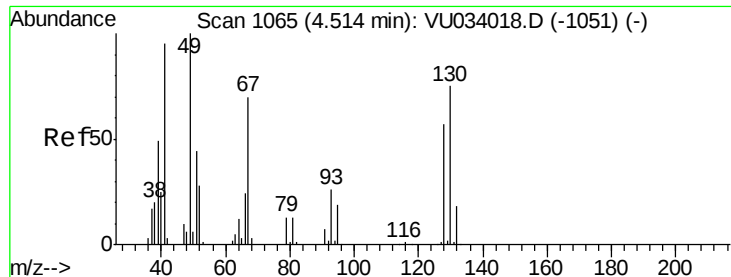
Tgt Ion: 83 Resp: 134355
Ion Ratio Lower Upper
83 100
55 77.3 62.3 93.5
98 44.6 36.2 54.2



#40
Benzene
Concen: 19.290 ug/l
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU034104.D
Acq: 30 Aug 2019 17:27

Tgt Ion: 78 Resp: 403140
Ion Ratio Lower Upper
78 100
77 23.9 19.0 28.6

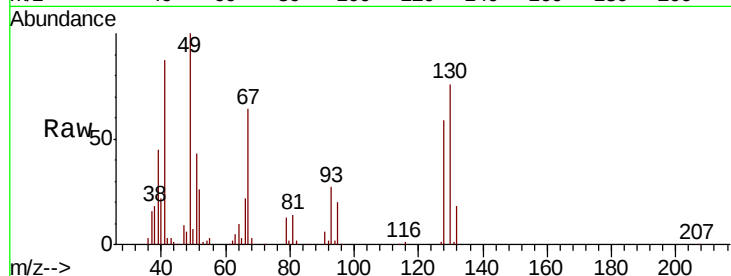




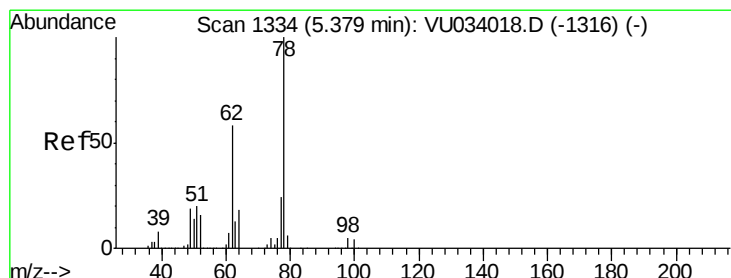
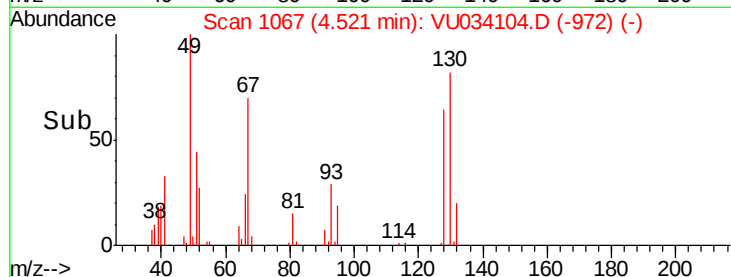
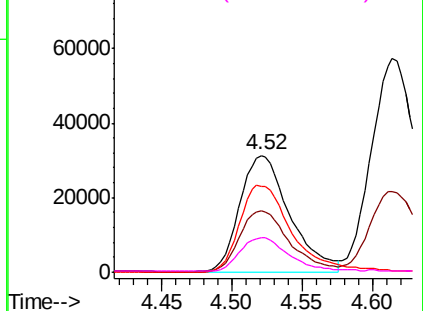
#41
Methacrylonitrile
Concen: 19.425 ug/l
RT: 4.52 min Scan# 1067
Delta R.T. 0.01 min
Lab File: VU034104.D
Acq: 30 Aug 2019 17:27

Instrument :
MSVOA_U
ClientSampleId :
VU0831MBSD01

Tgt Ion: 41 Resp: 77062
Ion Ratio Lower Upper
41 100
39 52.3 42.1 63.1
67 79.1 61.0 91.4
52 28.5 23.3 34.9

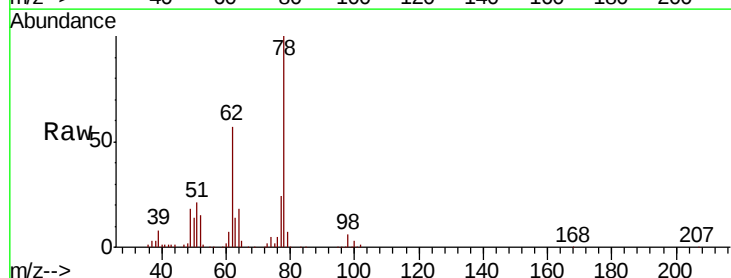


Abundance Ion 41.00 (40.70 to 41.70): VU0
Ion 39.00 (38.70 to 39.70): VU0
Ion 67.00 (66.70 to 67.70): VU0
Ion 52.00 (51.70 to 52.70): VU0

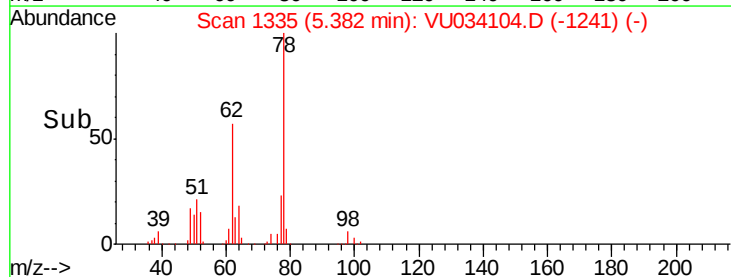
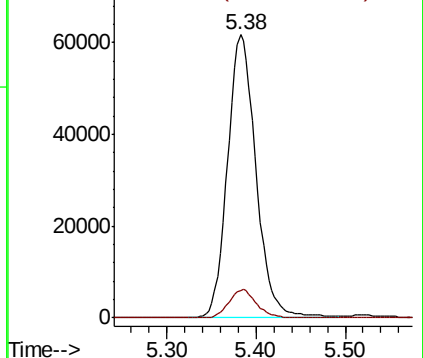


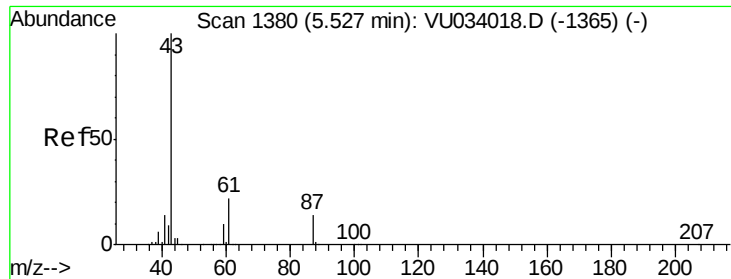
#42
1,2-Dichloroethane
Concen: 18.927 ug/l
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU034104.D
Acq: 30 Aug 2019 17:27

Tgt Ion: 62 Resp: 136593
Ion Ratio Lower Upper
62 100
98 9.7 0.0 18.2



Abundance Ion 61.90 (61.60 to 62.60): VU0
Ion 97.90 (97.60 to 98.60): VU0





#43

Isopropyl Acetate

Concen: 19.260 ug/l

RT: 5.53 min Scan# 1380

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

VU0831MBSD01

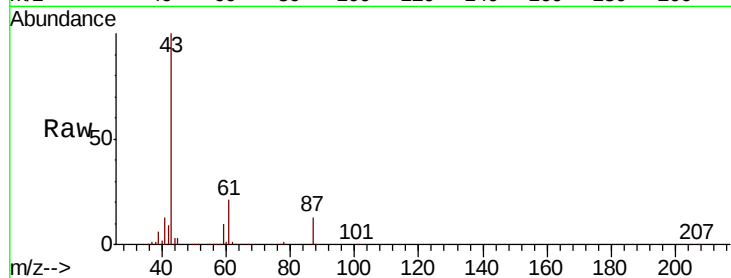
Tgt Ion: 43 Resp: 226658

Ion Ratio Lower Upper

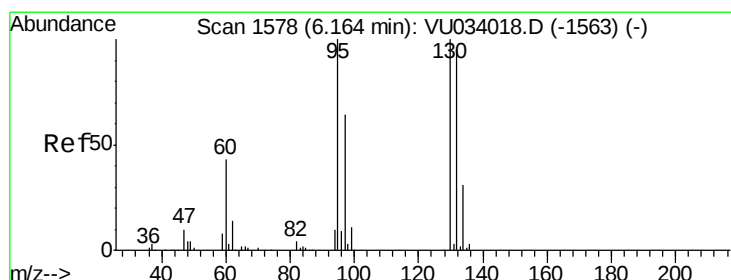
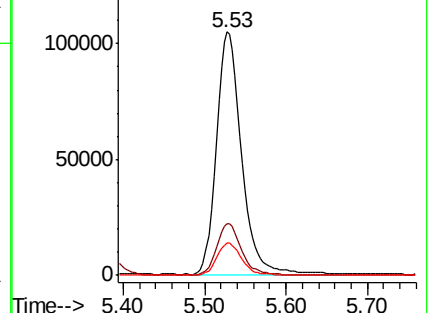
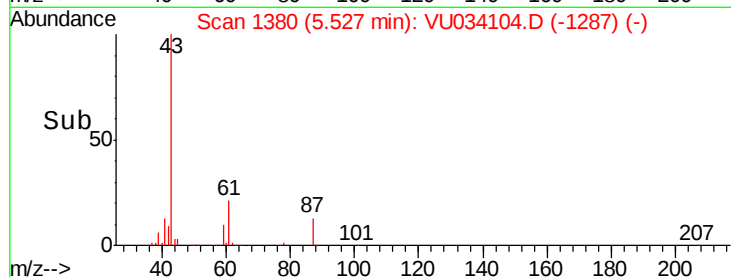
43 100

61 21.3 17.2 25.8

87 13.4 10.8 16.2



Abundance Ion 43.00 (42.70 to 43.70): VU034104.D (-1287) (-)



#44

Trichloroethene

Concen: 19.717 ug/l

RT: 6.17 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VU034104.D

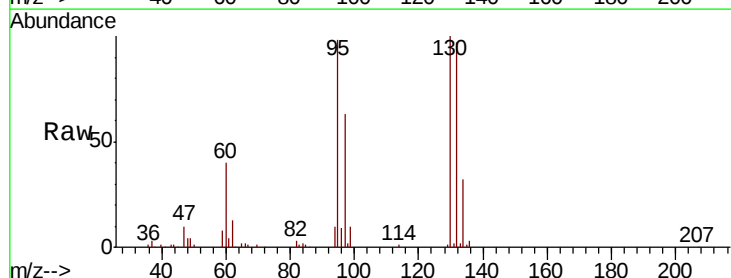
Acq: 30 Aug 2019 17:27

Tgt Ion: 130 Resp: 108210

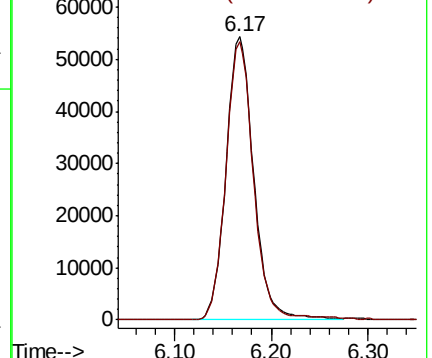
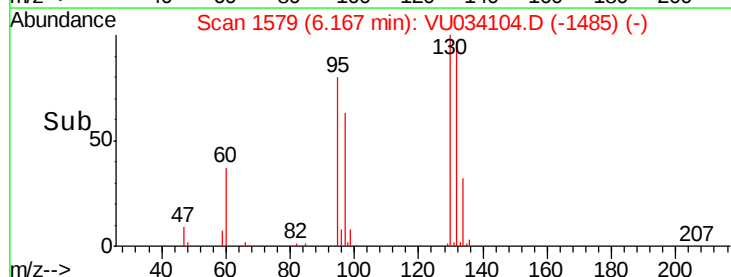
Ion Ratio Lower Upper

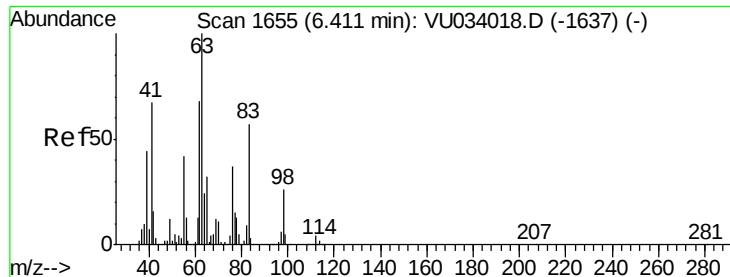
130 100

95 98.1 0.0 199.6



Abundance Ion 129.80 (129.50 to 130.50): VU034104.D (-1485) (-)





#45

1,2-Dichloropropane

Concen: 18.914 ug/l

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

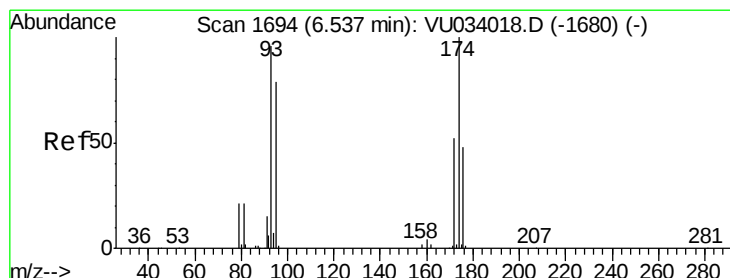
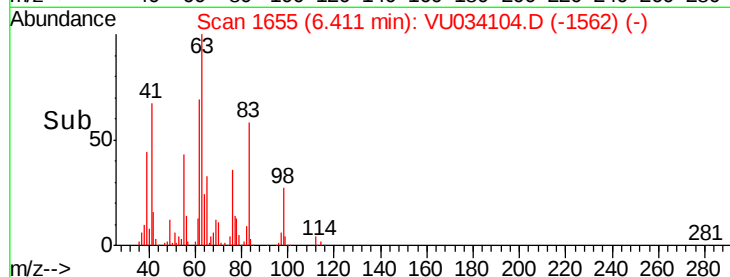
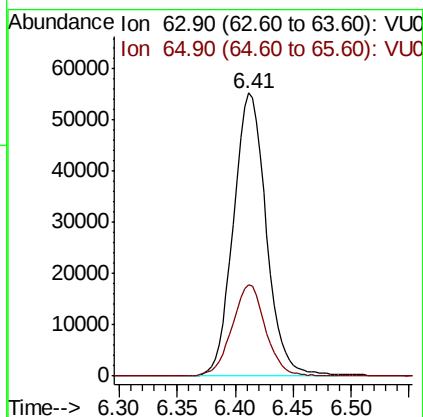
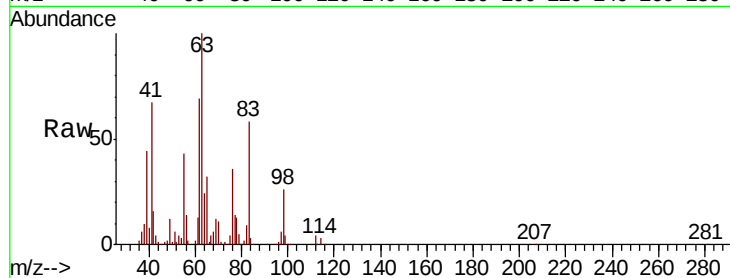
VU0831MBSD01

Tgt Ion: 63 Resp: 108813

Ion Ratio Lower Upper

63 100

65 32.5 25.4 38.2



#46

Dibromomethane

Concen: 19.036 ug/l

RT: 6.54 min Scan# 1695

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

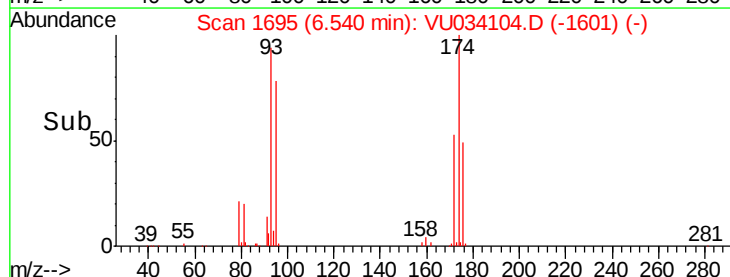
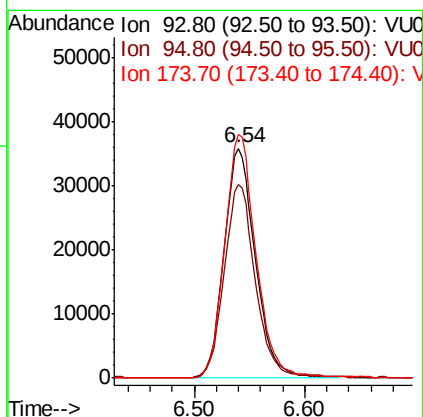
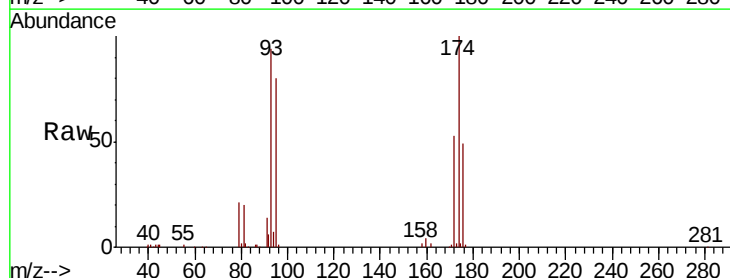
Tgt Ion: 93 Resp: 70558

Ion Ratio Lower Upper

93 100

95 84.0 66.7 100.1

174 106.1 84.9 127.3





#47

Bromodichloromethane

Concen: 18.669 ug/l

RT: 6.74 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

VU0831MBS01

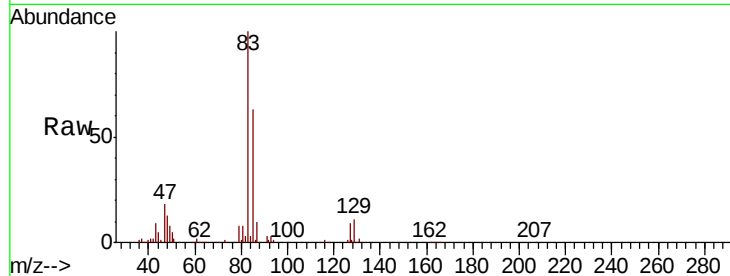
Tgt Ion: 83 Resp: 135380

Ion Ratio Lower Upper

83 100

85 63.4 51.2 76.8

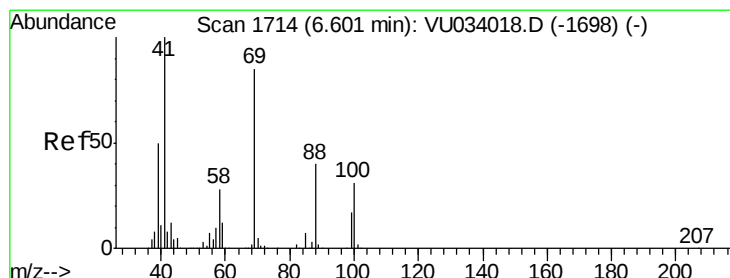
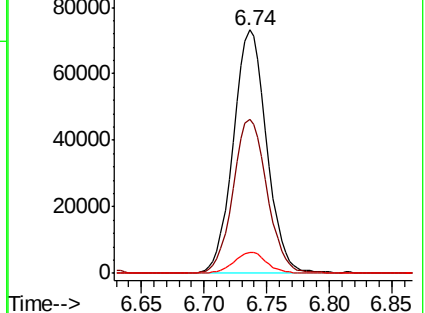
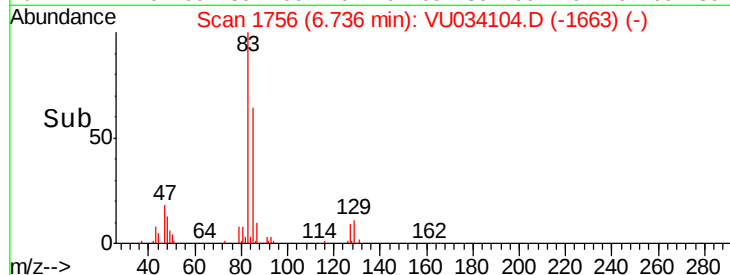
127 8.8 7.0 10.6



Abundance Ion 82.90 (82.60 to 83.60): VU034104.D (-1663) (-)

Ion 84.90 (84.60 to 85.60): VU034104.D (-1663) (-)

Ion 126.80 (126.50 to 127.50): VU034104.D (-1663) (-)



#48

Methyl methacrylate

Concen: 18.535 ug/l

RT: 6.60 min Scan# 1715

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

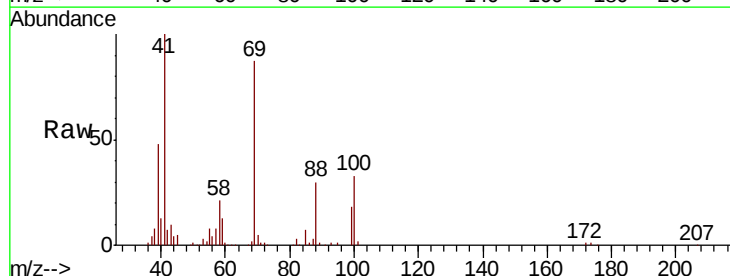
Tgt Ion: 41 Resp: 105254

Ion Ratio Lower Upper

41 100

69 90.1 69.5 104.3

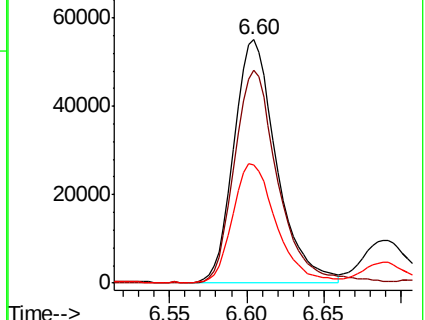
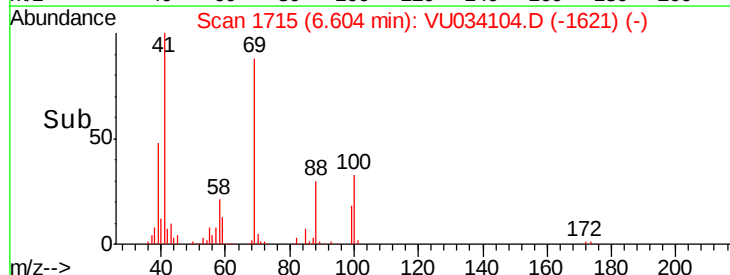
39 49.7 40.3 60.5



Abundance Ion 41.00 (40.70 to 41.70): VU034104.D (-1621) (-)

Ion 69.00 (68.70 to 69.70): VU034104.D (-1621) (-)

Ion 39.00 (38.70 to 39.70): VU034104.D (-1621) (-)

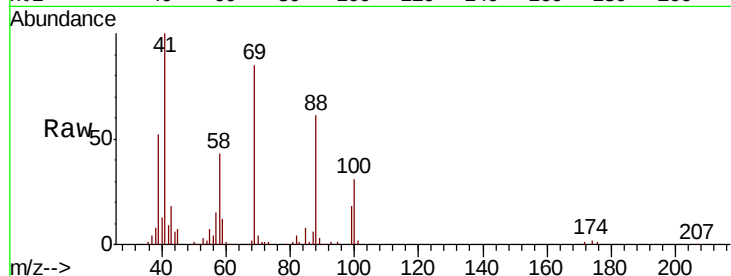




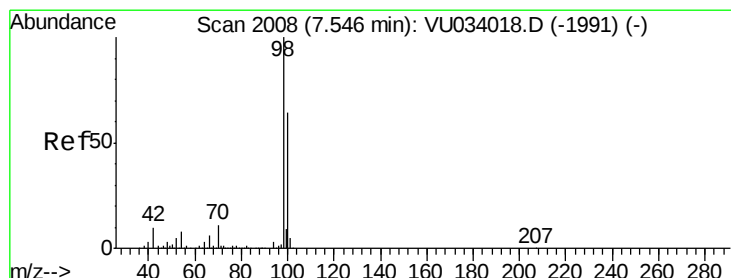
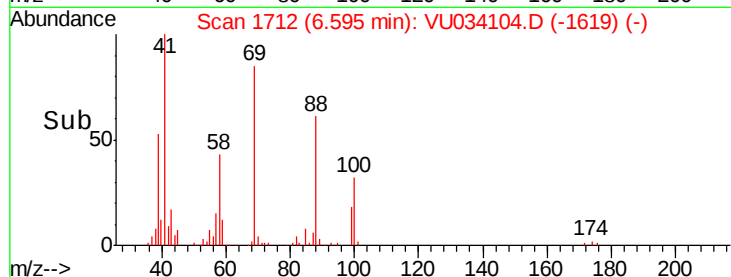
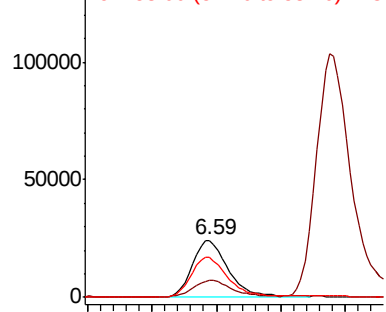
#49
 1,4-Dioxane
 Concen: 332.617 ug/l
 RT: 6.59 min Scan# 1712
 Delta R.T. 0.00 min
 Lab File: VU034104.D
 Acq: 30 Aug 2019 17:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0831MBSD01

Tgt Ion: 88 Resp: 47326
 Ion Ratio Lower Upper
 88 100
 43 30.0 24.8 37.2
 58 71.6 59.3 88.9

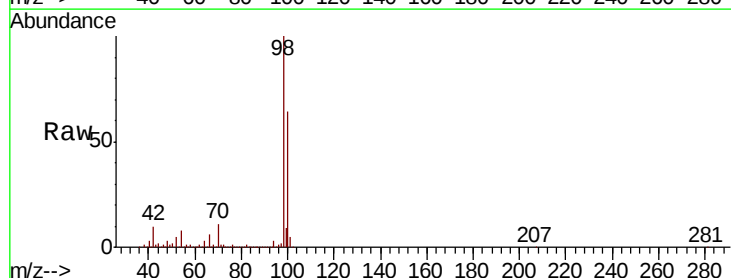


Abundance Ion 88.00 (87.70 to 88.70): VU0
 Ion 43.00 (42.70 to 43.70): VU0
 Ion 58.00 (57.70 to 58.70): VU0

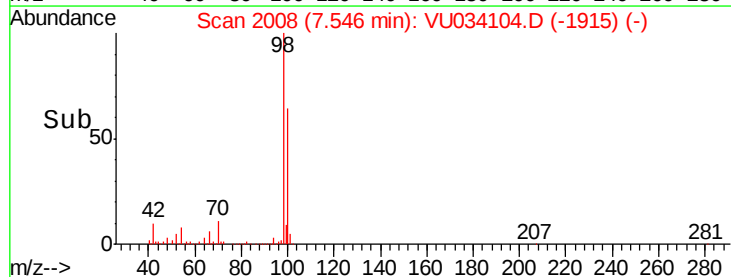
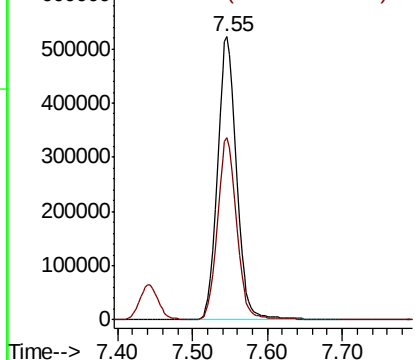


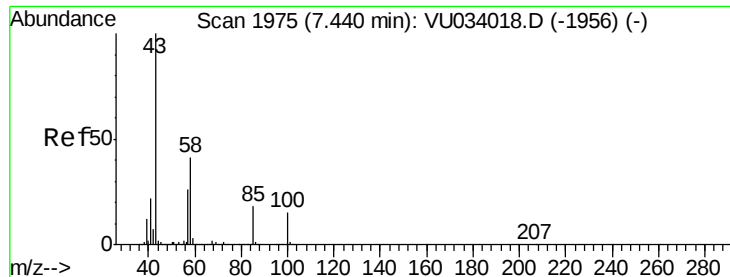
#50
 Toluene-d8
 Concen: 48.817 ug/l
 RT: 7.55 min Scan# 2008
 Delta R.T. 0.00 min
 Lab File: VU034104.D
 Acq: 30 Aug 2019 17:27

Tgt Ion: 98 Resp: 925865
 Ion Ratio Lower Upper
 98 100
 100 64.5 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VU0
 Ion 100.00 (99.70 to 100.70): VU0

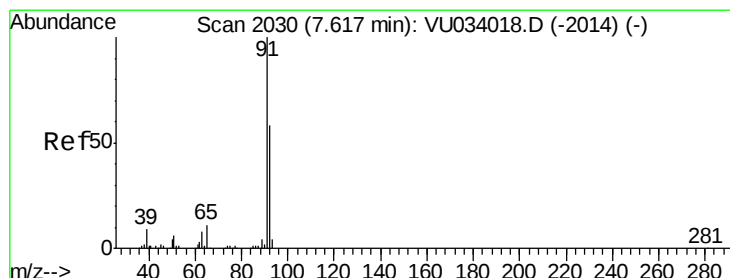
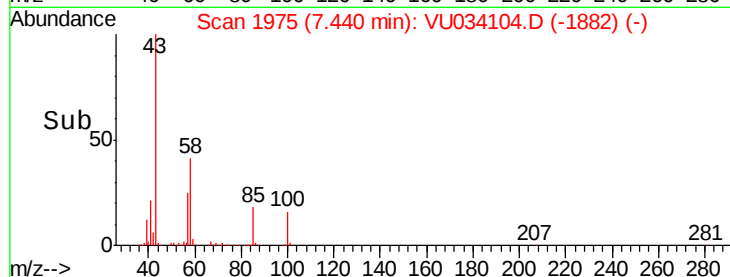
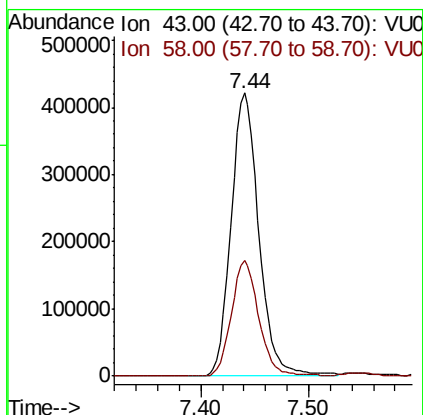
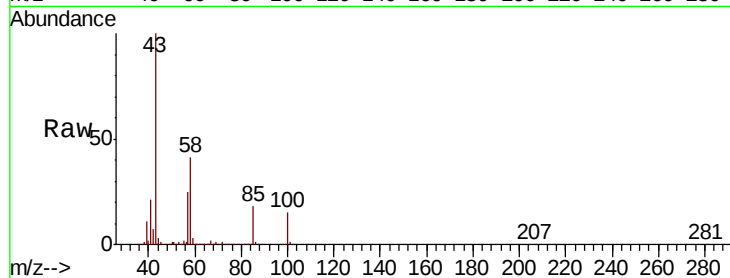




#51
 4-Methyl-2-Pentanone
 Concen: 93.179 ug/l
 RT: 7.44 min Scan# 1975
 Delta R.T. 0.00 min
 Lab File: VU034104.D
 Acq: 30 Aug 2019 17:27

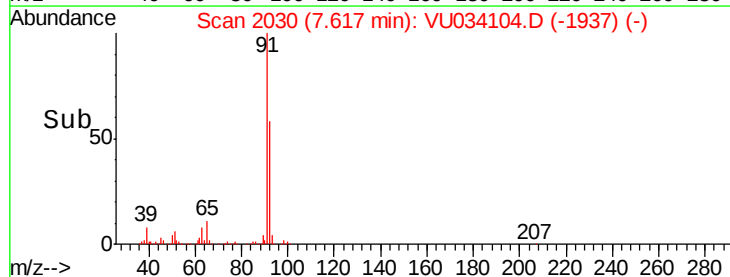
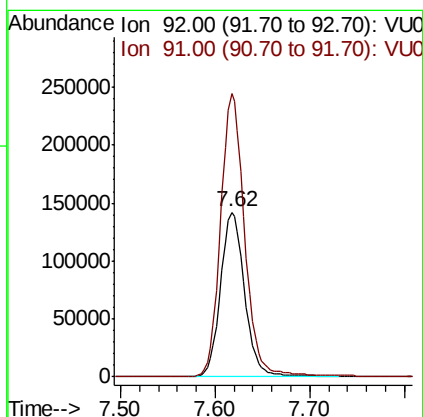
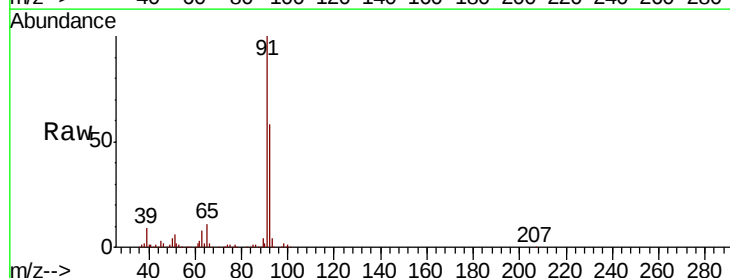
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0831MBSD01

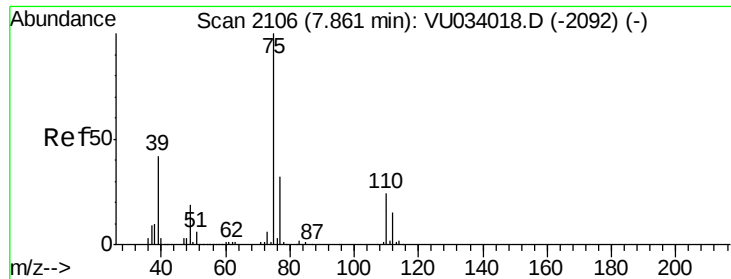
Tgt Ion: 43 Resp: 757274
 Ion Ratio Lower Upper
 43 100
 58 40.4 32.2 48.4



#52
 Toluene
 Concen: 19.683 ug/l
 RT: 7.62 min Scan# 2030
 Delta R.T. 0.00 min
 Lab File: VU034104.D
 Acq: 30 Aug 2019 17:27

Tgt Ion: 92 Resp: 253403
 Ion Ratio Lower Upper
 92 100
 91 171.0 138.3 207.5

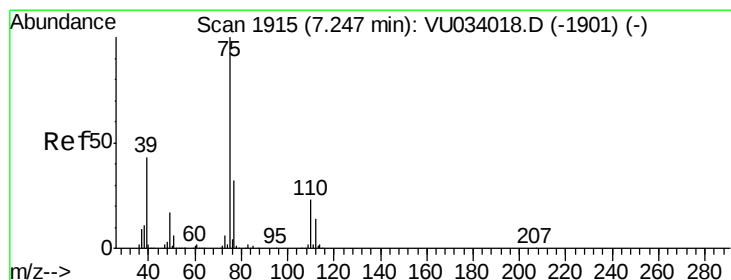
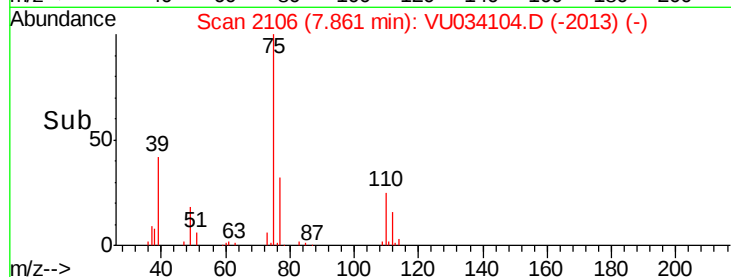
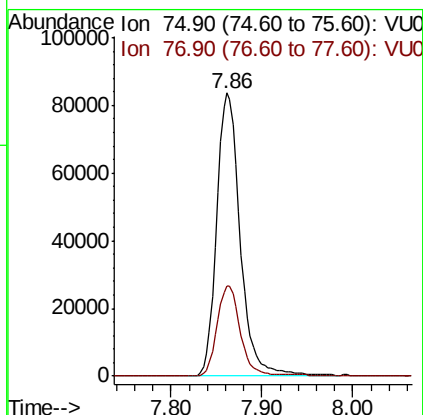
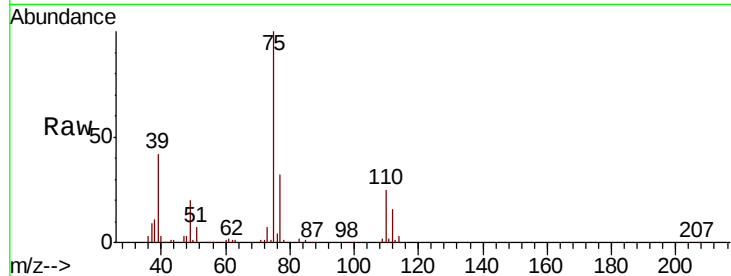




#53
 t-1,3-Dichloropropene
 Concen: 18.677 ug/l
 RT: 7.86 min Scan# 2106
 Delta R.T. 0.00 min
 Lab File: VU034104.D
 Acq: 30 Aug 2019 17:27

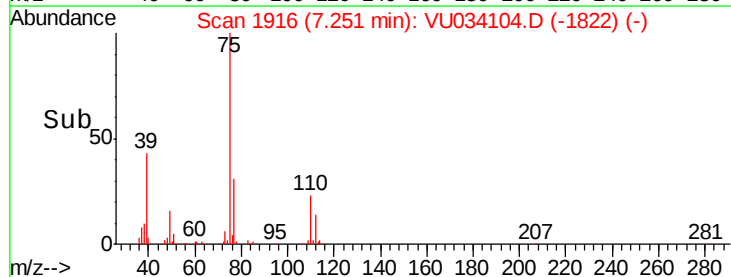
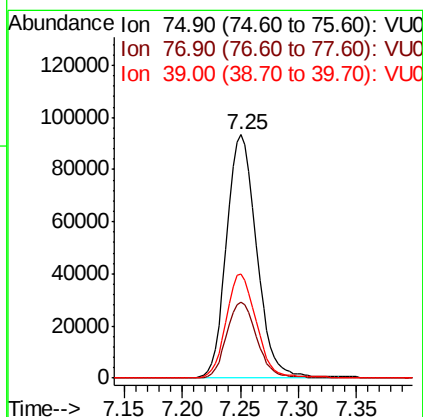
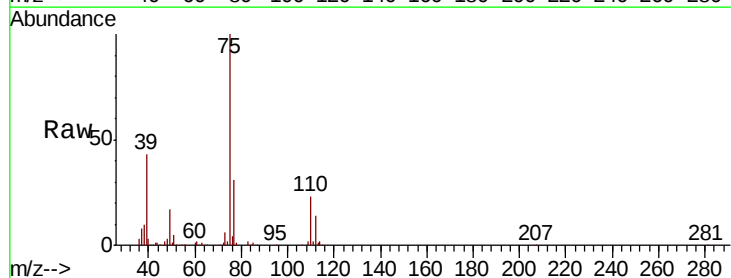
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0831MBS01

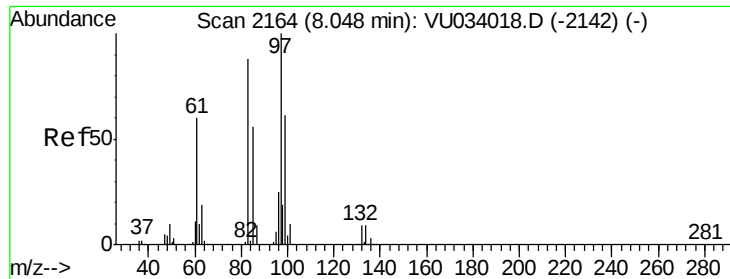
Tgt Ion: 75 Resp: 150280
 Ion Ratio Lower Upper
 75 100
 77 31.8 25.4 38.0



#54
 cis-1,3-Dichloropropene
 Concen: 19.120 ug/l
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VU034104.D
 Acq: 30 Aug 2019 17:27

Tgt Ion: 75 Resp: 168076
 Ion Ratio Lower Upper
 75 100
 77 31.2 25.2 37.8
 39 42.8 34.6 51.8





#55

1,1,2-Trichloroethane

Concen: 18.538 ug/l

RT: 8.05 min Scan# 2164

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

VU0831MBS01

Tgt Ion: 97 Resp: 100955

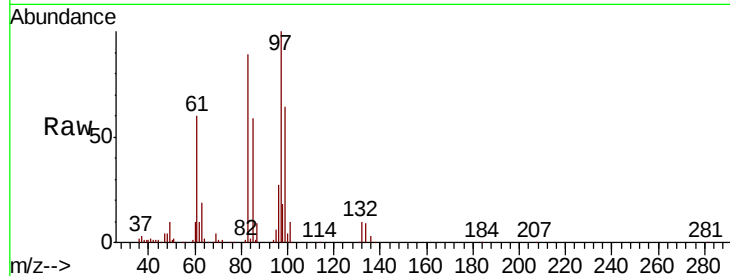
Ion Ratio Lower Upper

97 100

83 89.8 70.1 105.1

85 59.0 45.0 67.4

99 63.5 49.8 74.8

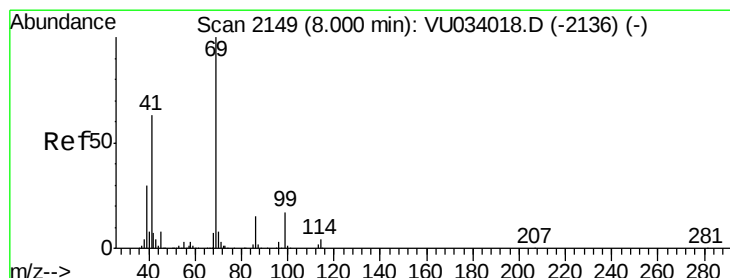
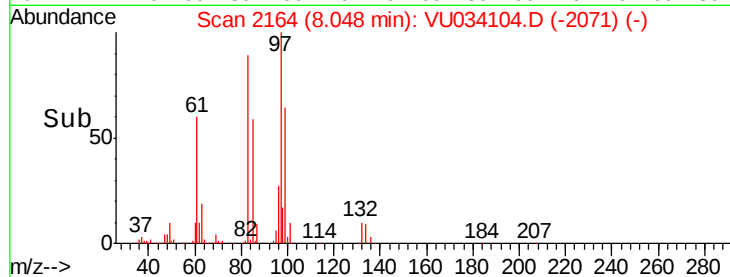
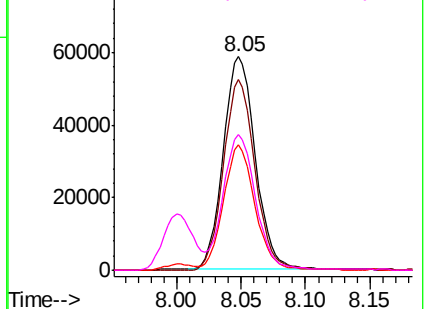


Abundance Ion 96.90 (96.60 to 97.60): VU0

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: 18.017 ug/l

RT: 8.00 min Scan# 2149

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

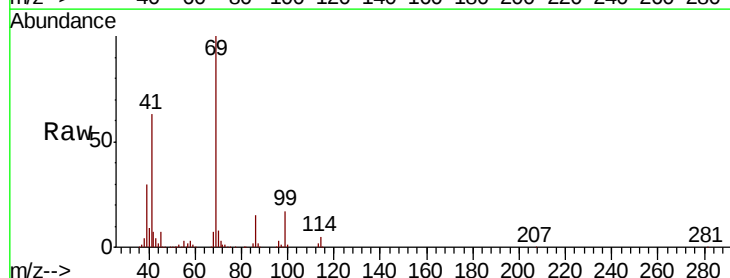
Tgt Ion: 69 Resp: 157026

Ion Ratio Lower Upper

69 100

41 63.7 50.7 76.1

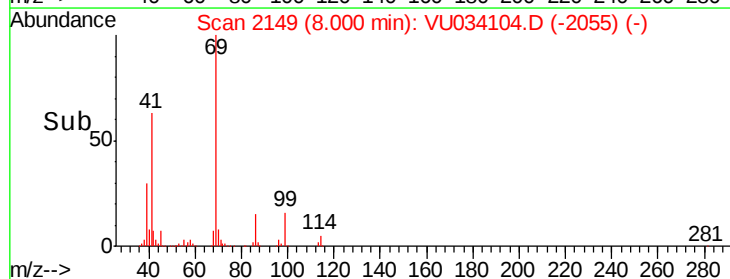
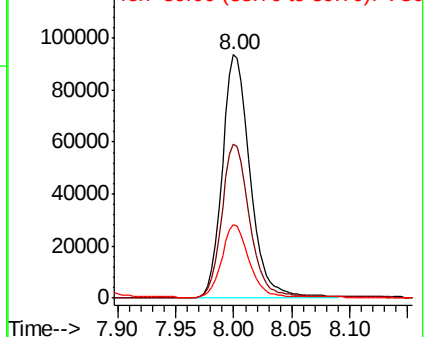
39 29.1 24.2 36.2

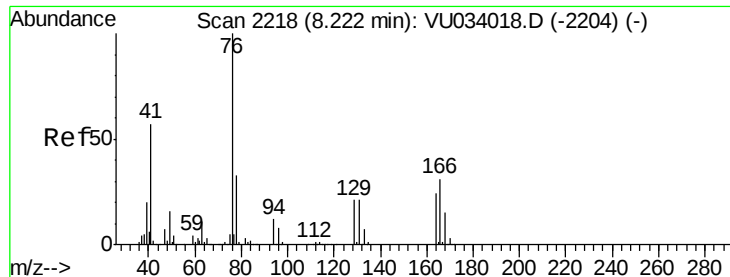


Abundance Ion 69.00 (68.70 to 69.70): VU0

Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0





#57

1,3-Dichloropropane

Concen: 19.007 ug/l

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

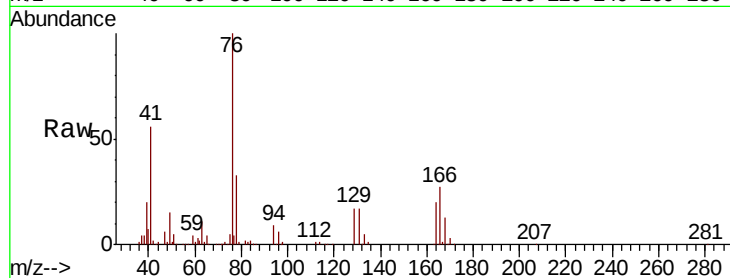
VU0831MBSD01

Tgt Ion: 76 Resp: 175746

Ion Ratio Lower Upper

76 100

78 32.7 26.2 39.4



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

8.22

100000

80000

60000

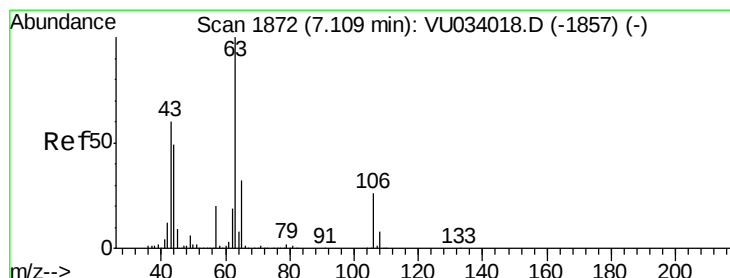
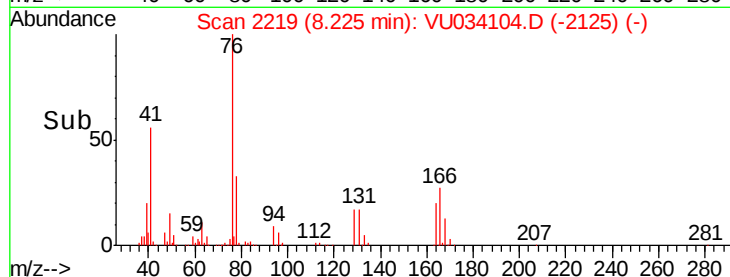
40000

20000

0

8.20 8.30

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 93.654 ug/l

RT: 7.11 min Scan# 1872

Delta R.T. 0.00 min

Lab File: VU034104.D

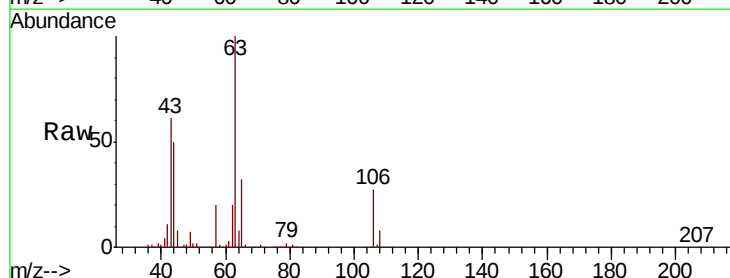
Acq: 30 Aug 2019 17:27

Tgt Ion: 63 Resp: 282155

Ion Ratio Lower Upper

63 100

106 26.7 20.7 31.1



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 105.90 (105.60 to 106.60): V

7.11

150000

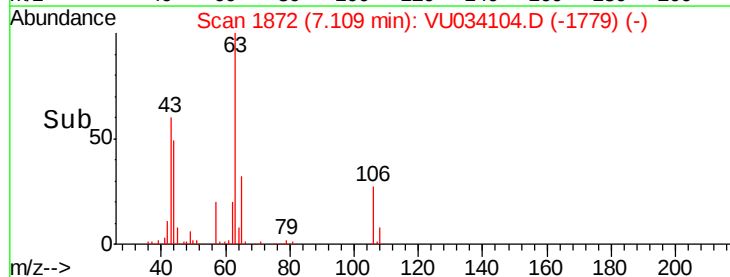
100000

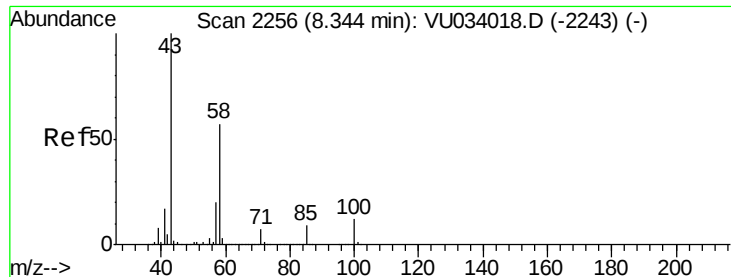
50000

0

7.00 7.10 7.20

Time-->

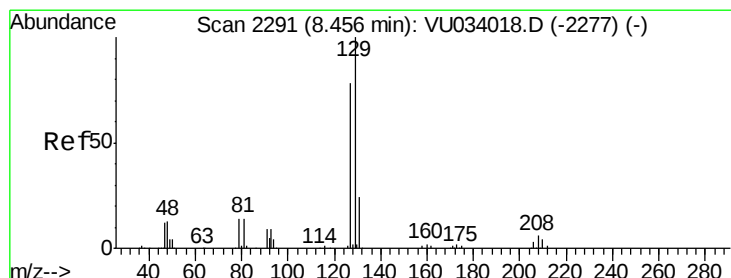
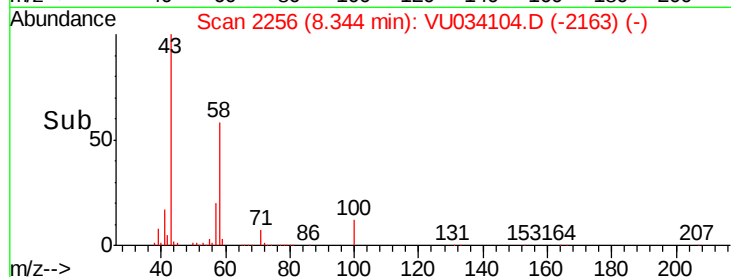
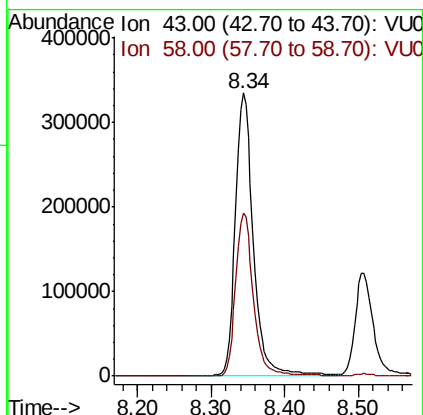
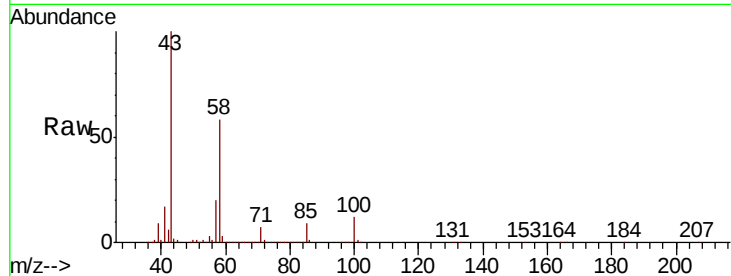




#59
2-Hexanone
Concen: 92.617 ug/l
RT: 8.34 min Scan# 2256
Delta R.T. 0.00 min
Lab File: VU034104.D
Acq: 30 Aug 2019 17:27

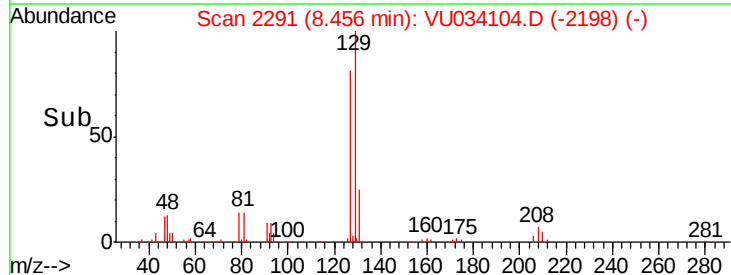
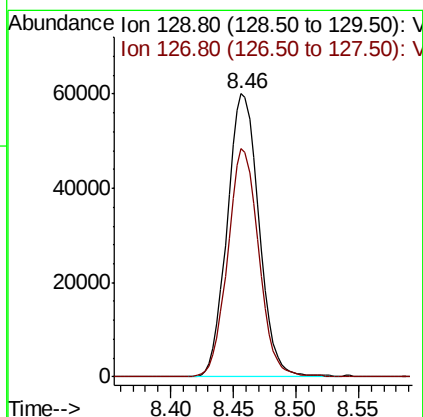
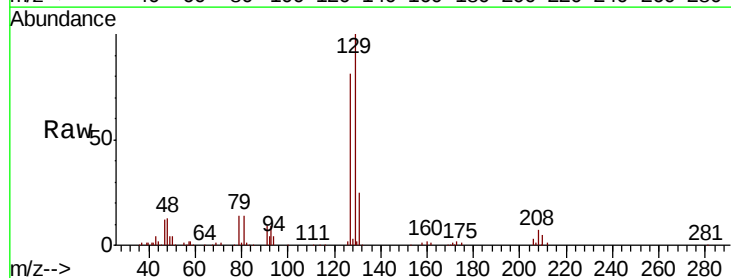
Instrument :
MSVOA_U
ClientSampleId :
VU0831MBSD01

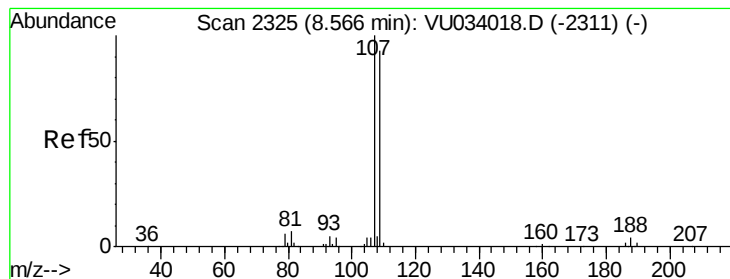
Tgt Ion: 43 Resp: 568229
Ion Ratio Lower Upper
43 100
58 57.7 28.4 85.3



#60
Dibromochloromethane
Concen: 18.126 ug/l
RT: 8.46 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU034104.D
Acq: 30 Aug 2019 17:27

Tgt Ion: 129 Resp: 105958
Ion Ratio Lower Upper
129 100
127 78.8 39.0 116.9





#61

1,2-Dibromoethane

Concen: 18.526 ug/l

RT: 8.57 min Scan# 2326

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

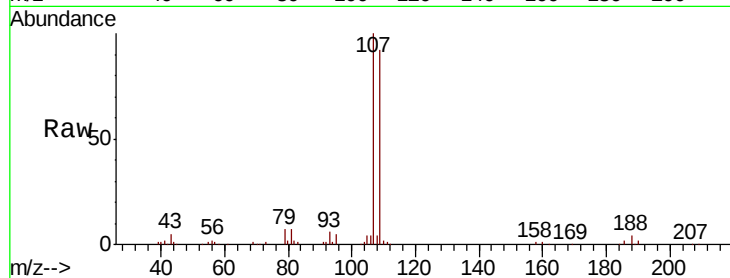
VU0831MBSD01

Tgt Ion:107 Resp: 106278

Ion Ratio Lower Upper

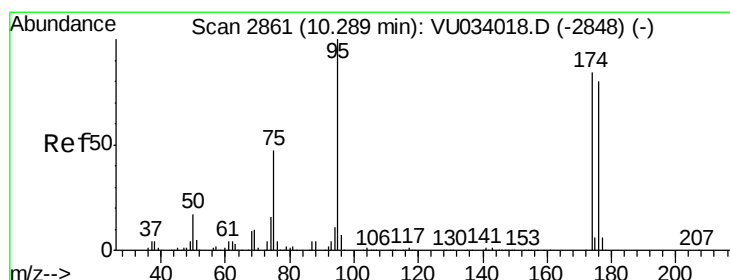
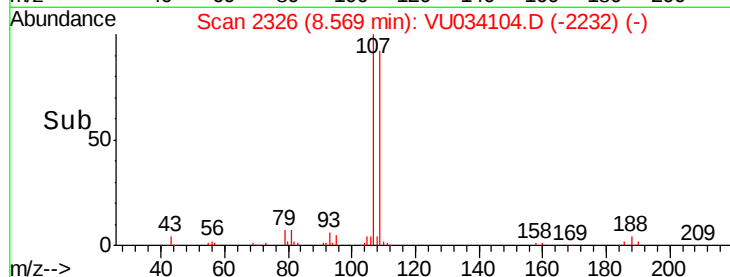
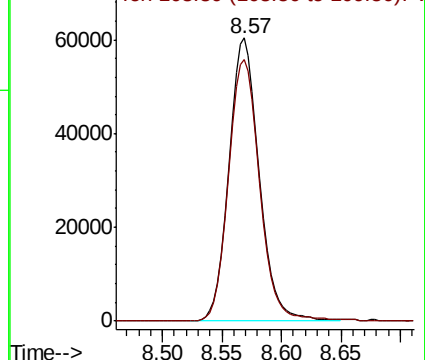
107 100

109 95.6 75.2 112.8



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 46.820 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

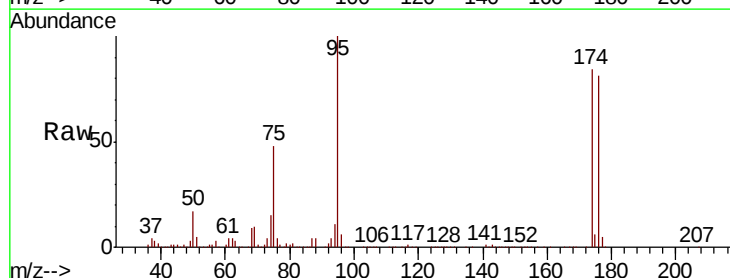
Tgt Ion: 95 Resp: 345423

Ion Ratio Lower Upper

95 100

174 84.4 0.0 168.8

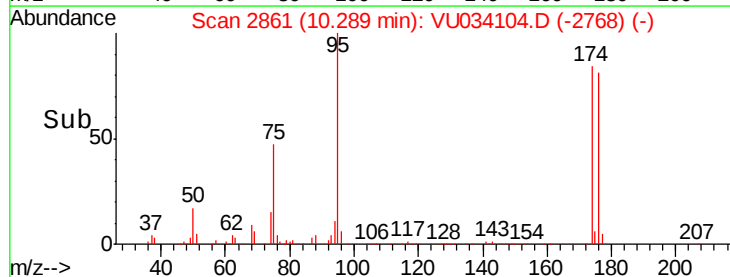
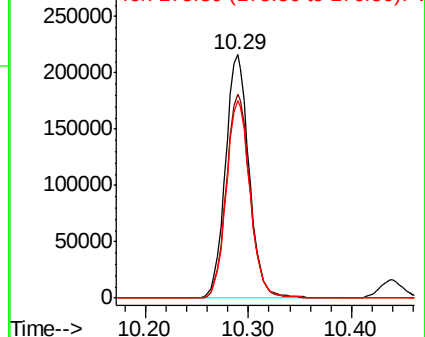
176 81.5 0.0 161.8

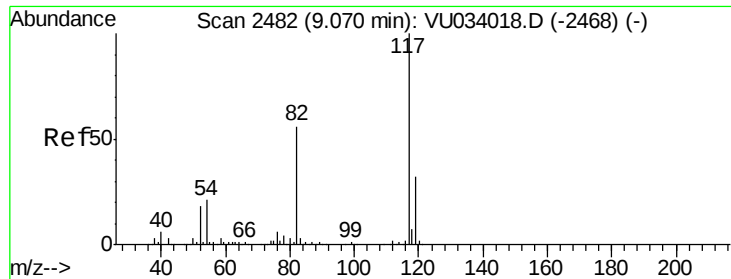


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

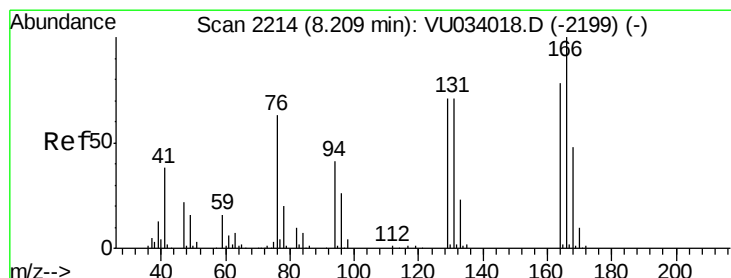
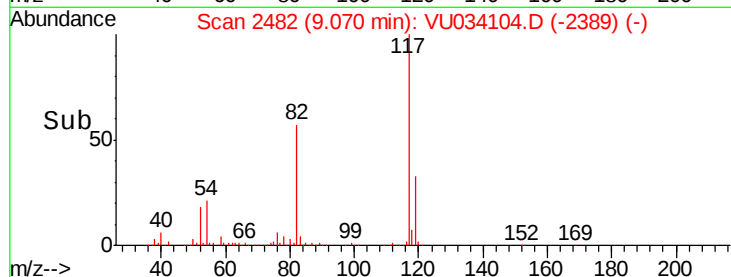
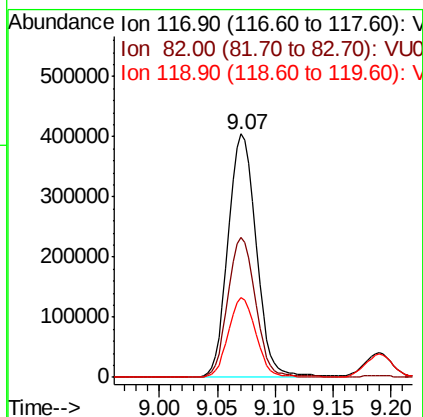
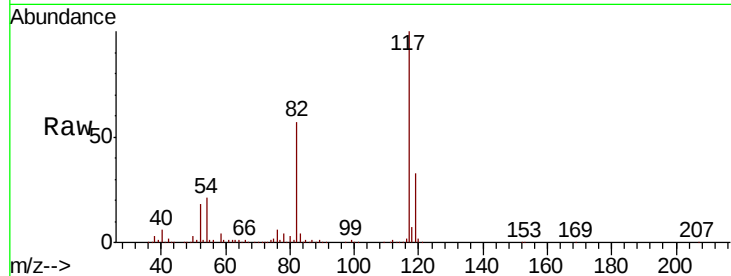




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034104.D
Acq: 30 Aug 2019 17:27

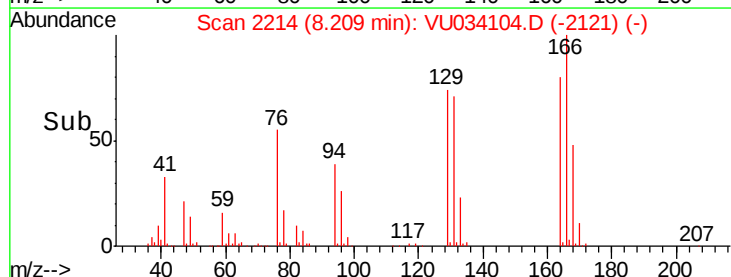
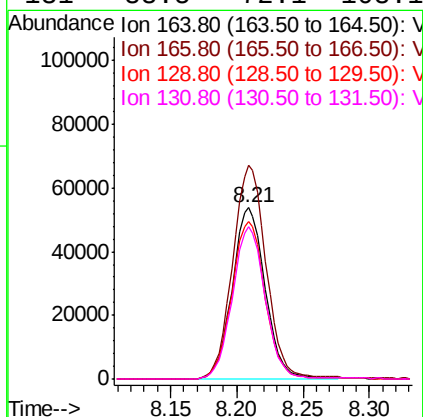
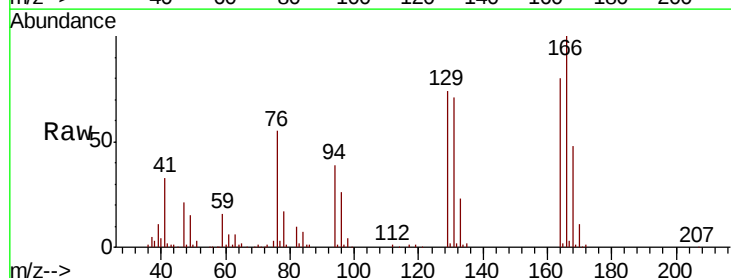
Instrument :
MSVOA_U
ClientSampleId :
VU0831MBSD01

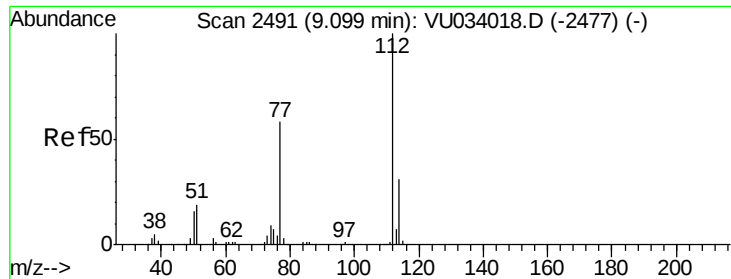
Tgt Ion:117 Resp: 682365
Ion Ratio Lower Upper
117 100
82 57.3 45.1 67.7
119 32.5 25.4 38.0



#64
Tetrachloroethene
Concen: 20.286 ug/l
RT: 8.21 min Scan# 2214
Delta R.T. 0.00 min
Lab File: VU034104.D
Acq: 30 Aug 2019 17:27

Tgt Ion:164 Resp: 92962
Ion Ratio Lower Upper
164 100
166 124.5 102.2 153.2
129 92.0 72.4 108.6
131 88.5 72.1 108.1

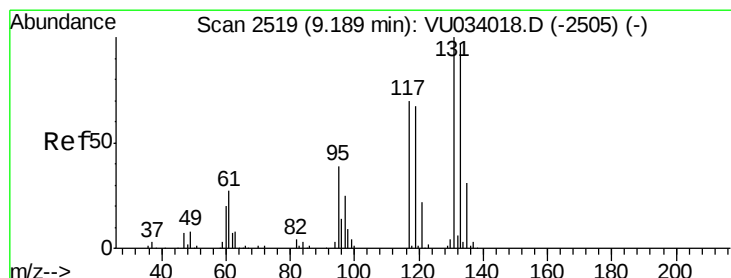
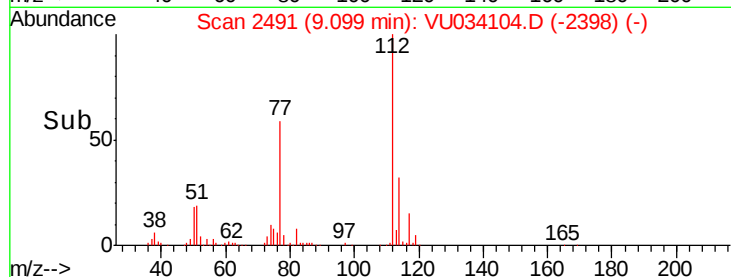
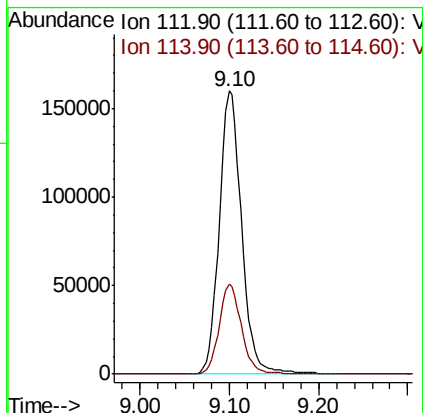
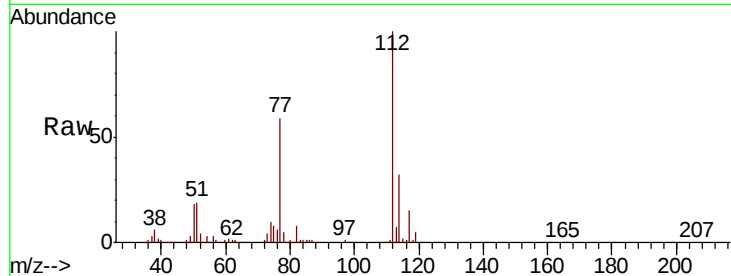




#65
Chlorobenzene
Concen: 19.777 ug/l
RT: 9.10 min Scan# 2491
Delta R.T. 0.00 min
Lab File: VU034104.D
Acq: 30 Aug 2019 17:27

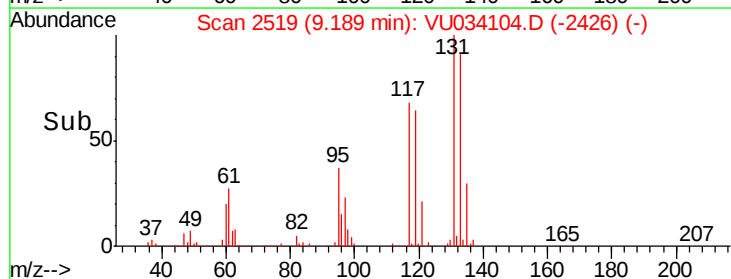
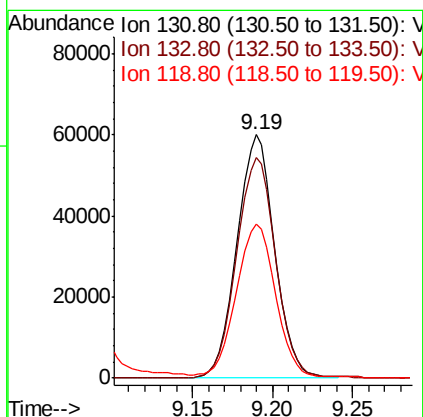
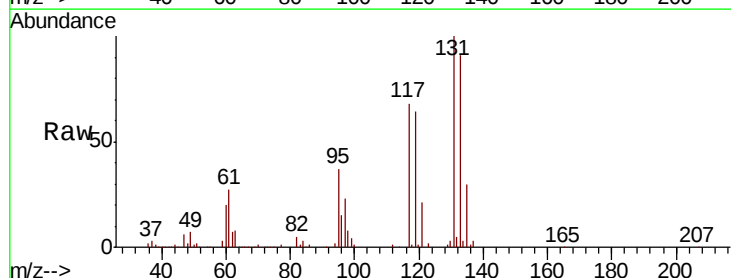
Instrument :
MSVOA_U
ClientSampleId :
VU0831MBSD01

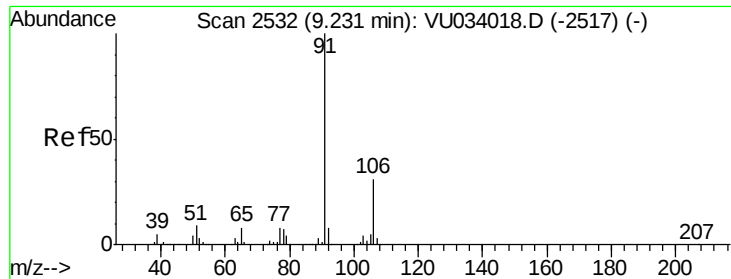
Tgt Ion:112 Resp: 277720
Ion Ratio Lower Upper
112 100
114 31.8 25.0 37.4



#66
1,1,1,2-Tetrachloroethane
Concen: 18.897 ug/l
RT: 9.19 min Scan# 2519
Delta R.T. 0.00 min
Lab File: VU034104.D
Acq: 30 Aug 2019 17:27

Tgt Ion:131 Resp: 96221
Ion Ratio Lower Upper
131 100
133 94.4 48.4 145.2
119 67.4 33.6 100.6

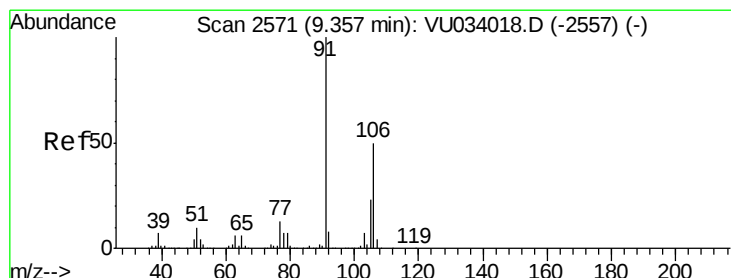
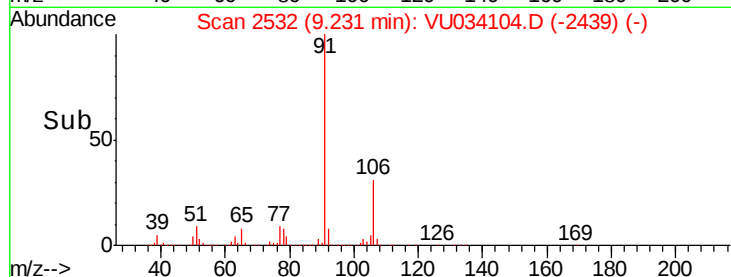
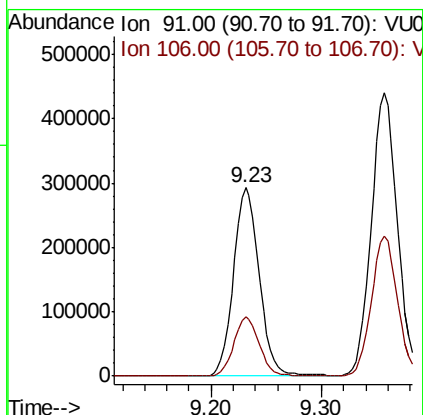
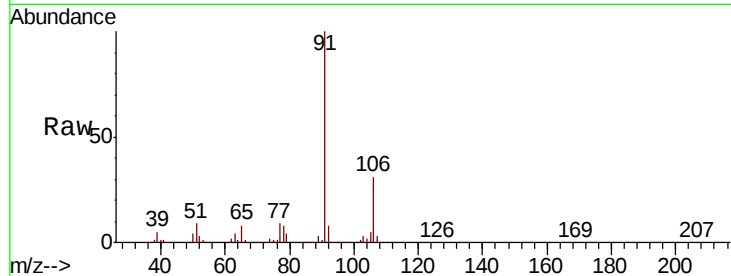




#67
 Ethyl Benzene
 Concen: 19.954 ug/l
 RT: 9.23 min Scan# 2532
 Delta R.T. 0.00 min
 Lab File: VU034104.D
 Acq: 30 Aug 2019 17:27

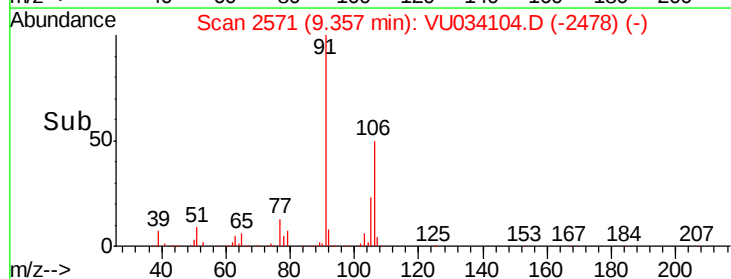
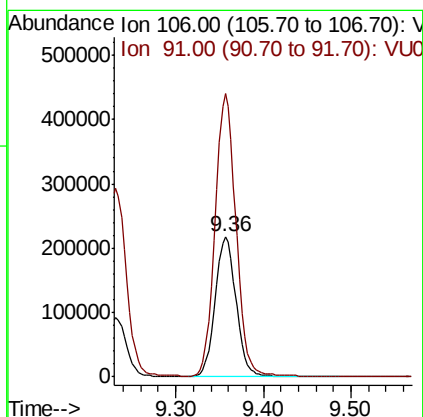
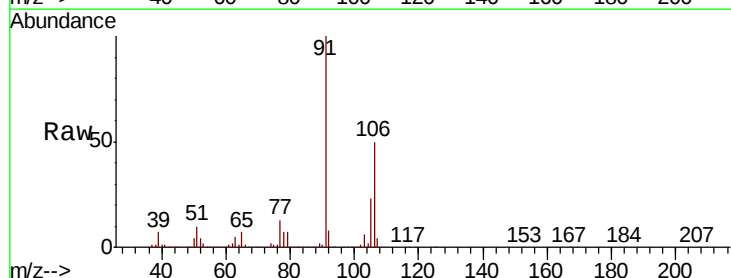
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0831MBSD01

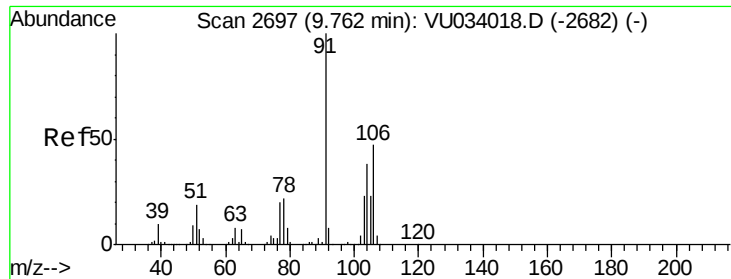
Tgt Ion: 91 Resp: 474983
 Ion Ratio Lower Upper
 91 100
 106 31.2 24.9 37.3



#68
 m/p-Xylenes
 Concen: 40.144 ug/l
 RT: 9.36 min Scan# 2571
 Delta R.T. 0.00 min
 Lab File: VU034104.D
 Acq: 30 Aug 2019 17:27

Tgt Ion: 106 Resp: 363352
 Ion Ratio Lower Upper
 106 100
 91 201.4 161.6 242.4

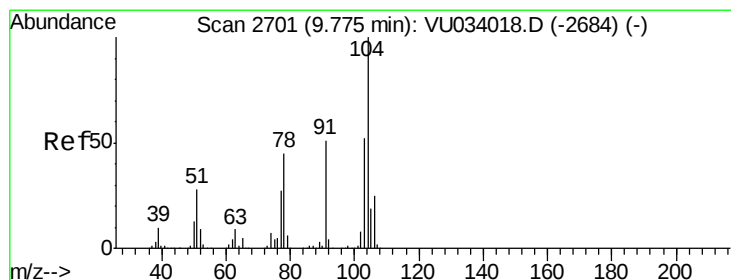
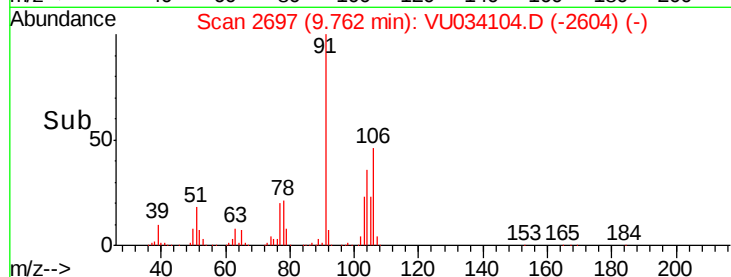
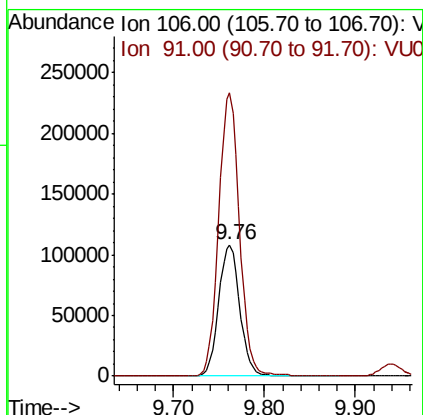
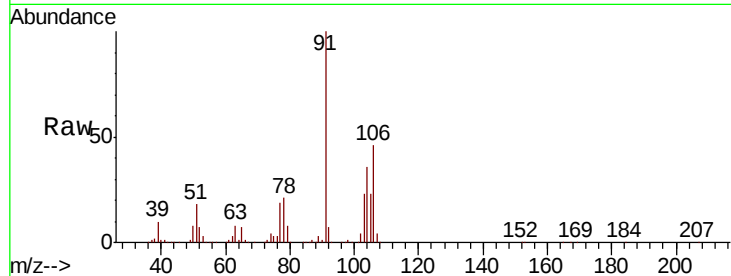




#69
o-Xylene
Concen: 20.094 ug/l
RT: 9.76 min Scan# 2697
Delta R.T. 0.00 min
Lab File: VU034104.D
Acq: 30 Aug 2019 17:27

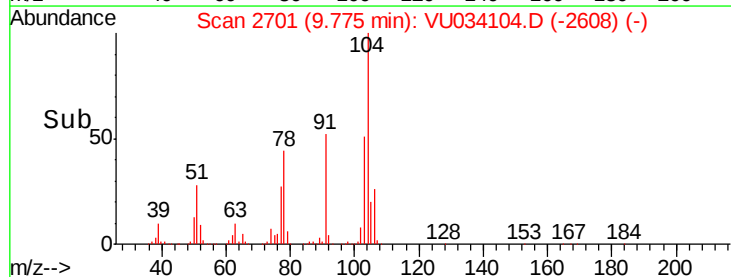
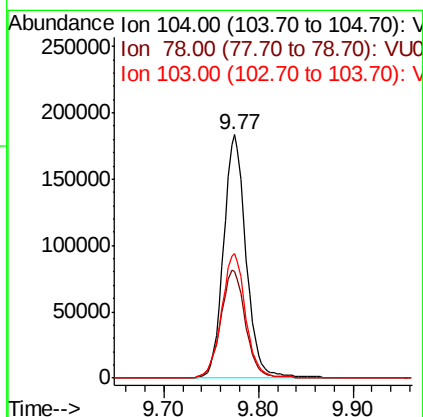
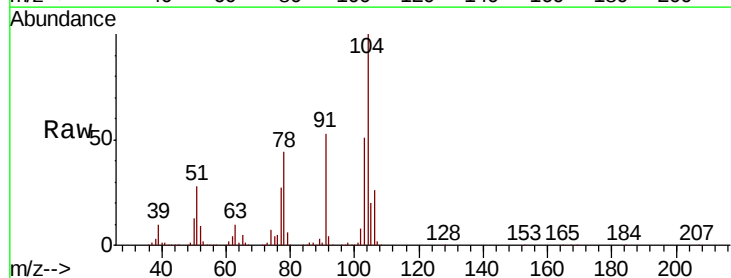
Instrument :
MSVOA_U
ClientSampleId :
VU0831MBSD01

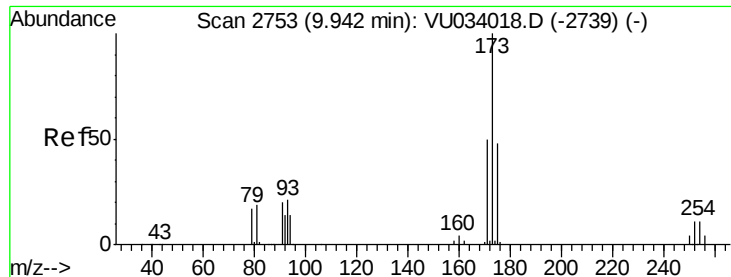
Tgt Ion:106 Resp: 174490
Ion Ratio Lower Upper
106 100
91 211.7 106.0 318.0



#70
Styrene
Concen: 20.455 ug/l
RT: 9.77 min Scan# 2701
Delta R.T. 0.00 min
Lab File: VU034104.D
Acq: 30 Aug 2019 17:27

Tgt Ion:104 Resp: 304552
Ion Ratio Lower Upper
104 100
78 48.8 39.0 58.4
103 54.8 44.0 66.0





#71

Bromoform

Concen: 18.070 ug/l

RT: 9.94 min Scan# 2752

Delta R.T. -0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

VU0831MBSD01

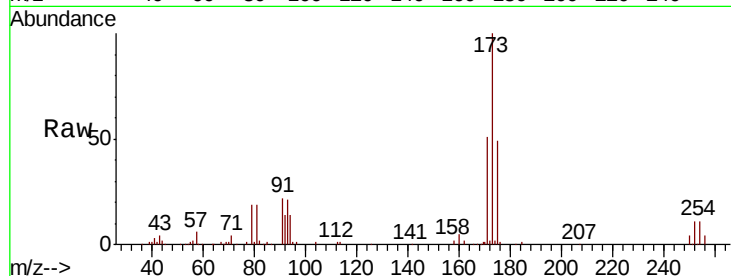
Tgt Ion:173 Resp: 79942

Ion Ratio Lower Upper

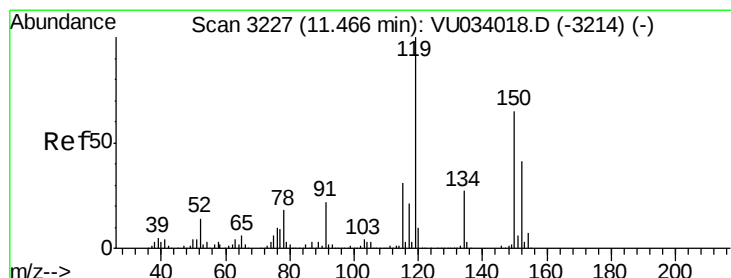
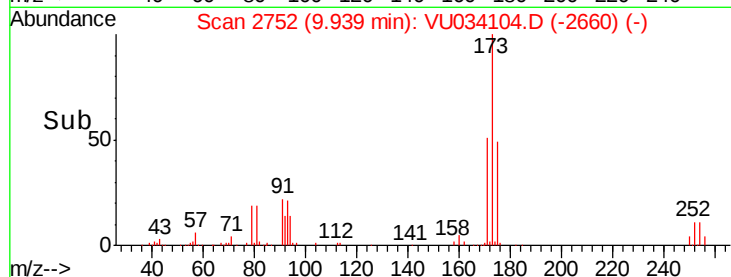
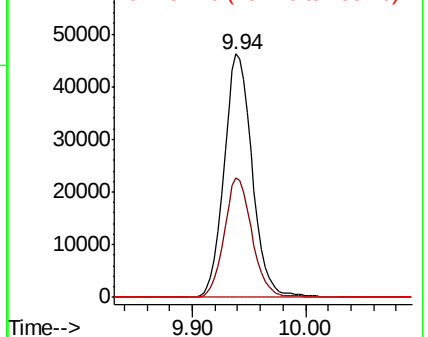
173 100

175 48.5 24.6 73.6

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: 11.47 min Scan# 3227

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

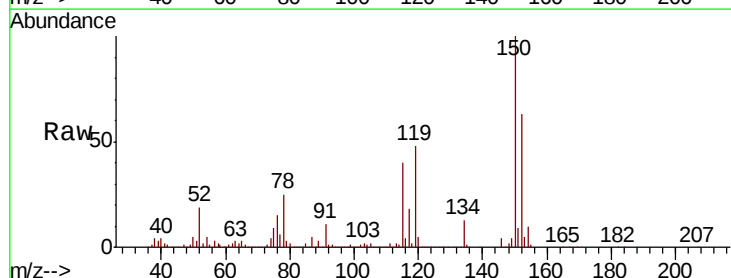
Tgt Ion:152 Resp: 354913

Ion Ratio Lower Upper

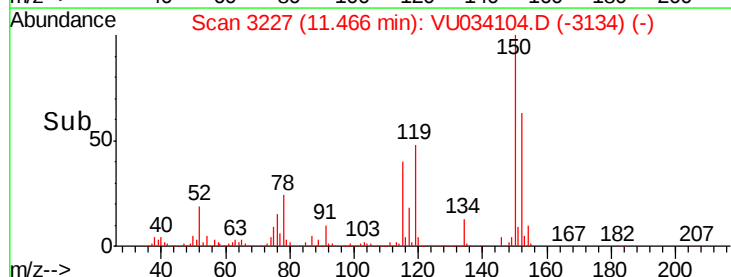
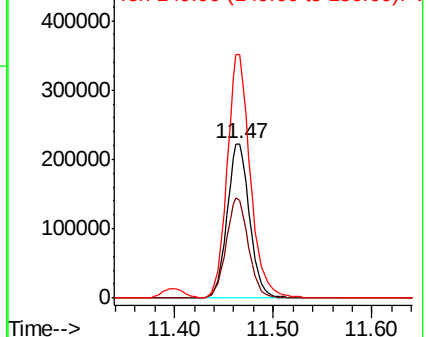
152 100

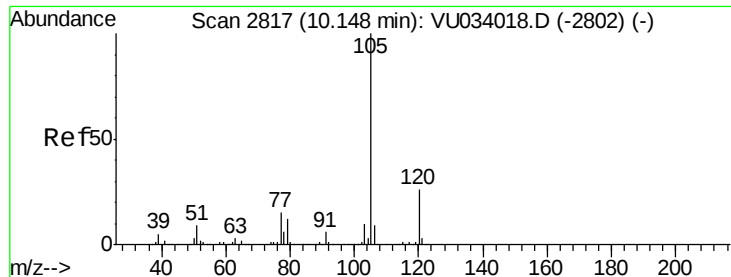
115 64.9 41.1 123.3

150 161.4 0.0 348.8



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: 19.346 ug/l

RT: 10.15 min Scan# 2817

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

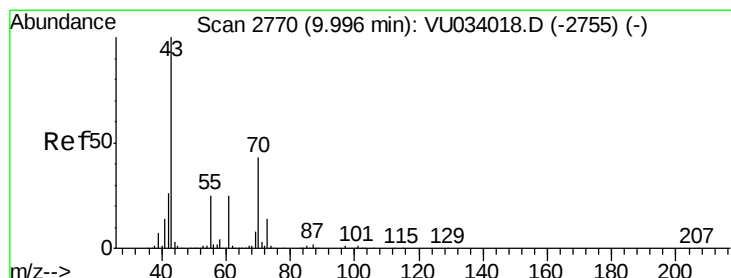
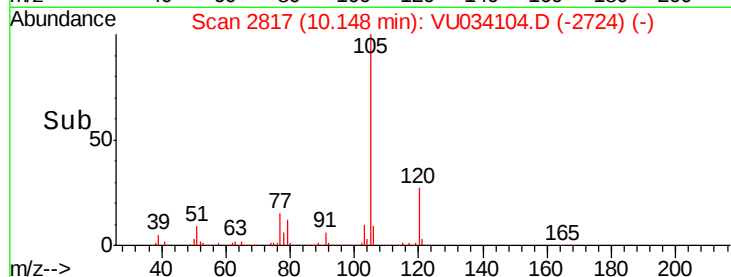
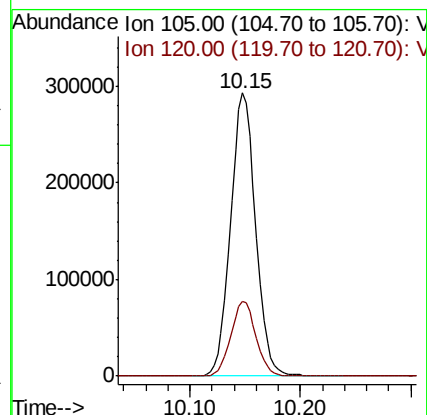
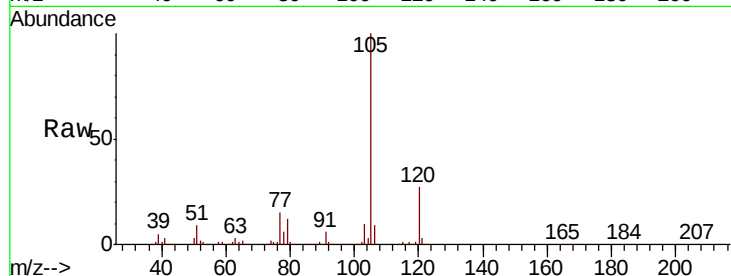
VU0831MBSD01

Tgt Ion: 105 Resp: 461191

Ion Ratio Lower Upper

105 100

120 26.5 13.3 39.8



#74

N-ethyl acetate

Concen: 19.674 ug/l

RT: 10.00 min Scan# 2770

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

Tgt Ion: 43 Resp: 197262

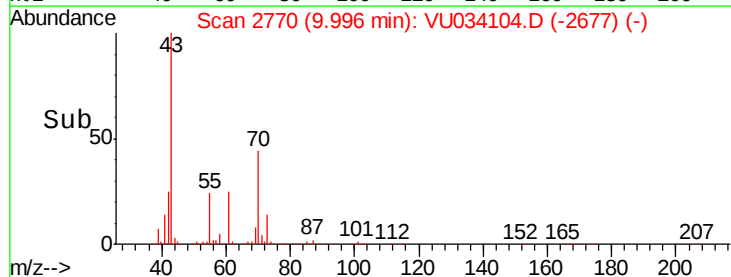
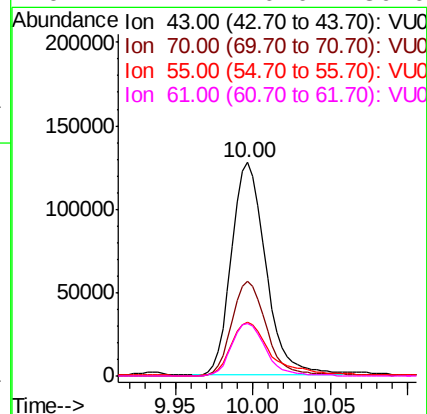
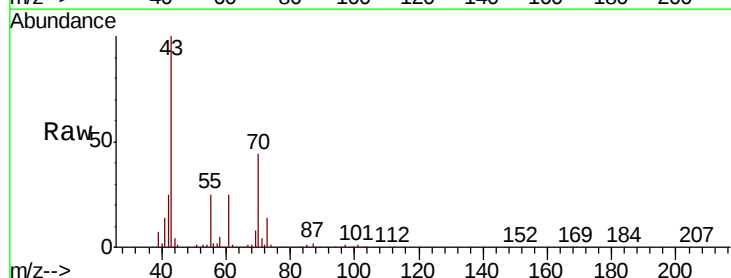
Ion Ratio Lower Upper

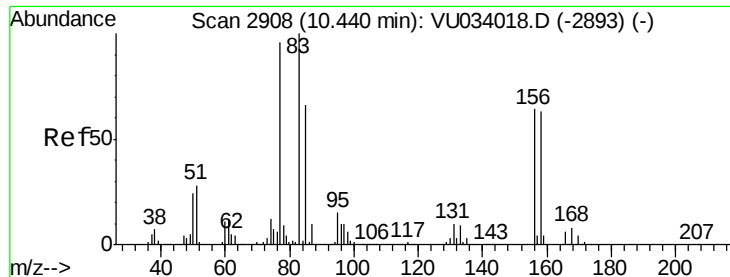
43 100

70 45.8 35.2 52.8

55 29.3 20.5 30.7

61 24.7 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 18.886 ug/l

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

VU0831MBS01

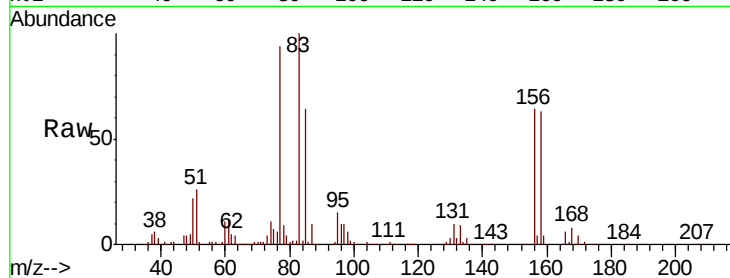
Tgt Ion: 83 Resp: 172322

Ion Ratio Lower Upper

83 100

131 9.3 5.0 14.9

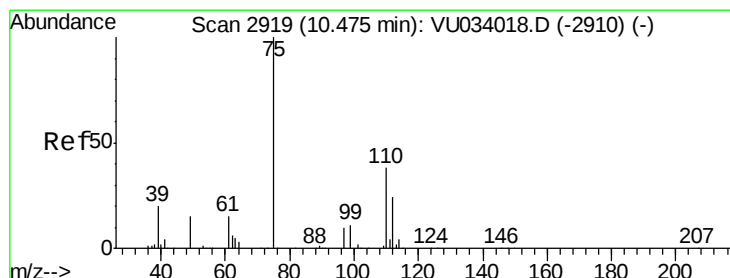
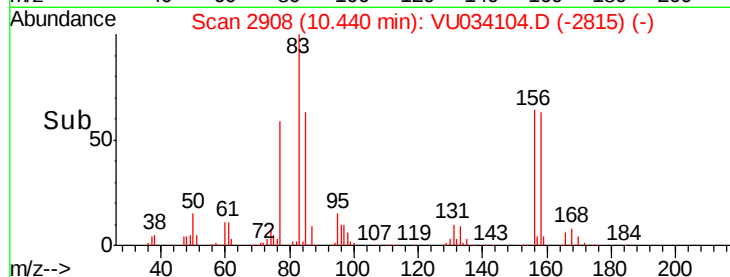
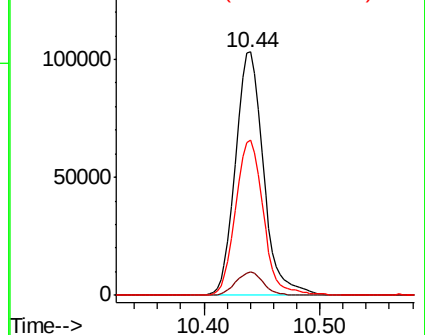
85 63.5 32.2 96.6



Abundance Ion 82.90 (82.60 to 83.60): VU034104.D (-2893) (-)

Ion 130.80 (130.50 to 131.50): VU034104.D (-2893) (-)

Ion 84.90 (84.60 to 85.60): VU034104.D (-2893) (-)



#76

1,2,3-Trichloropropane

Concen: 23.235 ug/l

RT: 10.48 min Scan# 2919

Delta R.T. 0.00 min

Lab File: VU034104.D

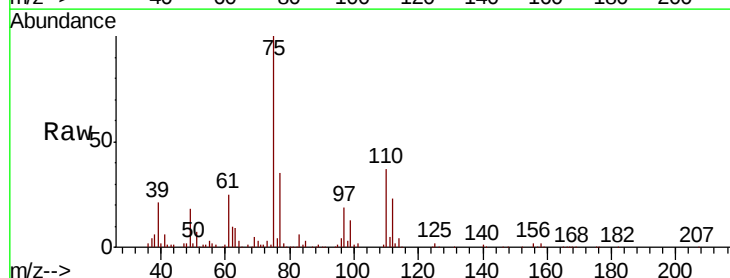
Acq: 30 Aug 2019 17:27

Tgt Ion: 75 Resp: 185857

Ion Ratio Lower Upper

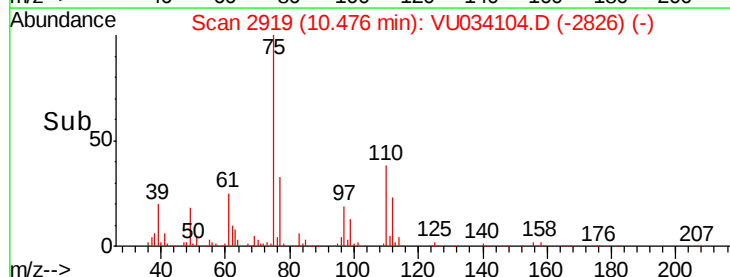
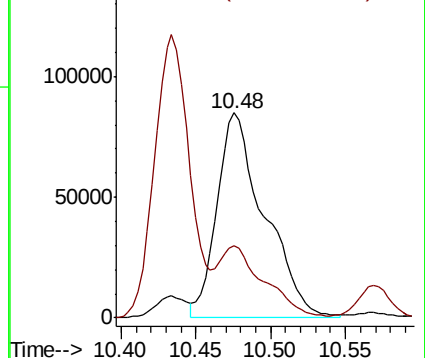
75 100

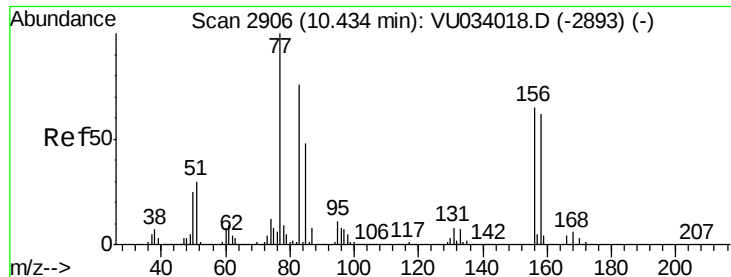
77 32.2 20.1 60.2



Abundance Ion 74.90 (74.60 to 75.60): VU034104.D (-2826) (-)

Ion 77.00 (76.70 to 77.70): VU034104.D (-2826) (-)





#77

Bromobenzene

Concen: 19.506 ug/l

RT: 10.43 min Scan# 2906

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

VU0831MBSD01

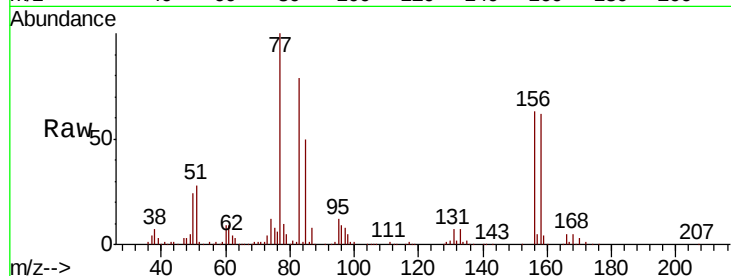
Tgt Ion:156 Resp: 125091

Ion Ratio Lower Upper

156 100

77 153.4 76.8 230.5

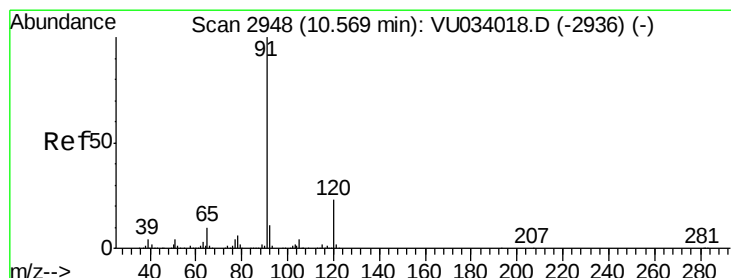
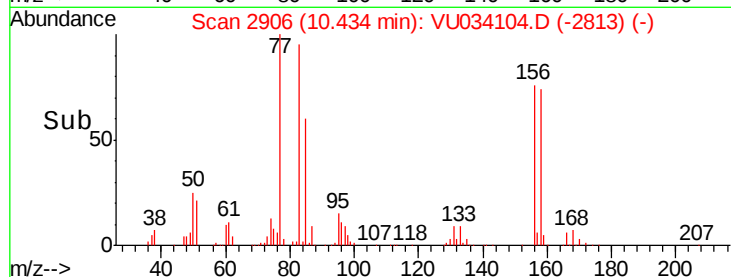
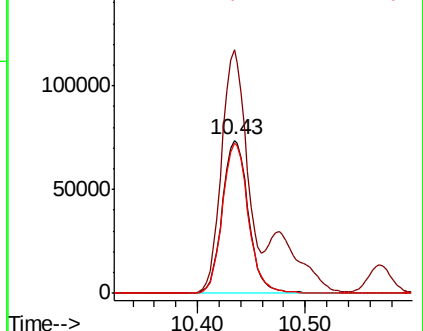
158 97.4 48.4 145.0



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: 18.943 ug/l

RT: 10.57 min Scan# 2948

Delta R.T. 0.00 min

Lab File: VU034104.D

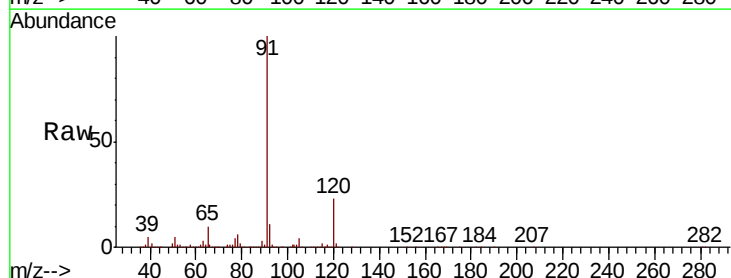
Acq: 30 Aug 2019 17:27

Tgt Ion: 91 Resp: 525905

Ion Ratio Lower Upper

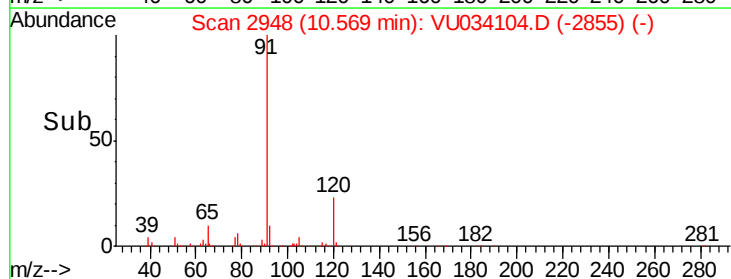
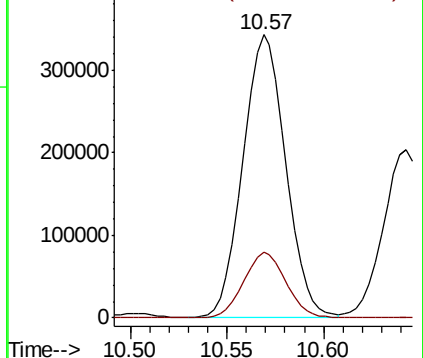
91 100

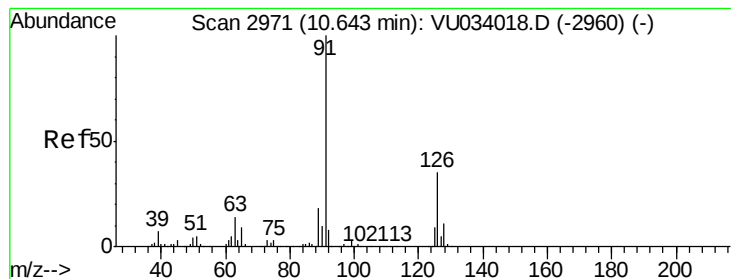
120 23.0 11.7 35.0



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 19.521 ug/l

RT: 10.64 min Scan# 2971

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

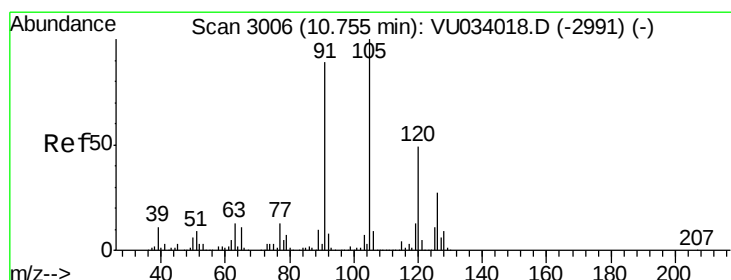
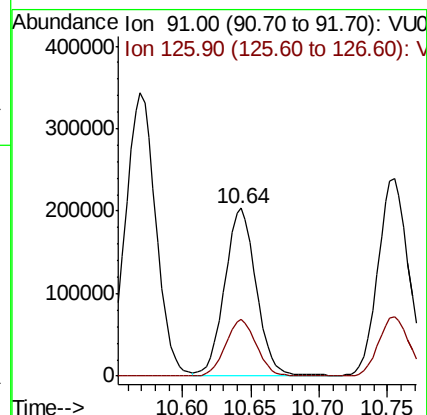
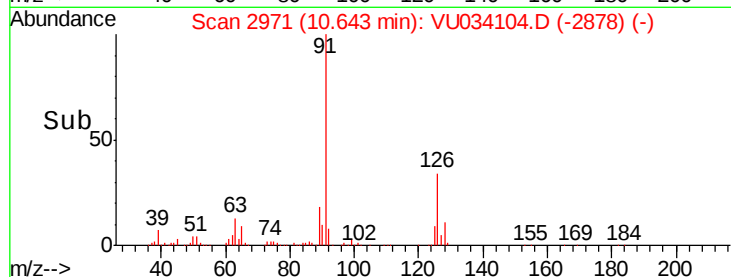
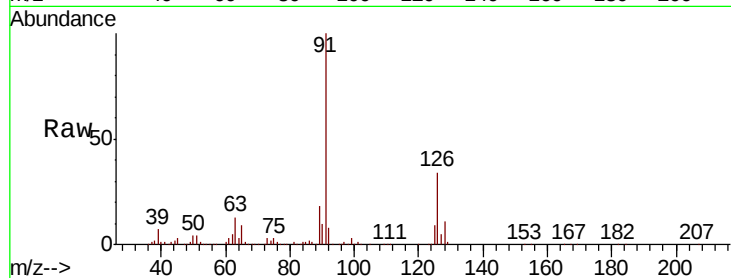
VU0831MBSD01

Tgt Ion: 91 Resp: 325067

Ion Ratio Lower Upper

91 100

126 33.5 17.1 51.2



#80

1,3,5-Trimethylbenzene

Concen: 19.099 ug/l

RT: 10.76 min Scan# 3006

Delta R.T. 0.00 min

Lab File: VU034104.D

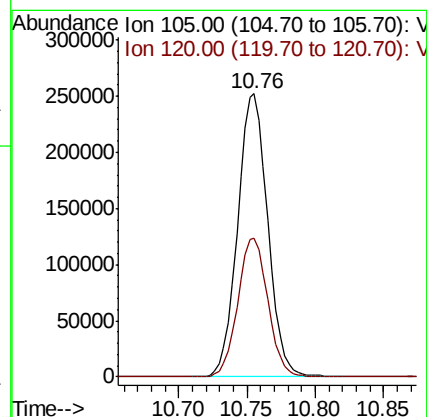
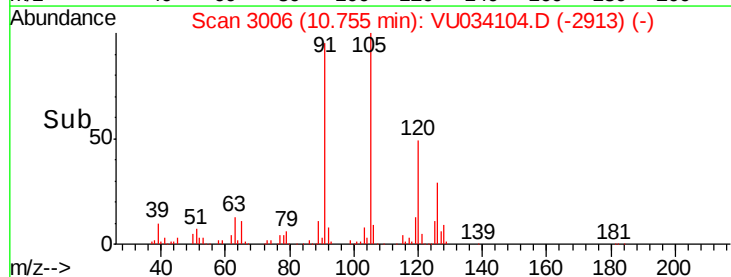
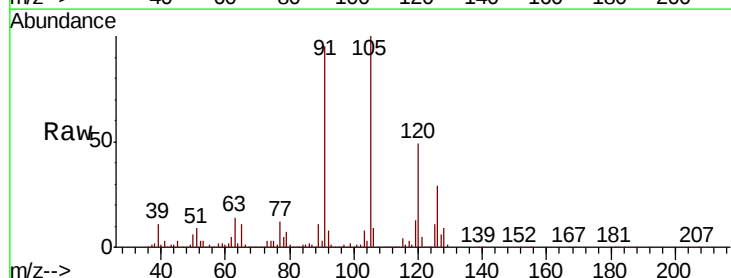
Acq: 30 Aug 2019 17:27

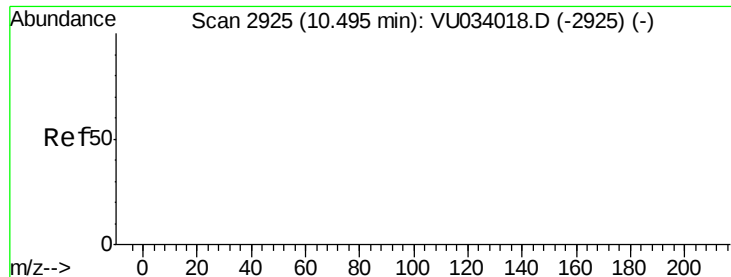
Tgt Ion: 105 Resp: 385897

Ion Ratio Lower Upper

105 100

120 49.0 24.6 73.6





#81

trans-1,4-Dichloro-2-butene

Concen: 78.571 ug/l

RT: 10.48 min Scan# 2919

Delta R.T. -0.02 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

VU0831MBS01

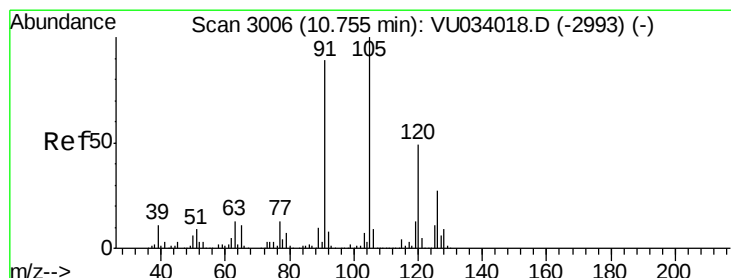
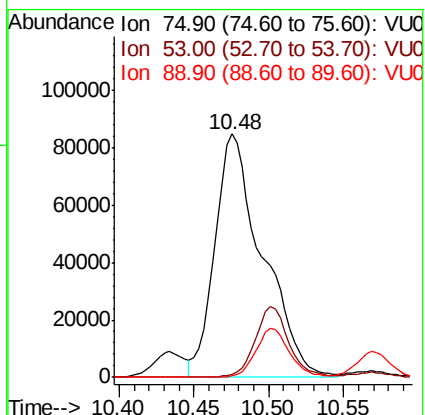
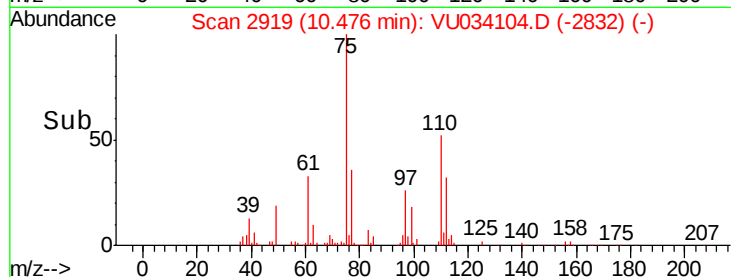
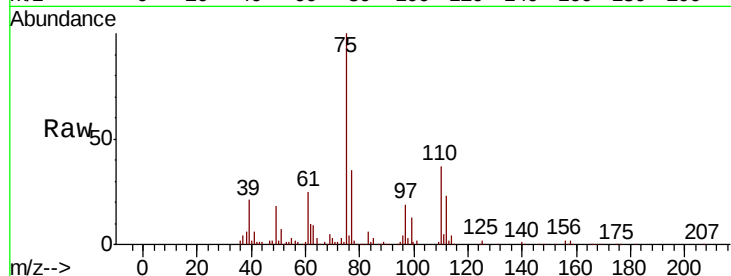
Tgt Ion: 75 Resp: 186650

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0



#82

4-Chlorotoluene

Concen: 19.727 ug/l

RT: 10.76 min Scan# 3006

Delta R.T. 0.00 min

Lab File: VU034104.D

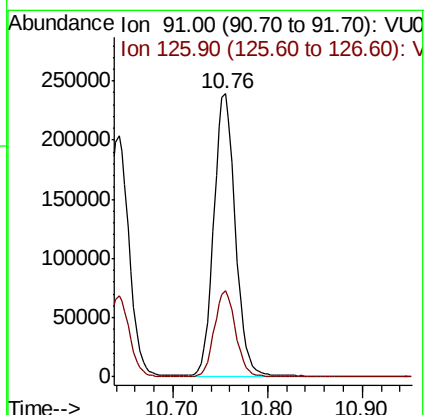
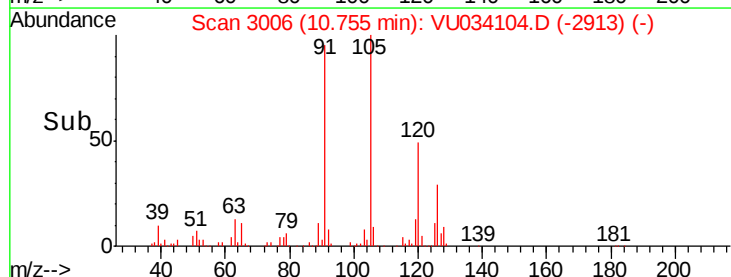
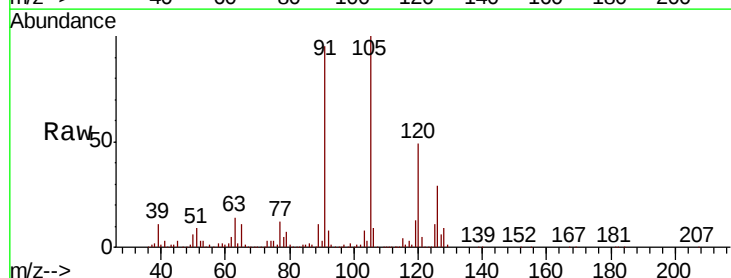
Acq: 30 Aug 2019 17:27

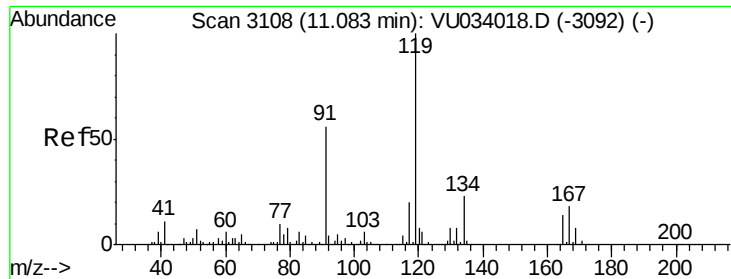
Tgt Ion: 91 Resp: 377796

Ion Ratio Lower Upper

91 100

126 30.1 15.0 45.1

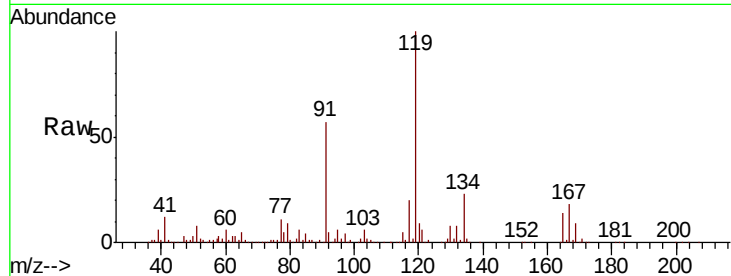




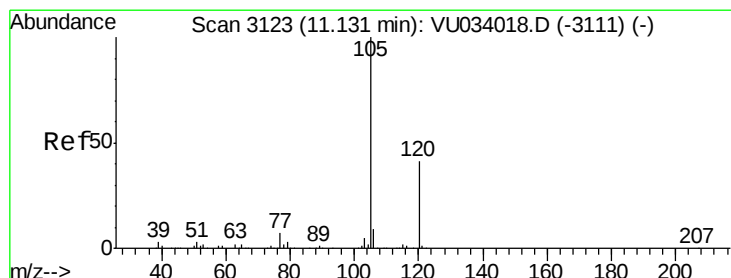
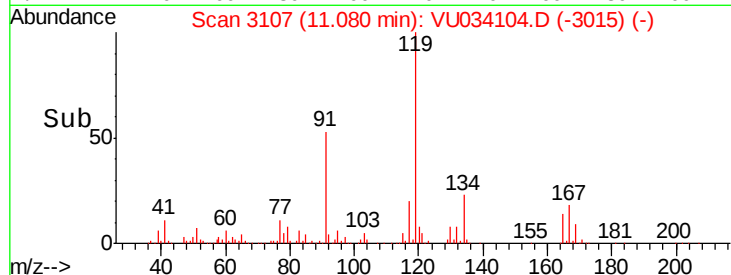
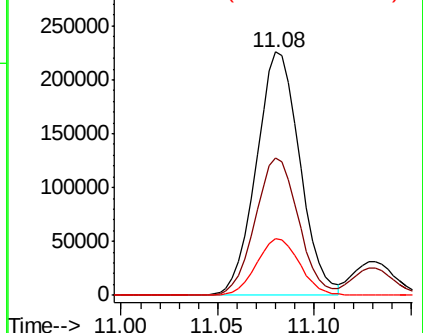
#83
 tert-Butylbenzene
 Concen: 17.813 ug/l
 RT: 11.08 min Scan# 3107
 Delta R.T. -0.00 min
 Lab File: VU034104.D
 Acq: 30 Aug 2019 17:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0831MBSD01

Tgt Ion:119 Resp: 354305
 Ion Ratio Lower Upper
 119 100
 91 55.7 27.9 83.6
 134 23.3 11.4 34.2

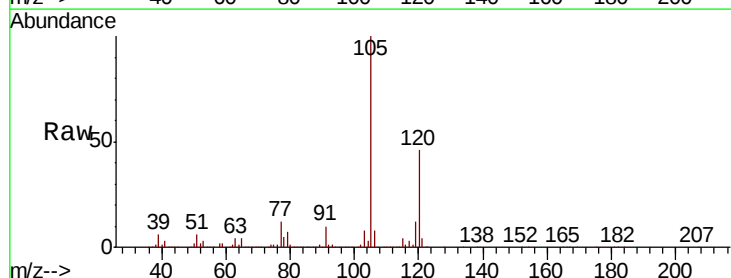


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): VU
 Ion 134.00 (133.70 to 134.70): V

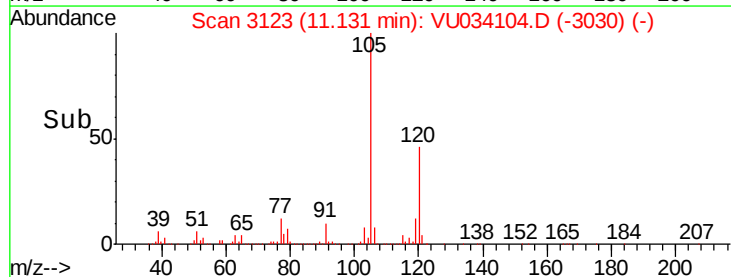
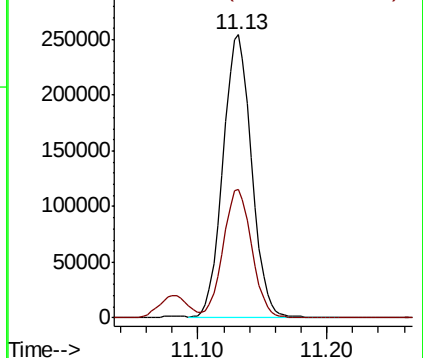


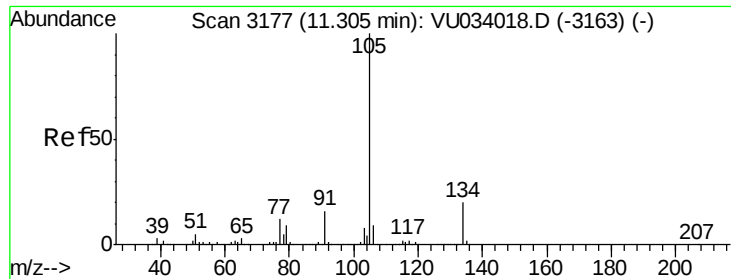
#84
 1,2,4-Trimethylbenzene
 Concen: 19.444 ug/l
 RT: 11.13 min Scan# 3123
 Delta R.T. 0.00 min
 Lab File: VU034104.D
 Acq: 30 Aug 2019 17:27

Tgt Ion:105 Resp: 390124
 Ion Ratio Lower Upper
 105 100
 120 45.6 22.6 67.8



Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 17.018 ug/l

RT: 11.31 min Scan# 3177

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

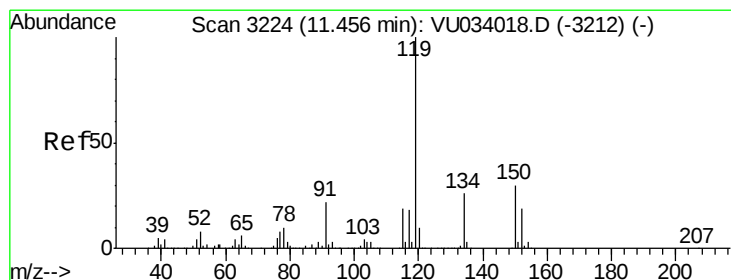
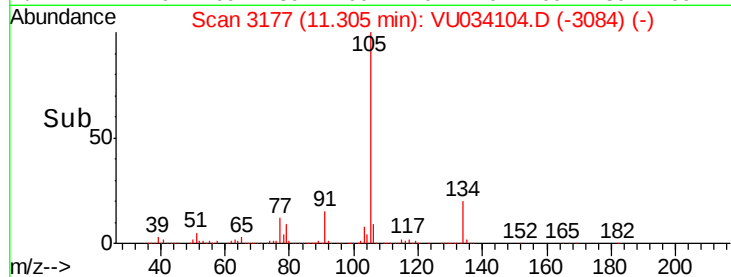
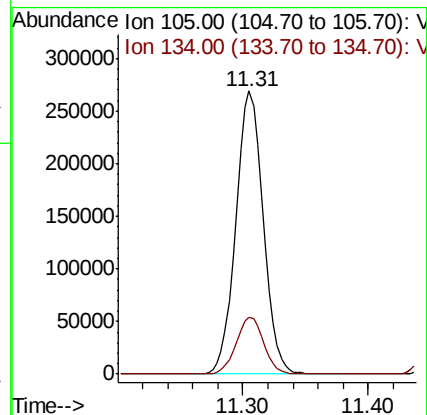
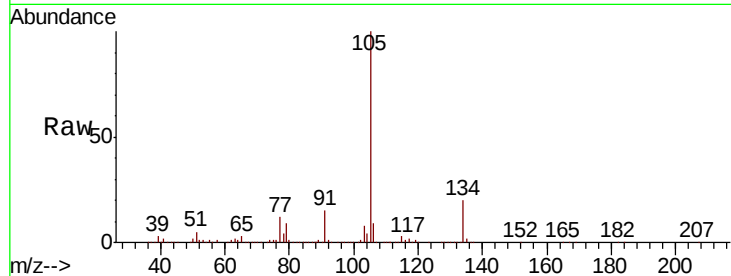
VU0831MBSD01

Tgt Ion:105 Resp: 405700

Ion Ratio Lower Upper

105 100

134 20.4 10.0 30.0



#86

p-Isopropyltoluene

Concen: 17.319 ug/l

RT: 11.46 min Scan# 3224

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

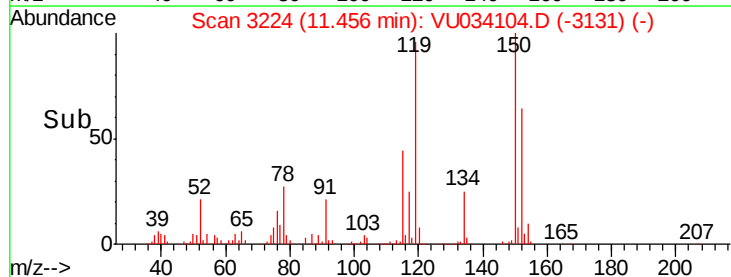
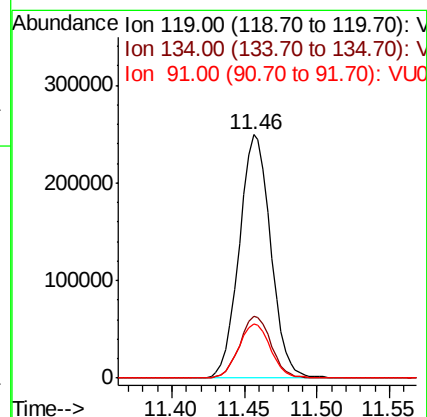
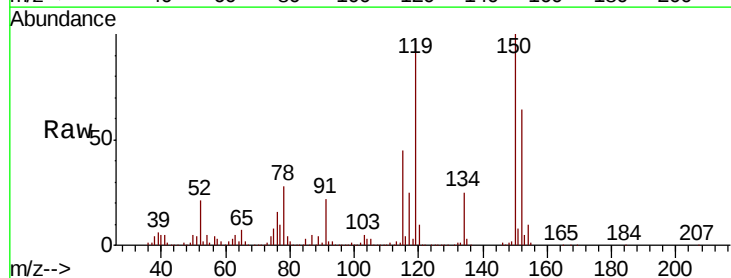
Tgt Ion:119 Resp: 373411

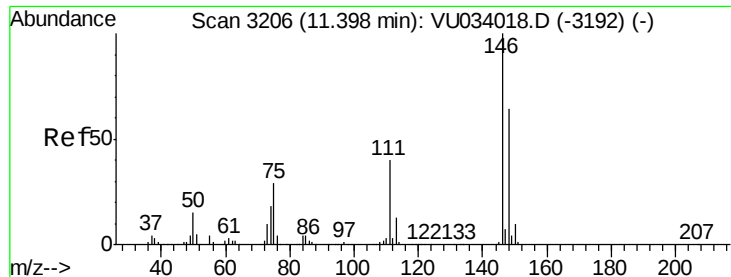
Ion Ratio Lower Upper

119 100

134 25.7 13.1 39.1

91 22.4 11.2 33.6





#87

1,3-Dichlorobenzene

Concen: 19.306 ug/l

RT: 11.40 min Scan# 3206

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

VU0831MBS01

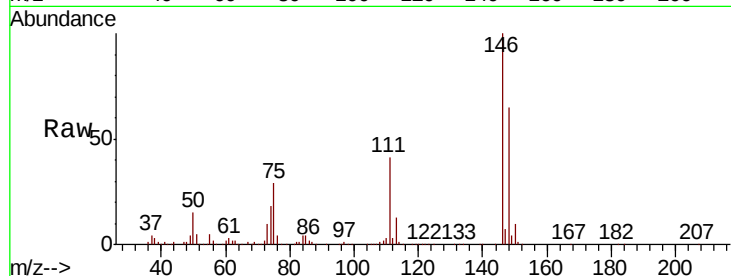
Tgt Ion:146 Resp: 219186

Ion Ratio Lower Upper

146 100

111 39.5 19.9 59.6

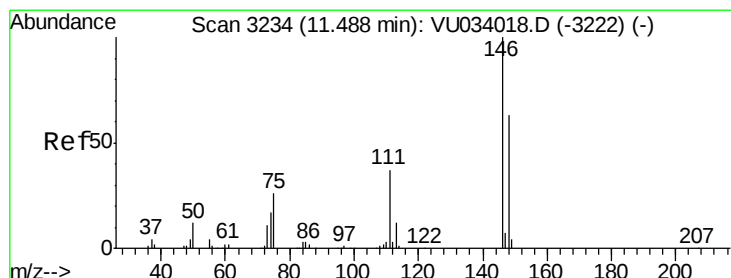
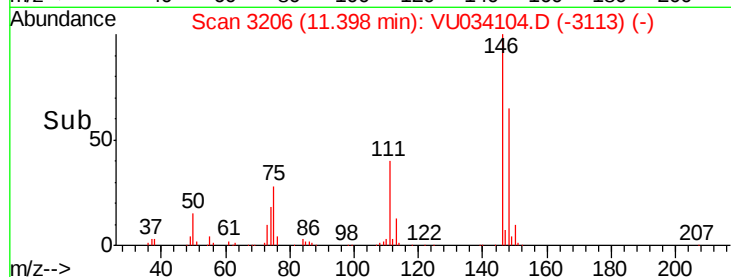
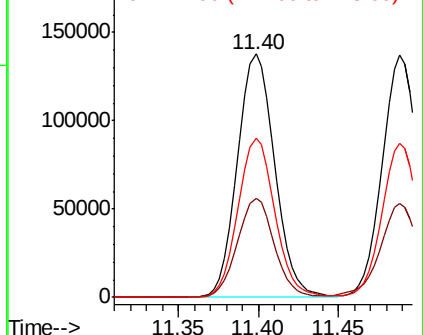
148 64.6 31.9 95.5



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: 19.229 ug/l

RT: 11.49 min Scan# 3234

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

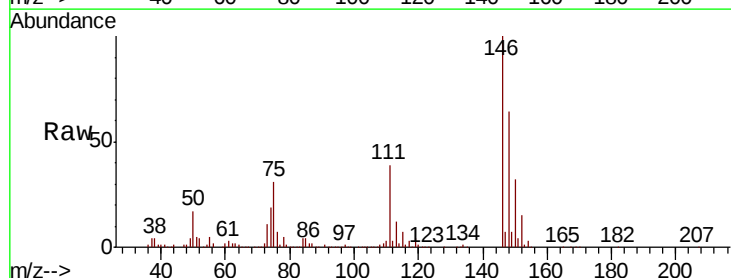
Tgt Ion:146 Resp: 220780

Ion Ratio Lower Upper

146 100

111 39.7 19.2 57.6

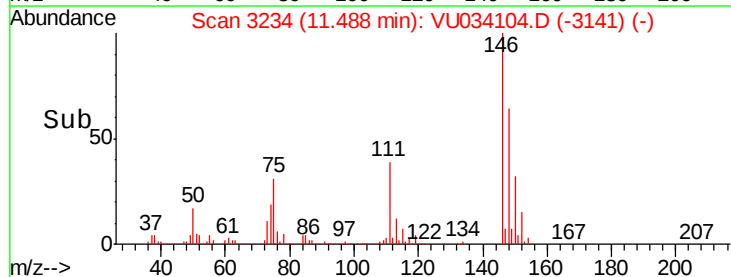
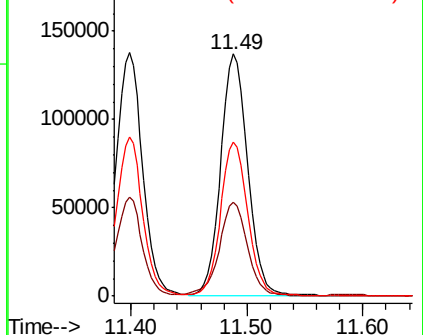
148 63.8 31.9 95.9

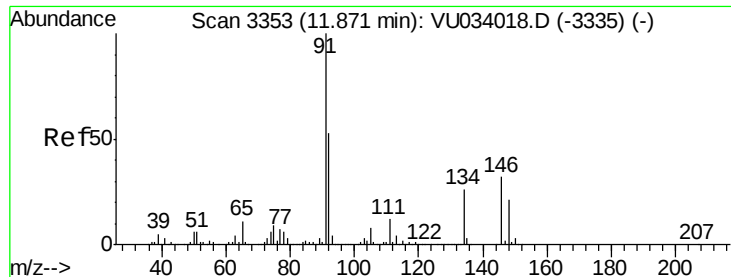


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 16.680 ug/l

RT: 11.87 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

VU0831MBSD01

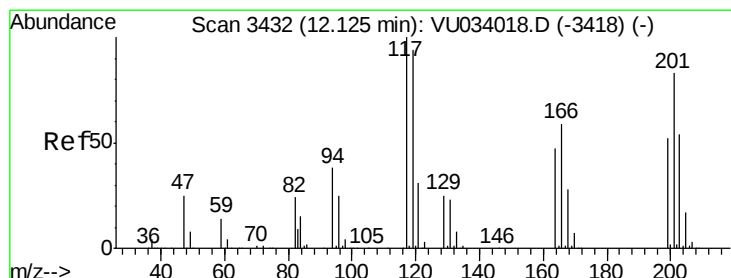
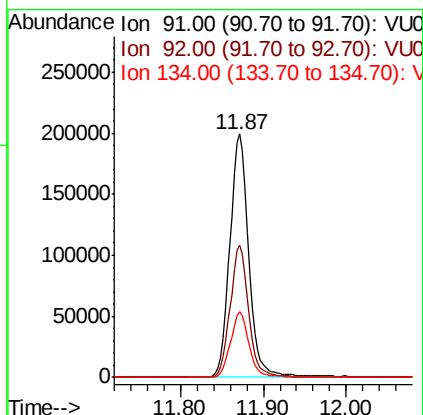
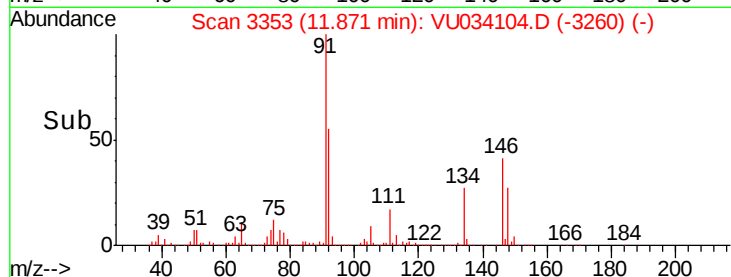
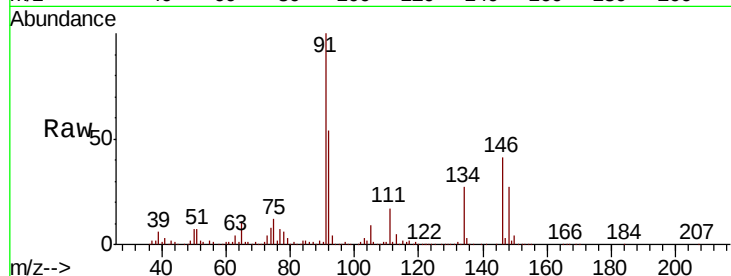
Tgt Ion: 91 Resp: 317079

Ion Ratio Lower Upper

91 100

92 53.1 26.3 78.9

134 26.0 12.9 38.7



#90

Hexachloroethane

Concen: 14.445 ug/l

RT: 12.12 min Scan# 3432

Delta R.T. 0.00 min

Lab File: VU034104.D

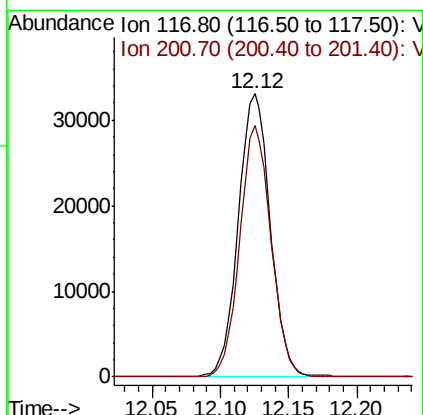
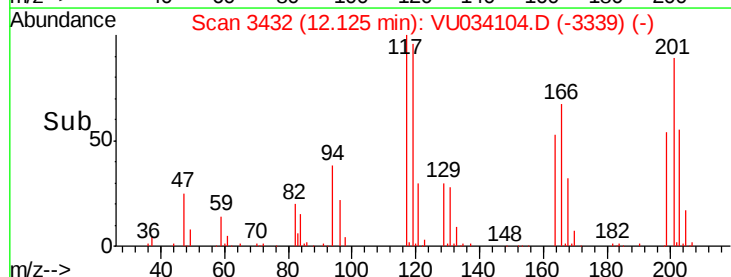
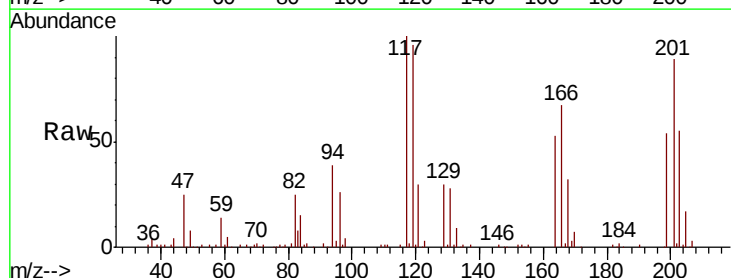
Acq: 30 Aug 2019 17:27

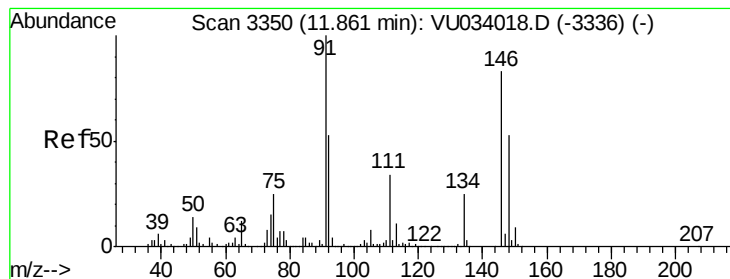
Tgt Ion: 117 Resp: 53848

Ion Ratio Lower Upper

117 100

201 86.6 42.5 127.6





#91

1,2-Dichlorobenzene

Concen: 19.803 ug/l

RT: 11.86 min Scan# 3350

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

VU0831MBSD01

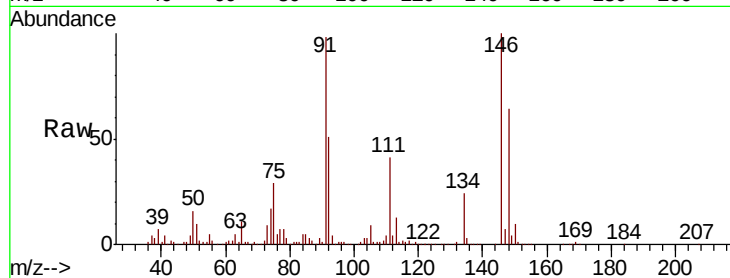
Tgt Ion:146 Resp: 215365

Ion Ratio Lower Upper

146 100

111 41.2 20.4 61.2

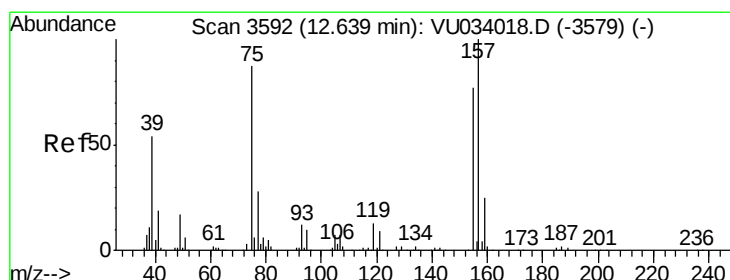
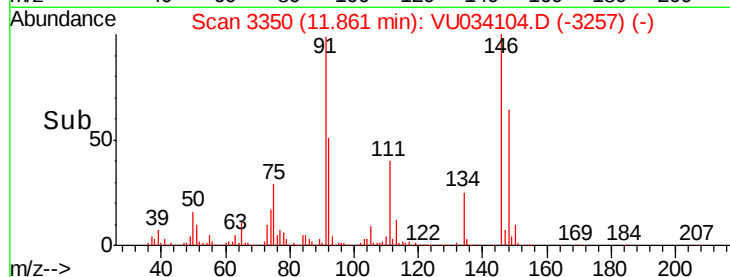
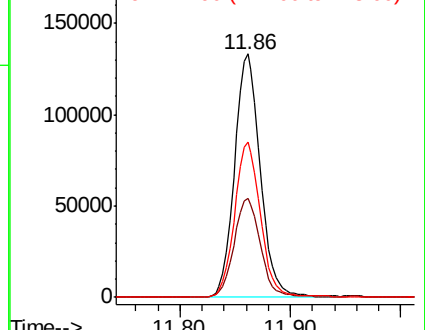
148 64.1 32.3 96.8



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 18.260 ug/l

RT: 12.64 min Scan# 3592

Delta R.T. 0.00 min

Lab File: VU034104.D

Acq: 30 Aug 2019 17:27

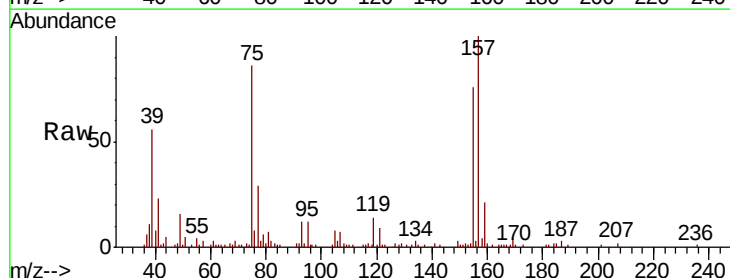
Tgt Ion: 75 Resp: 33193

Ion Ratio Lower Upper

75 100

155 88.5 43.5 130.7

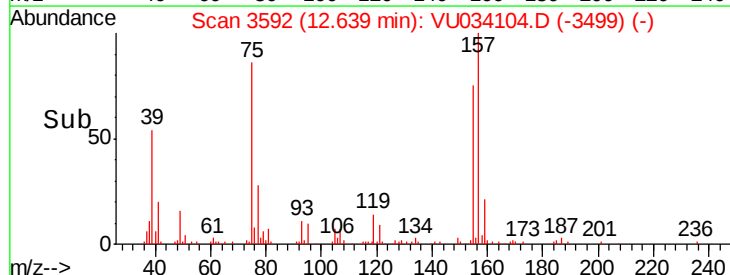
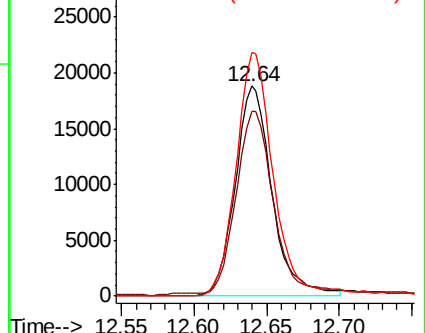
157 115.5 56.9 170.6



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

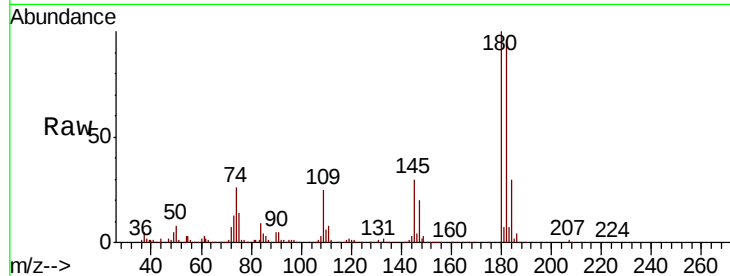




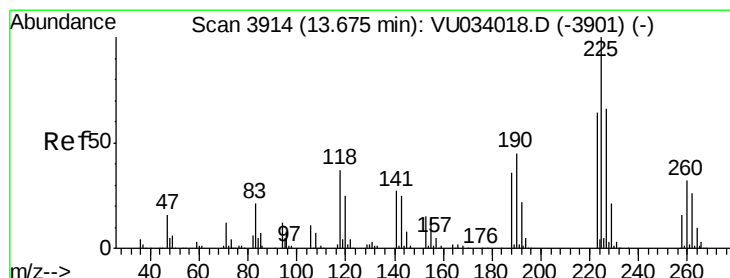
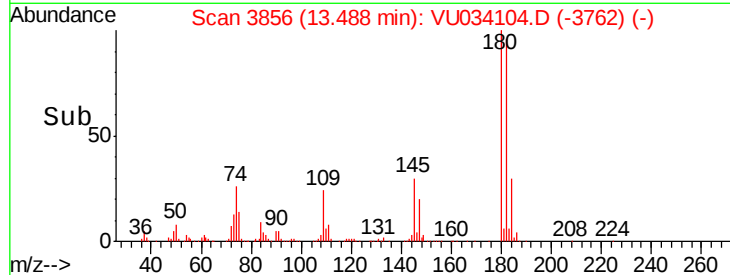
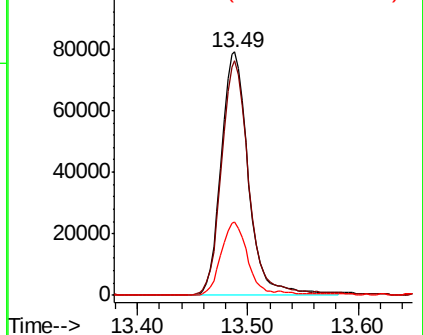
#93
 1,2,4-Trichlorobenzene
 Concen: 18.335 ug/l
 RT: 13.49 min Scan# 3856
 Delta R.T. 0.00 min
 Lab File: VU034104.D
 Acq: 30 Aug 2019 17:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0831MBSD01

Tgt Ion:180 Resp: 136248
 Ion Ratio Lower Upper
 180 100
 182 96.0 47.4 142.2
 145 29.9 14.1 42.3

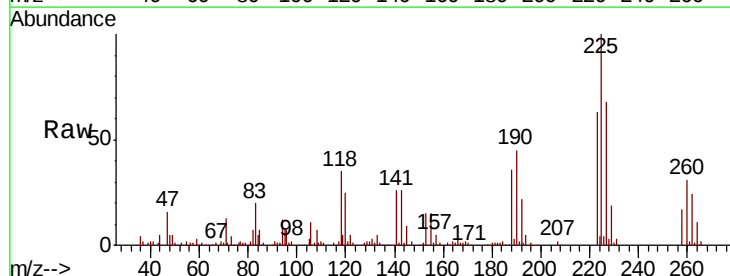


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

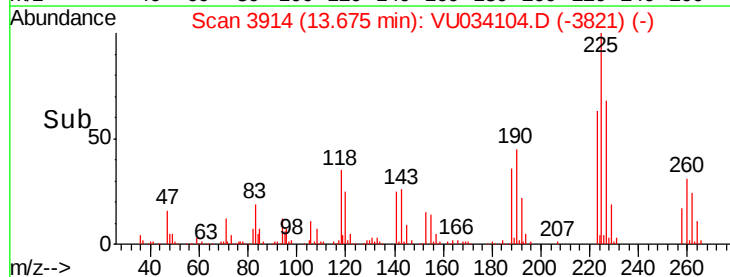
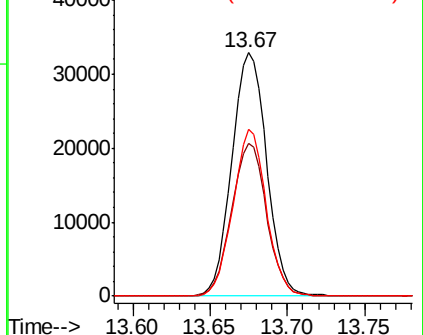


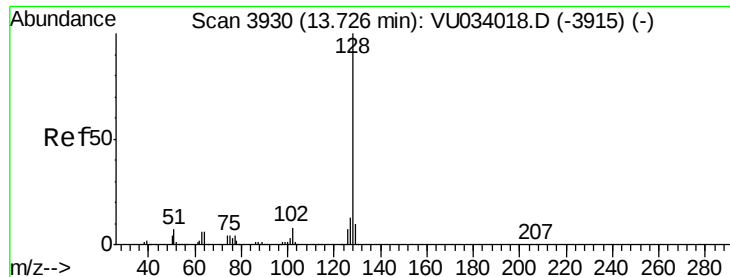
#94
 Hexachlorobutadiene
 Concen: 12.055 ug/l
 RT: 13.67 min Scan# 3914
 Delta R.T. 0.00 min
 Lab File: VU034104.D
 Acq: 30 Aug 2019 17:27

Tgt Ion:225 Resp: 51287
 Ion Ratio Lower Upper
 225 100
 223 62.9 31.8 95.3
 227 65.3 32.6 97.8



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

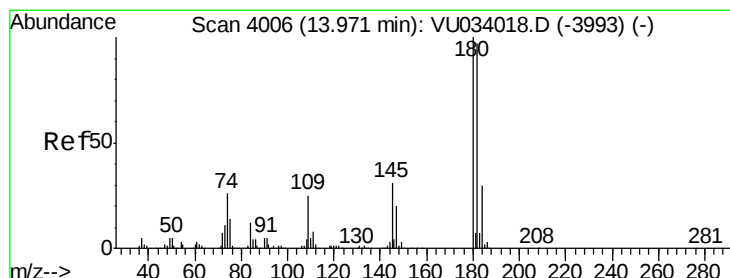
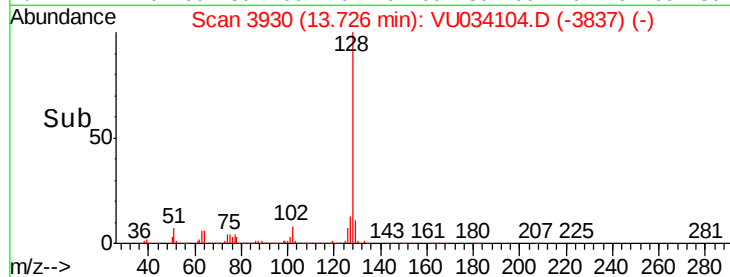
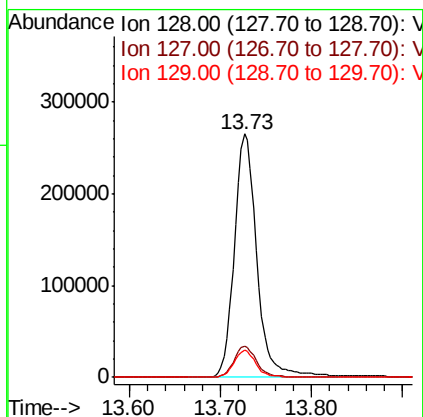
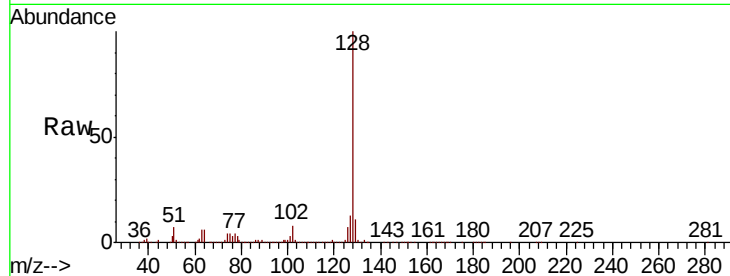




#95
Naphthalene
Concen: 21.613 ug/l
RT: 13.73 min Scan# 3930
Delta R.T. 0.00 min
Lab File: VU034104.D
Acq: 30 Aug 2019 17:27

Instrument :
MSVOA_U
ClientSampleId :
VU0831MBSD01

Tgt Ion:128 Resp: 455456
Ion Ratio Lower Upper
128 100
127 12.9 10.2 15.4
129 10.6 8.4 12.6



#96
1,2,3-Trichlorobenzene
Concen: 19.895 ug/l
RT: 13.97 min Scan# 4006
Delta R.T. 0.00 min
Lab File: VU034104.D
Acq: 30 Aug 2019 17:27

Tgt Ion:180 Resp: 138605
Ion Ratio Lower Upper
180 100
182 95.3 48.2 144.6
145 35.8 15.5 46.5

