

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU042319\
 Data File : VU031456.D
 Acq On : 23 Apr 2019 23:23
 Operator : JC/SP
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Apr 24 08:45:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042319WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Apr 24 08:41:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	762243	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	705959	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	321163	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	273202	44.23	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	88.46%
7) Chloroethane-d5	1.68	69	218823	46.53	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.06%
11) 1,1-Dichloroethene-d2	2.27	63	506641	47.15	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.30%
21) 2-Butanone-d5	4.19	46	504797	109.32	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	109.32%
24) Chloroform-d	4.64	84	474659	48.23	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.46%
26) 1,2-Dichloroethane-d4	5.30	65	286295	48.56	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.12%
32) Benzene-d6	5.34	84	970658	47.60	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.20%
36) 1,2-Dichloropropane-d6	6.32	67	326674	49.78	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.56%
41) Toluene-d8	7.56	98	854818	46.93	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.86%
43) trans-1,3-Dichloropropene-	7.85	79	146528	49.00	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.00%
47) 2-Hexanone-d5	8.31	63	343870	104.58	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	104.58%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	451225	50.68	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	101.36%
64) 1,2-Dichlorobenzene-d4	11.86	152	317455	48.35	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.70%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.20	85	276674	51.211	ug/L	98
3) Chloromethane	1.32	50	353671	51.323	ug/L	100
5) Vinyl chloride	1.40	62	350416	51.610	ug/L	99
6) Bromomethane	1.63	94	186066	46.949	ug/L	99
8) Chloroethane	1.70	64	199687	51.611	ug/L	99
9) Trichlorofluoromethane	1.88	101	413742	50.847	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	239829	50.808	ug/L	98
12) 1,1-Dichloroethene	2.28	96	241450	51.997	ug/L	91
13) Acetone	2.34	43	320592	88.433	ug/L	100
14) Carbon disulfide	2.47	76	695057	49.869	ug/L	99
15) Methyl Acetate	2.62	43	359118	54.227	ug/L	100
16) Methylene chloride	2.70	84	274239	51.840	ug/L	97
17) trans-1,2-Dichloroethene	2.98	96	246678	51.506	ug/L	99
18) Methyl tert-butyl Ether	2.99	73	843678	53.563	ug/L	100
19) 1,1-Dichloroethane	3.44	63	497581	53.147	ug/L	98
20) cis-1,2-Dichloroethene	4.22	96	283515	52.173	ug/L	100
22) 2-Butanone	4.27	43	520520	110.797	ug/L	98

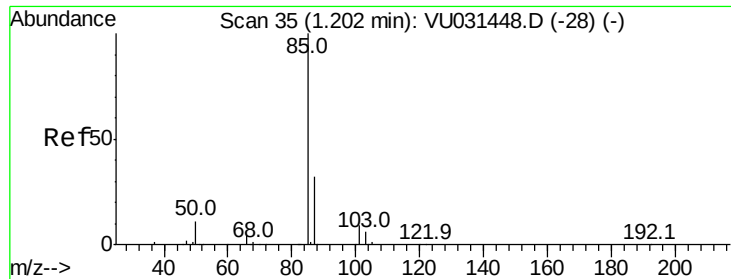
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU042319\
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 Quant Title : VOC Analysis
 QLast Update : Wed Apr 24 08:41:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	134731	49.436	ug/L	93
25) Chloroform	4.67	83	476853	52.846	ug/L	95
27) 1,2-Dichloroethane	5.40	62	352581	52.394	ug/L	99
29) Cyclohexane	4.99	56	456743	53.321	ug/L	98
30) 1,1,1-Trichloroethane	4.91	97	390054	51.826	ug/L	99
31) Carbon tetrachloride	5.13	117	333349	51.733	ug/L	98
33) Benzene	5.39	78	1066449	52.201	ug/L	100
34) Trichloroethene	6.18	95	270240	49.946	ug/L	98
35) Methylcyclohexane	6.41	83	404220	51.055	ug/L	99
37) 1,2-Dichloropropane	6.43	63	293816	53.986	ug/L	99
38) Bromodichloromethane	6.75	83	352344	52.776	ug/L	100
39) cis-1,3-Dichloropropene	7.27	75	421601	51.760	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	914637	110.579	ug/L	99
42) Toluene	7.63	91	1120325	52.845	ug/L	98
44) trans-1,3-Dichloropropene	7.88	75	367879	52.394	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	266134	53.242	ug/L	99
46) Tetrachloroethene	8.22	164	196226	51.135	ug/L	98
48) 2-Hexanone	8.36	43	726863	112.653	ug/L	100
49) Dibromochloromethane	8.47	129	280576	52.905	ug/L	96
50) 1,2-Dibromoethane	8.58	107	286262	54.449	ug/L	97
51) Chlorobenzene	9.12	112	674124	51.237	ug/L	96
52) Ethylbenzene	9.25	91	1196319	52.673	ug/L	100
53) m,p-Xylene	9.37	106	438628	52.914	ug/L	98
54) o-xylene	9.77	106	439271	52.708	ug/L	99
55) Styrene	9.79	104	756577	54.585	ug/L	96
56) Isopropylbenzene	10.16	105	1157033	54.040	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.45	83	452790	52.465	ug/L	97
59) 1,2,3-Trichloropropane	10.49	75	356839	53.125	ug/L	98
61) Bromoform	9.95	173	207229	52.481	ug/L	98
62) 1,3-Dichlorobenzene	11.41	146	491479	52.258	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	486999	51.908	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	507480	52.784	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	103542	58.236	ug/L	96
67) 1,3,5-Trichlorobenzene	12.88	180	359764	51.905	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	321514	57.701	ug/L	97
69) Naphthalene	13.74	128	1177797	60.802	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	343844	57.311	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 51.211 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU031456.D

Acq: 23 Apr 2019 23:23

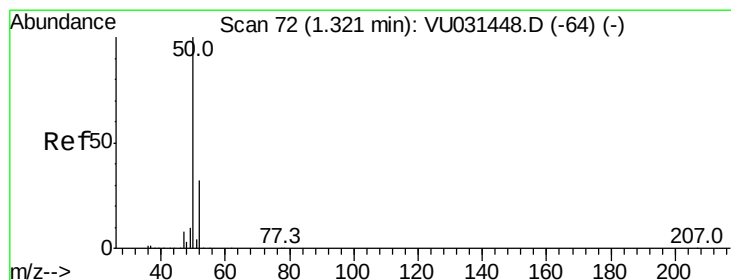
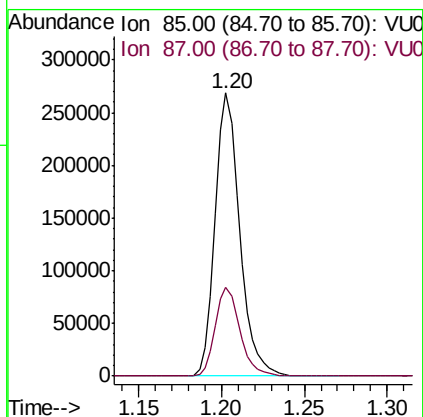
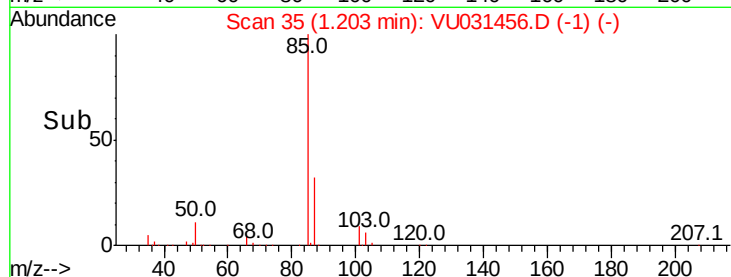
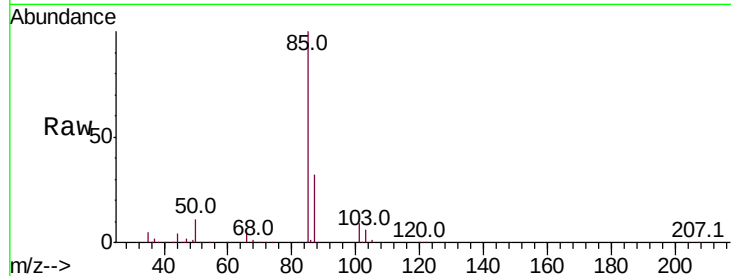
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 85 Resp: 276674

Ion Ratio Lower Upper

85 100

87 31.6 26.3 39.5



#3

Chloromethane

Concen: 51.323 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU031456.D

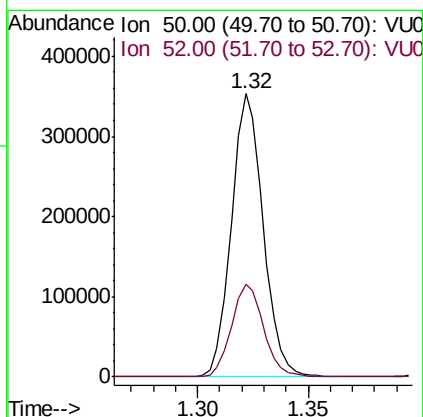
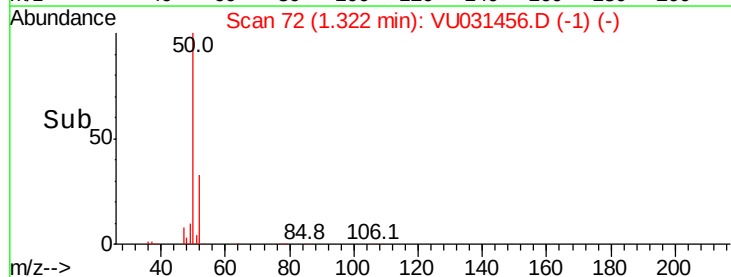
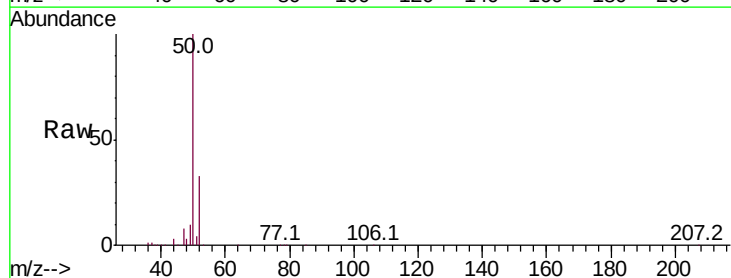
Acq: 23 Apr 2019 23:23

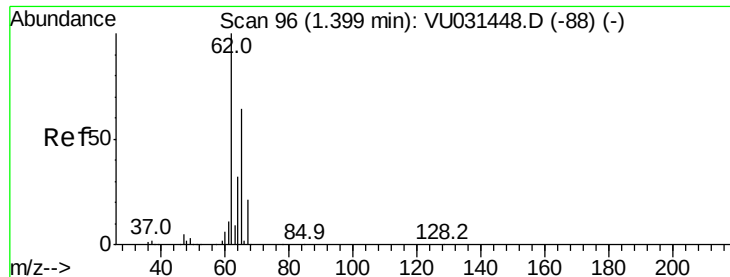
Tgt Ion: 50 Resp: 353671

Ion Ratio Lower Upper

50 100

52 32.9 22.9 42.5





#5

Vinyl chloride

Concen: 51.610 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU031456.D

Acq: 23 Apr 2019 23:23

Instrument :

MSVOA_U

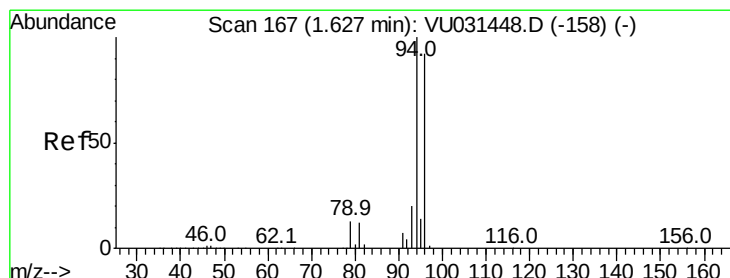
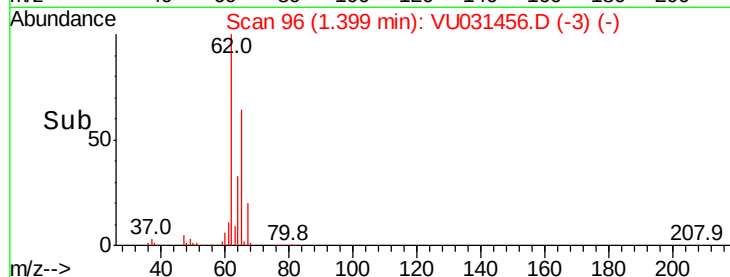
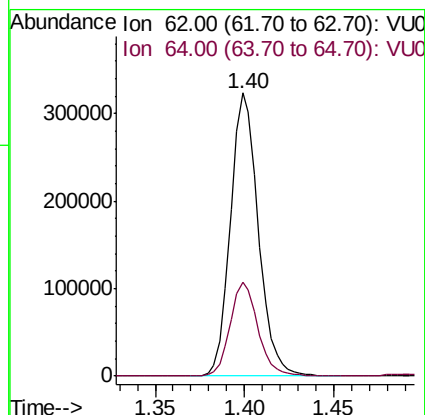
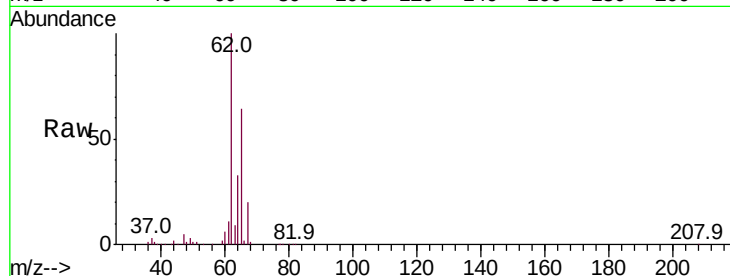
ClientSampleId :

Tot Ion: 62 Resp: 350416

Ion Ratio Lower Upper

62 100

64 33.3 22.7 42.3



#6

Bromomethane

Concen: 46.949 ug/L

RT: 1.63 min Scan# 167

Delta R.T. 0.00 min

Lab File: VU031456.D

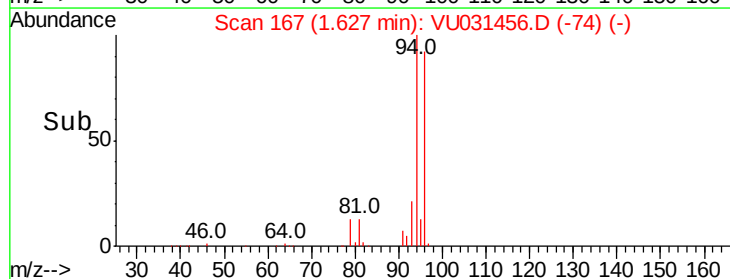
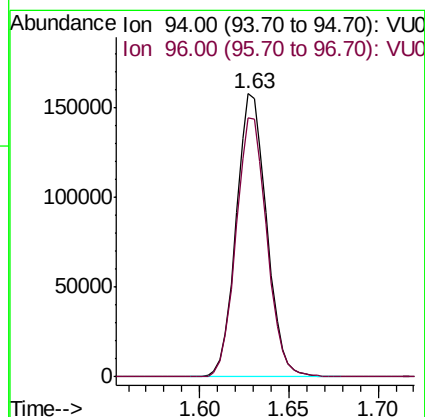
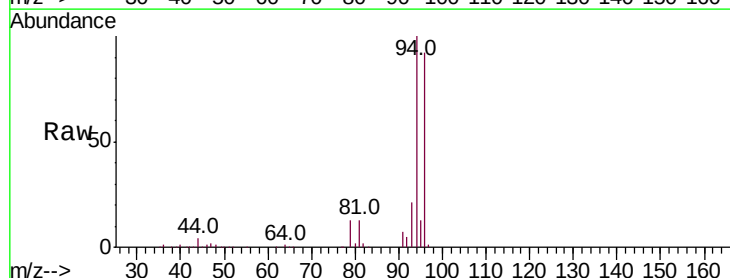
Acq: 23 Apr 2019 23:23

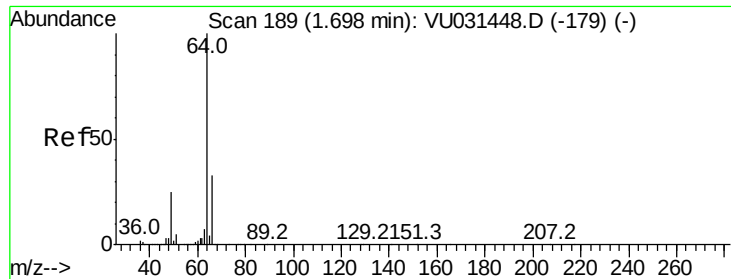
Tgt Ion: 94 Resp: 186066

Ion Ratio Lower Upper

94 100

96 91.6 65.1 120.9

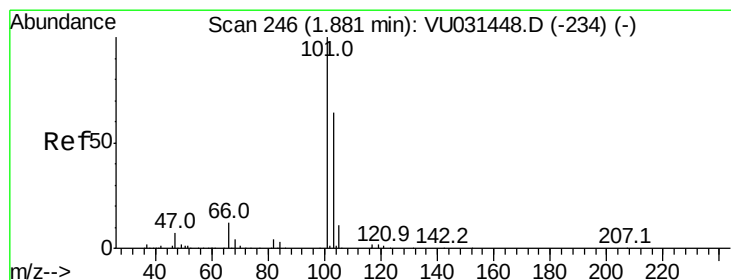
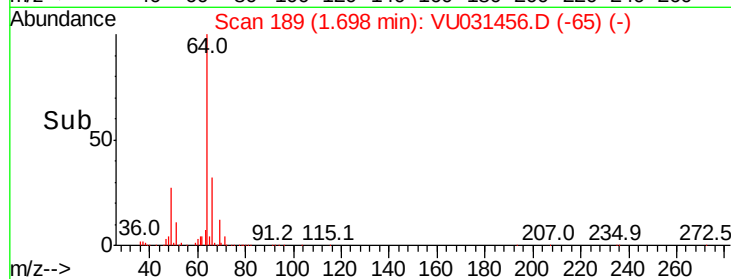
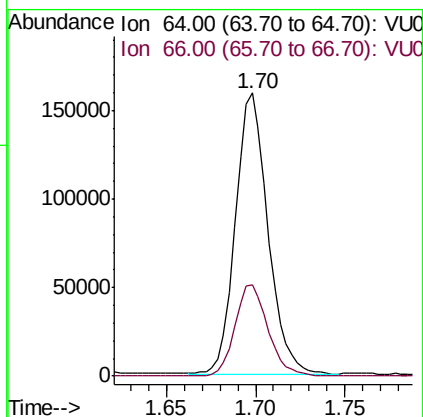
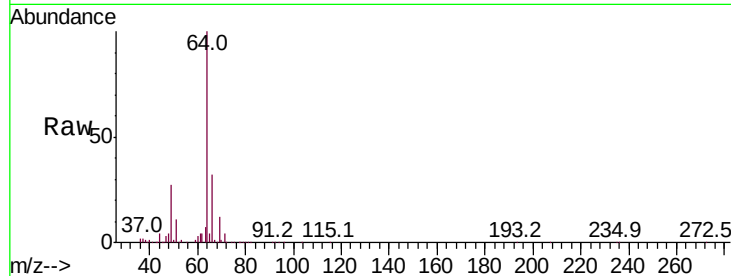




#8
Chloroethane
Concen: 51.611 ug/L
RT: 1.70 min Scan# 189
Delta R.T. 0.00 min
Lab File: VU031456.D
Acq: 23 Apr 2019 23:23

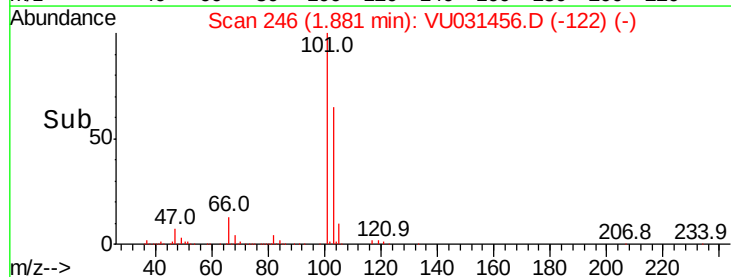
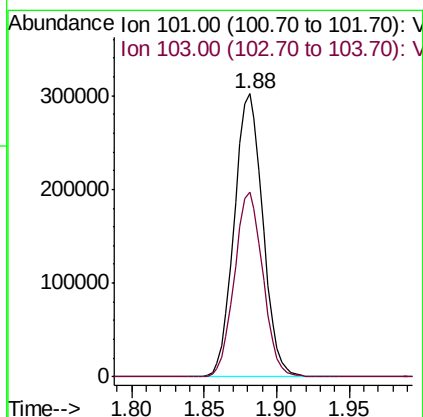
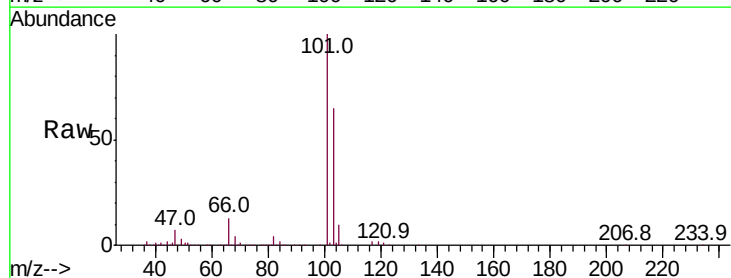
Instrument :
MSVOA_U
ClientSampleId :

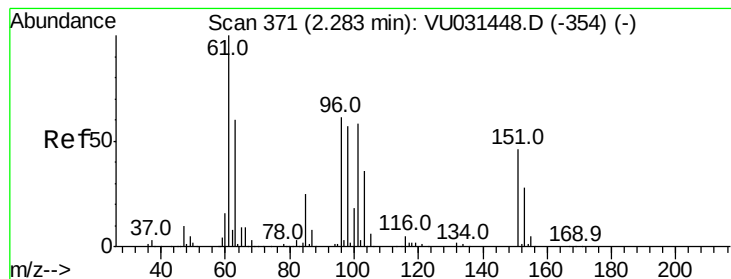
Tot Ion: 64 Resp: 199687
Ion Ratio Lower Upper
64 100
66 32.4 22.1 41.1



#9
Trichlorofluoromethane
Concen: 50.847 ug/L
RT: 1.88 min Scan# 246
Delta R.T. 0.00 min
Lab File: VU031456.D
Acq: 23 Apr 2019 23:23

Tgt Ion:101 Resp: 413742
Ion Ratio Lower Upper
101 100
103 64.8 51.4 77.2





#10

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

Concen: 50.808 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU031456.D

Acq: 23 Apr 2019 23:23

Instrument :

MSVOA_U

ClientSampled :

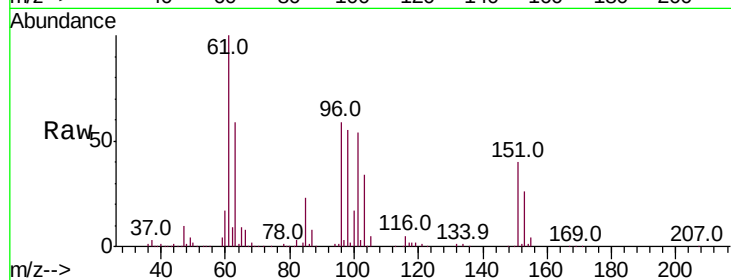
Tot Ion:101 Resp: 239829

Ion Ratio Lower Upper

101 100

85 41.9 33.1 49.7

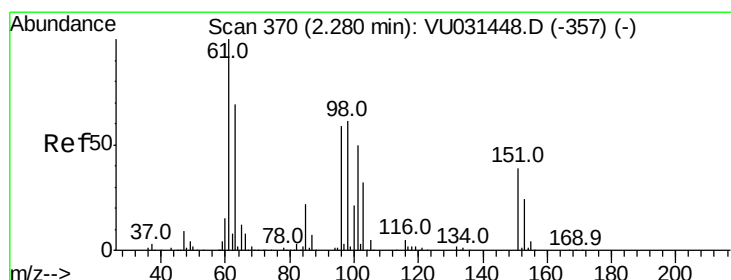
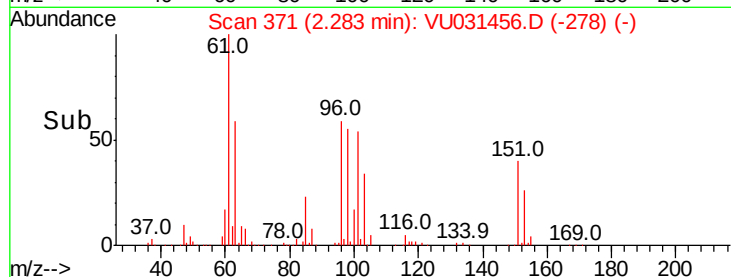
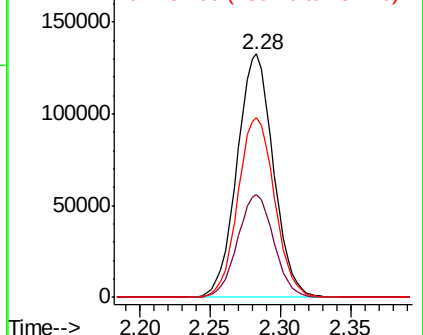
151 74.5 61.4 92.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 51.997 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU031456.D

Acq: 23 Apr 2019 23:23

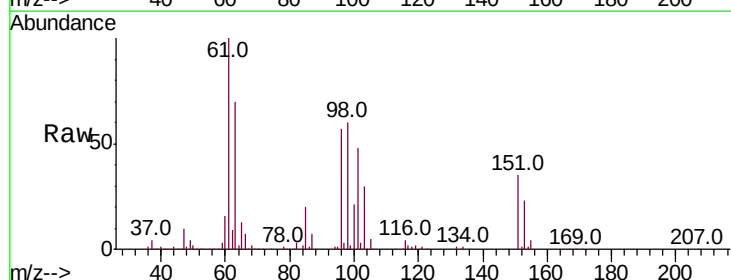
Tgt Ion: 96 Resp: 241450

Ion Ratio Lower Upper

96 100

61 175.3 118.9 220.9

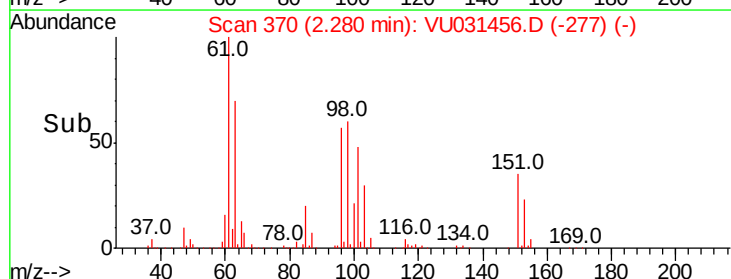
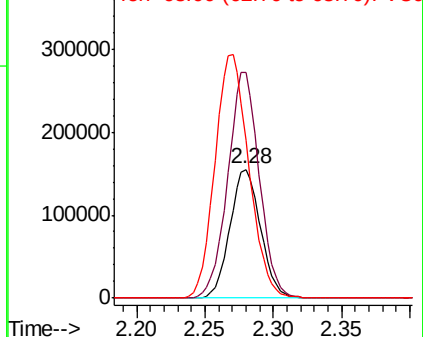
63 122.9 99.3 184.3

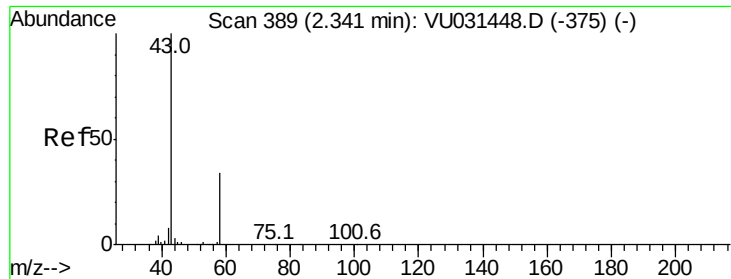


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 88.433 ug/L

RT: 2.34 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU031456.D

Acq: 23 Apr 2019 23:23

Instrument :

MSVOA_U

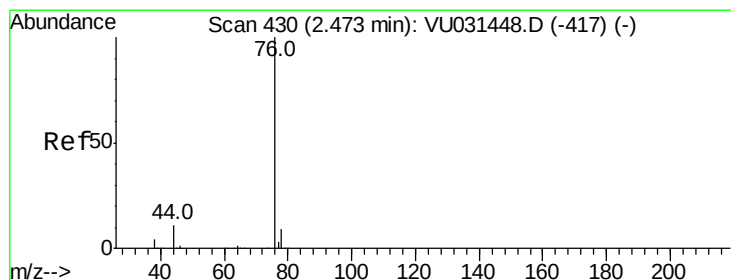
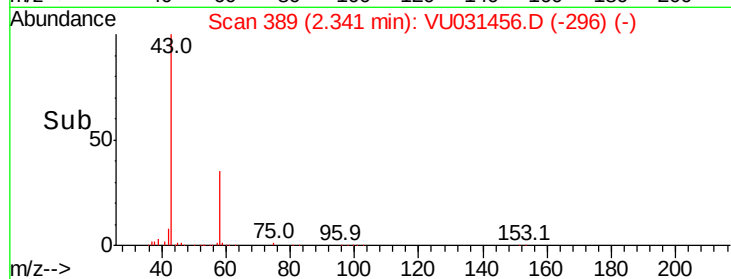
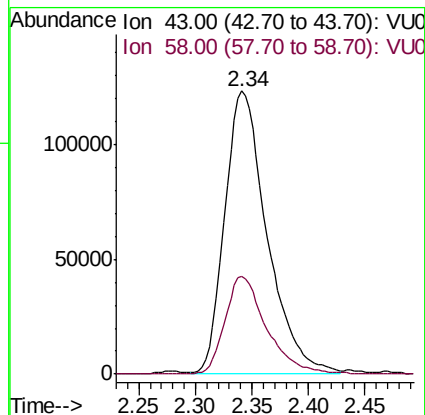
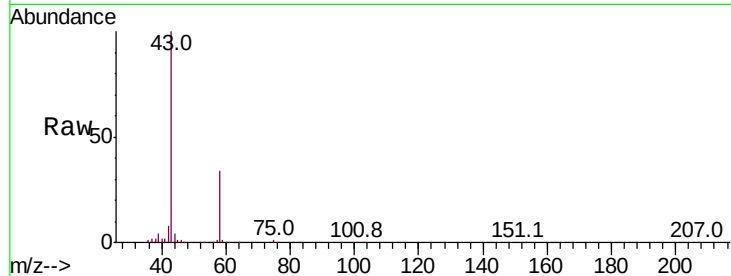
ClientSampleId :

Tot Ion: 43 Resp: 320592

Ion Ratio Lower Upper

43 100

58 33.2 0.0 66.4



#14

Carbon disulfide

Concen: 49.869 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU031456.D

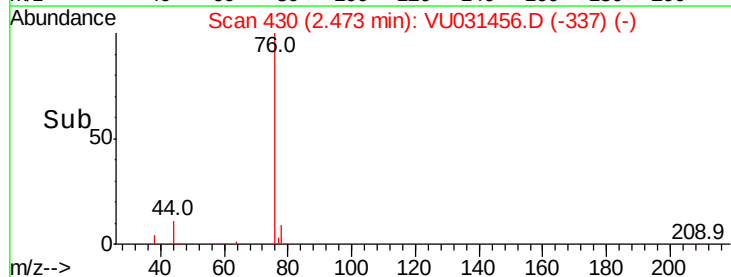
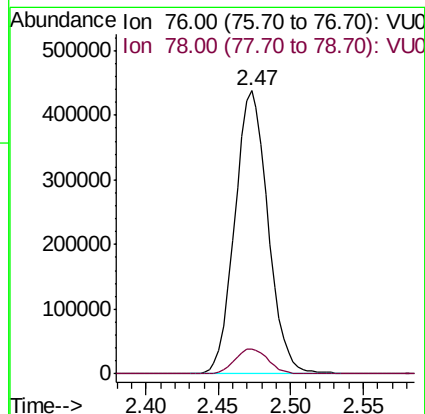
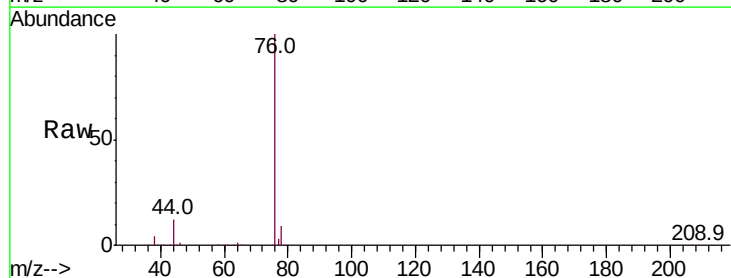
Acq: 23 Apr 2019 23:23

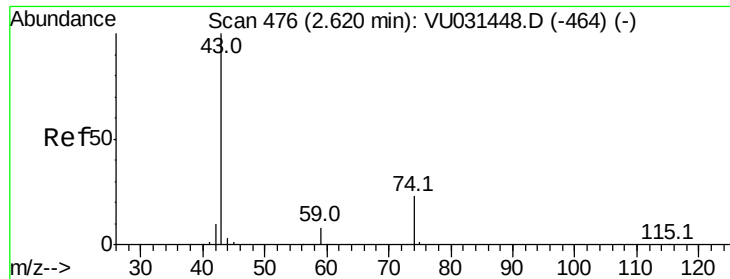
Tgt Ion: 76 Resp: 695057

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.2

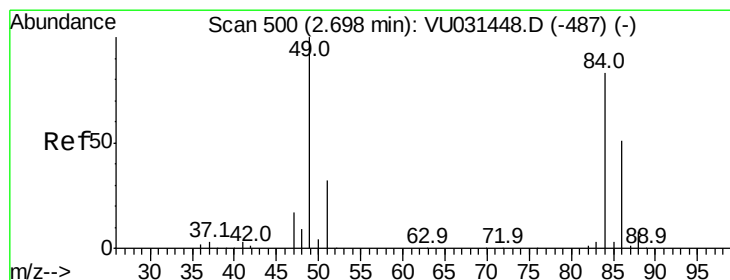
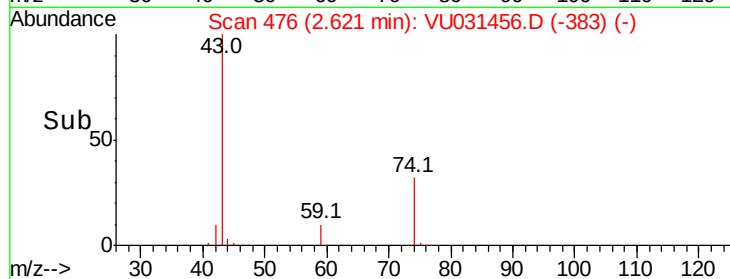
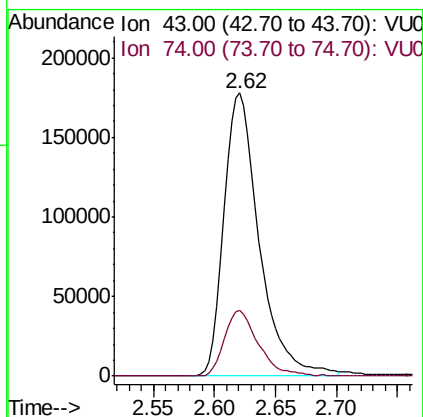
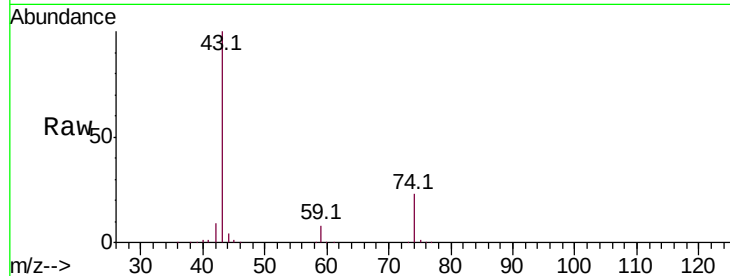




#15
Methyl Acetate
Concen: 54.227 ug/L
RT: 2.62 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU031456.D
Acq: 23 Apr 2019 23:23

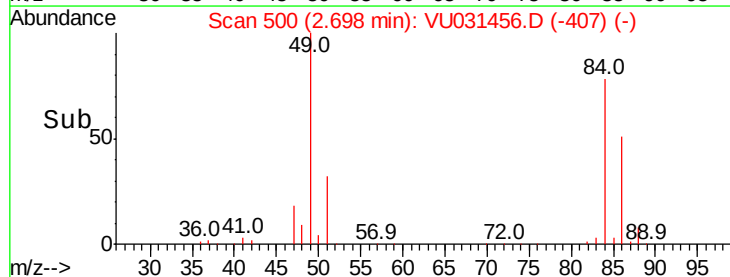
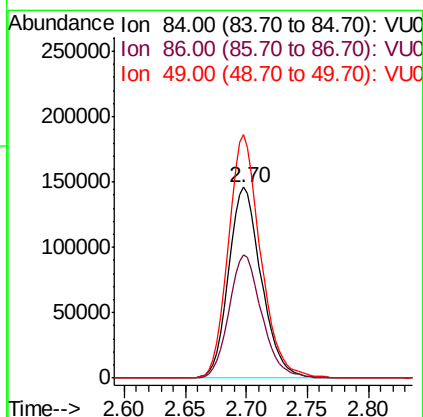
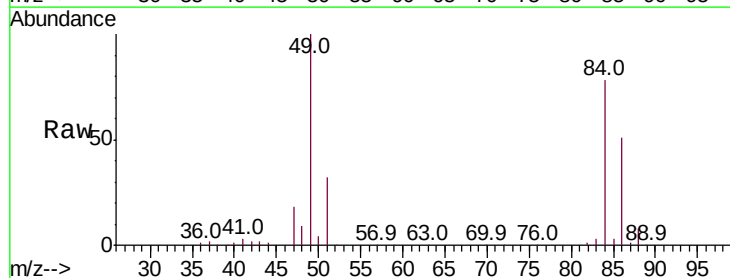
Instrument :
MSVOA_U
ClientSampleId :

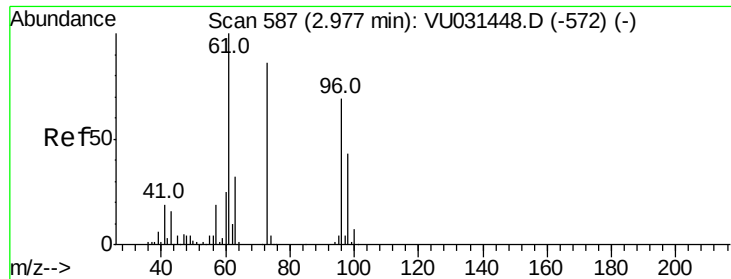
Tot Ion: 43 Resp: 359118
Ion Ratio Lower Upper
43 100
74 22.6 18.1 27.1



#16
Methylene chloride
Concen: 51.840 ug/L
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU031456.D
Acq: 23 Apr 2019 23:23

Tgt Ion: 84 Resp: 274239
Ion Ratio Lower Upper
84 100
86 64.5 44.4 82.5
49 127.7 86.7 161.1





#17

trans-1,2-Dichloroethene

Concen: 51.506 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU031456.D

Acq: 23 Apr 2019 23:23

Instrument :

MSVOA_U

ClientSampleId :

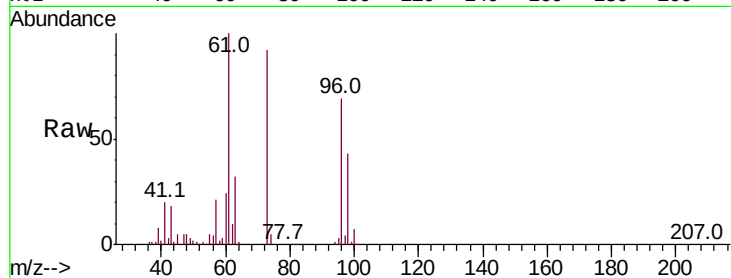
Tot Ion: 96 Resp: 246678

Ion Ratio Lower Upper

96 100

61 144.7 100.3 186.3

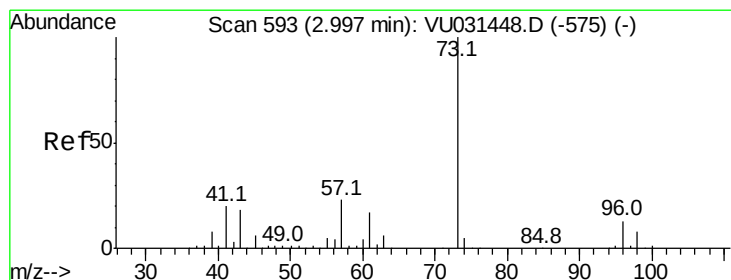
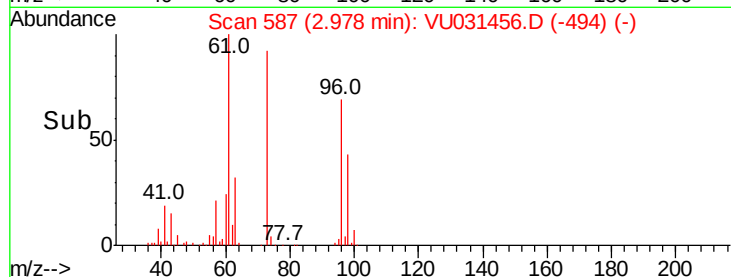
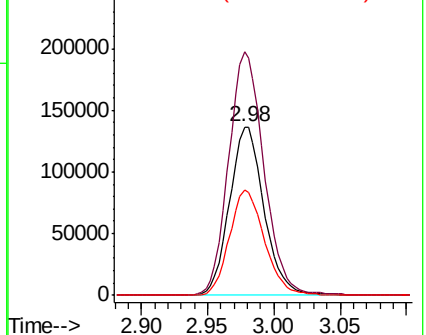
98 62.4 44.0 81.6



Abundance Ion 96.00 (95.70 to 96.70): VU031448.D (-572) (-)

Ion 61.00 (60.70 to 61.70): VU031448.D (-572) (-)

Ion 98.00 (97.70 to 98.70): VU031448.D (-572) (-)



#18

Methyl tert-butyl Ether

Concen: 53.563 ug/L

RT: 2.99 min Scan# 592

Delta R.T. -0.00 min

Lab File: VU031456.D

Acq: 23 Apr 2019 23:23

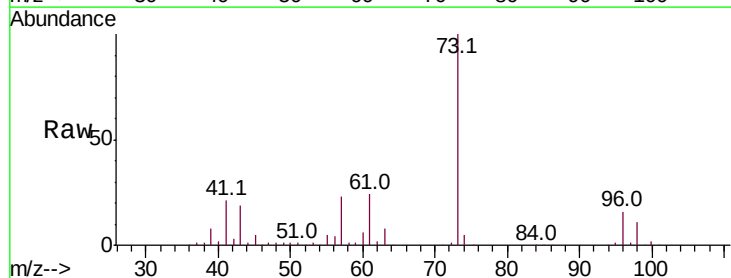
Tgt Ion: 73 Resp: 843678

Ion Ratio Lower Upper

73 100

43 18.5 14.6 21.8

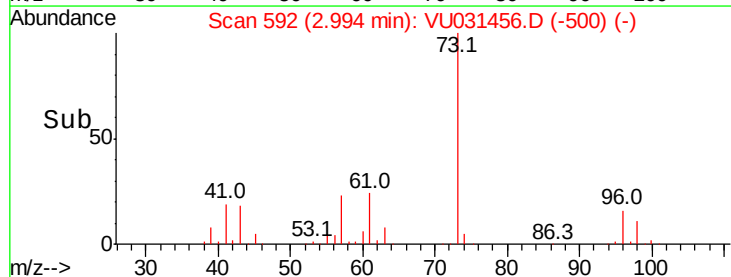
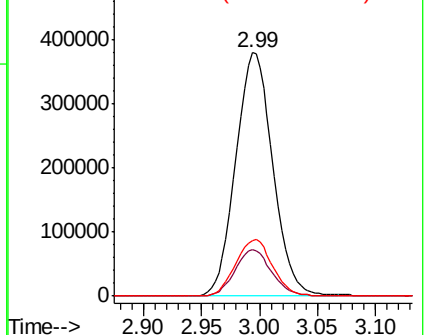
57 23.1 18.5 27.7

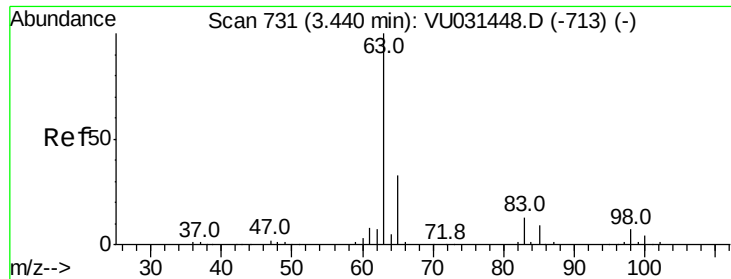


Abundance Ion 73.00 (72.70 to 73.70): VU031448.D (-575) (-)

Ion 43.00 (42.70 to 43.70): VU031448.D (-575) (-)

Ion 57.00 (56.70 to 57.70): VU031448.D (-575) (-)

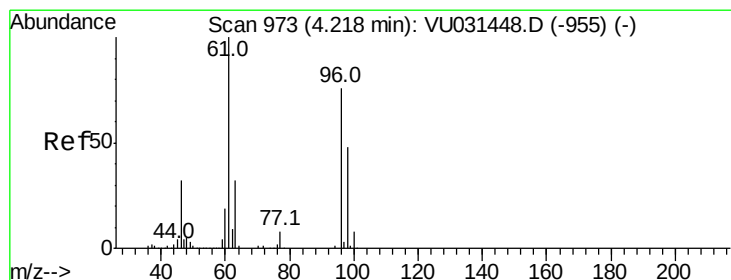
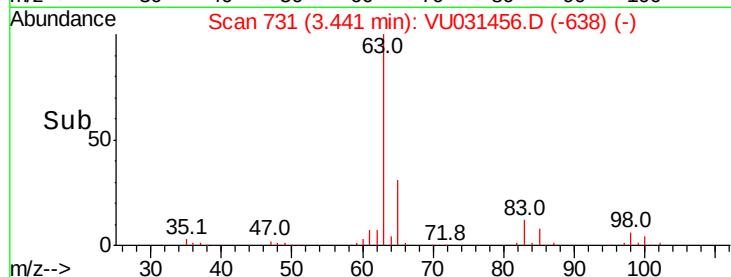
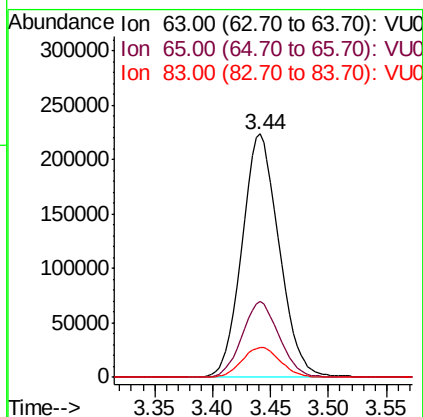
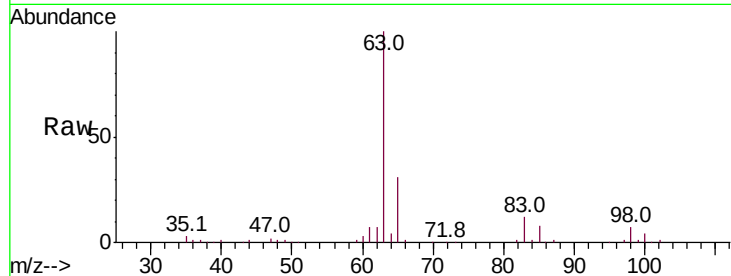




#19
 1,1-Dichloroethane
 Concen: 53.147 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VU031456.D
 Acq: 23 Apr 2019 23:23

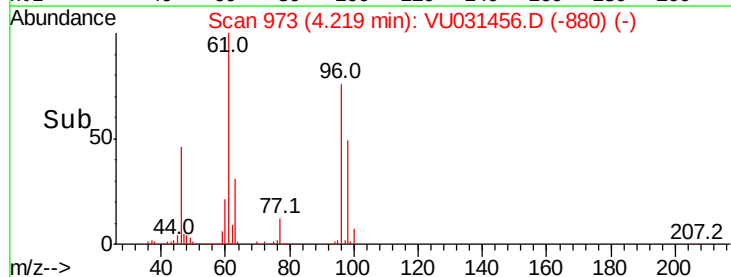
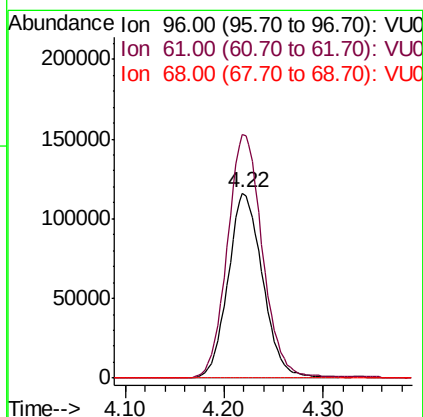
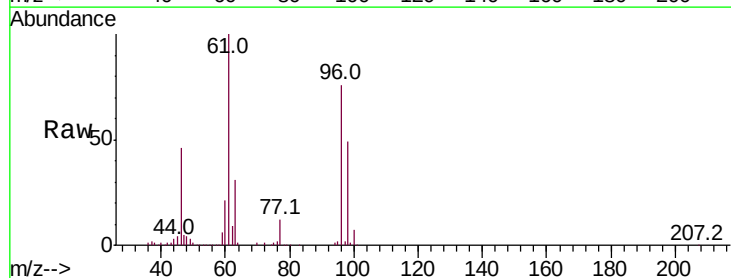
Instrument :
 MSVOA_U
 ClientSampleId :

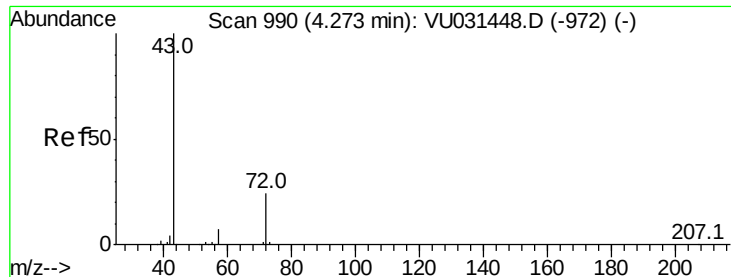
Tot Ion: 63 Resp: 497581
 Ion Ratio Lower Upper
 63 100
 65 31.2 21.2 39.4
 83 12.4 9.2 17.2



#20
 cis-1,2-Dichloroethene
 Concen: 52.173 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. 0.00 min
 Lab File: VU031456.D
 Acq: 23 Apr 2019 23:23

Tgt Ion: 96 Resp: 283515
 Ion Ratio Lower Upper
 96 100
 61 131.5 91.9 170.7
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 110.797 ug/L

RT: 4.27 min Scan# 990

Delta R.T. 0.00 min

Lab File: VU031456.D

Acq: 23 Apr 2019 23:23

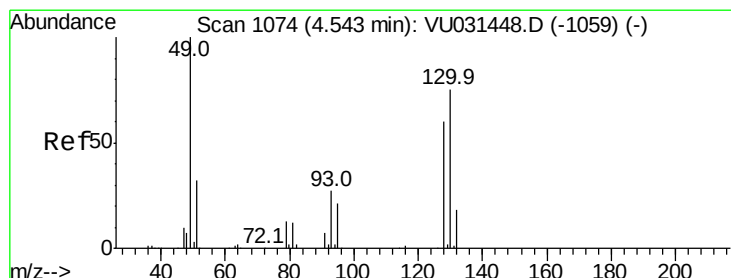
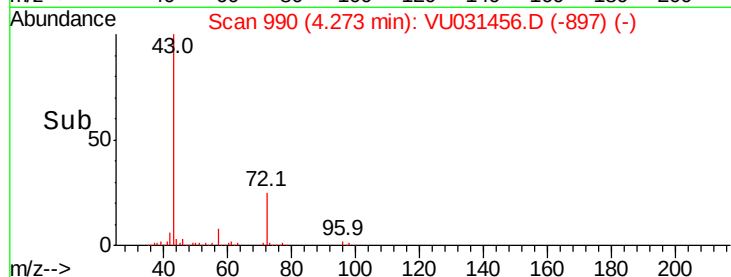
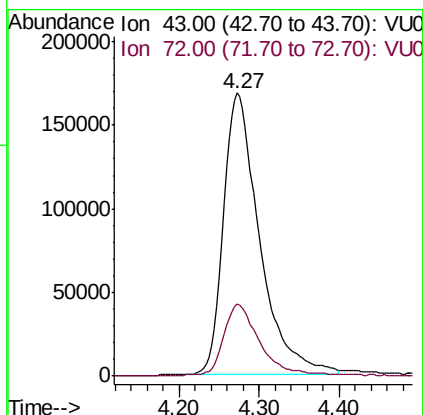
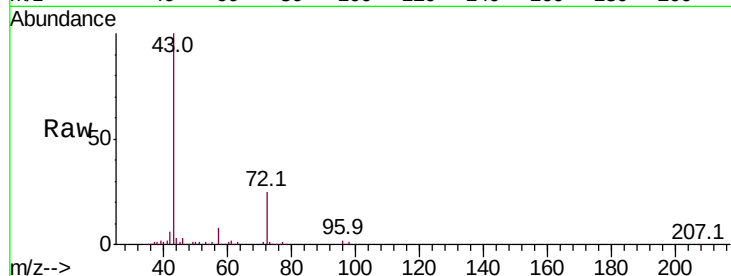
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 520520

Ion Ratio Lower Upper

43 100

72 24.2 12.6 37.8



#23

Bromochloromethane

Concen: 49.436 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VU031456.D

Acq: 23 Apr 2019 23:23

Tgt Ion: 128 Resp: 134731

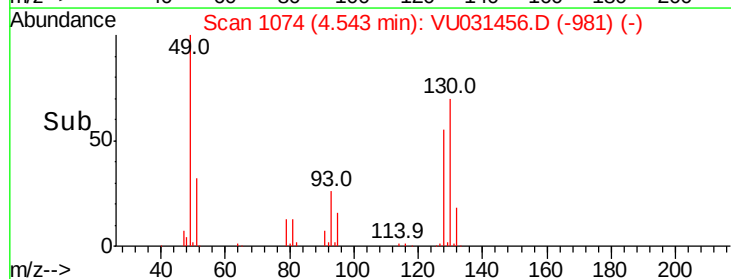
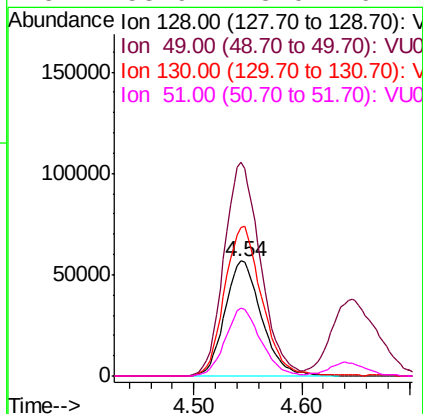
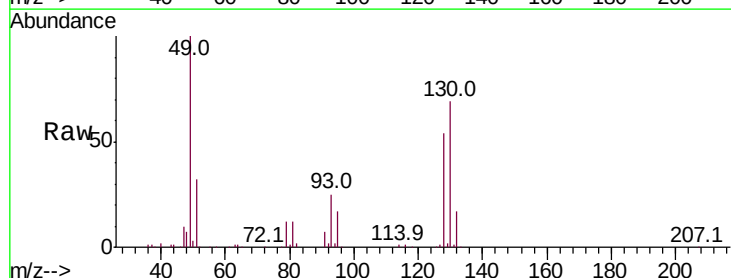
Ion Ratio Lower Upper

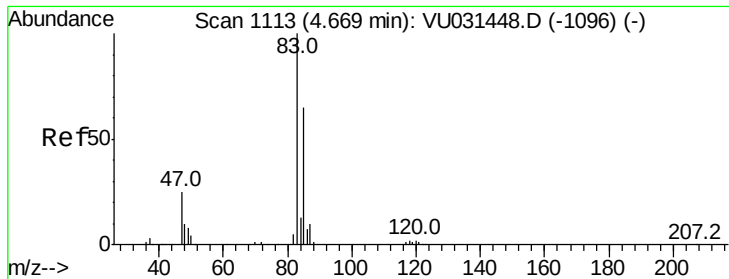
128 100

49 186.1 120.1 223.1

130 129.0 88.5 164.3

51 58.9 43.0 64.4

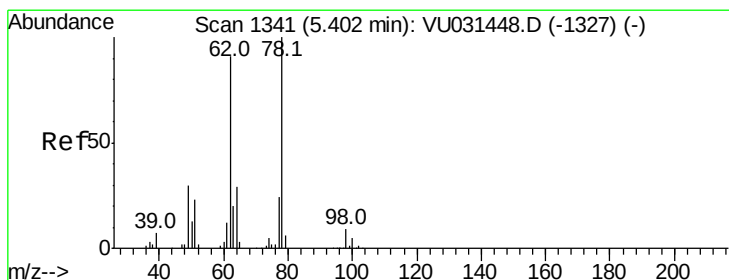
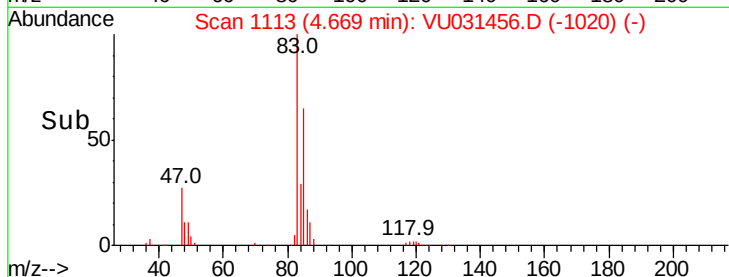
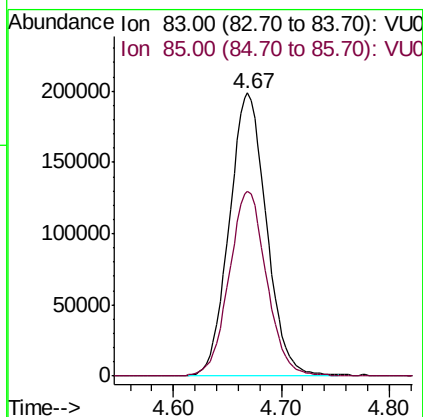
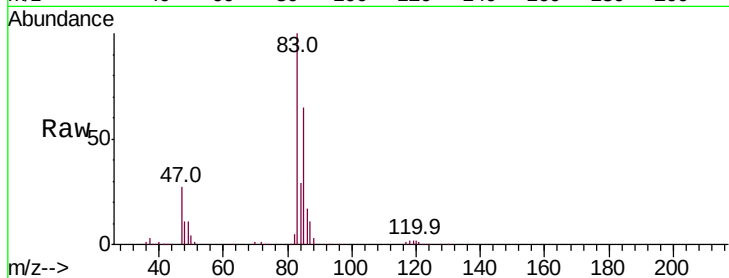




#25
Chloroform
Concen: 52.846 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VU031456.D
Acq: 23 Apr 2019 23:23

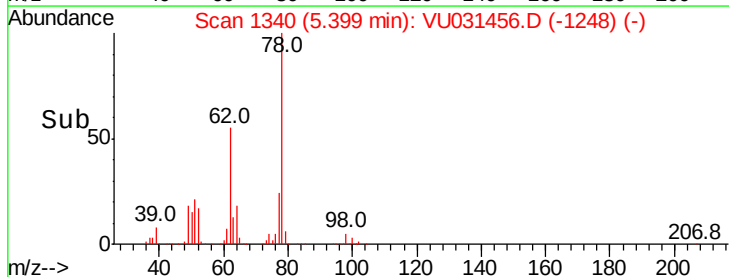
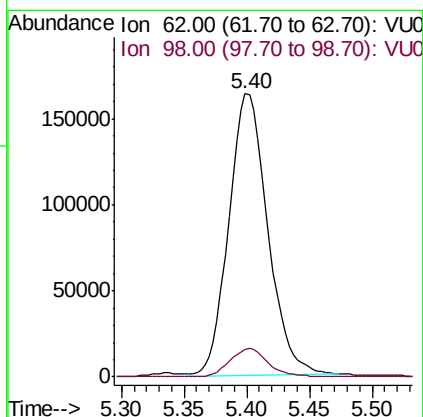
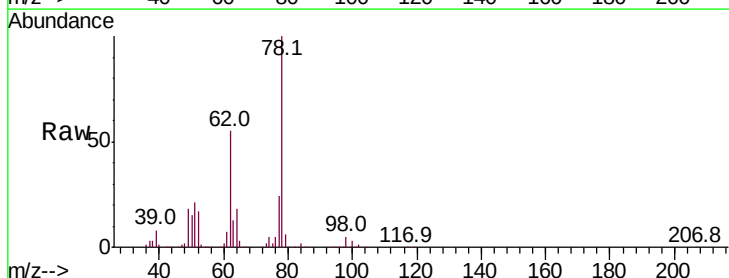
Instrument :
MSVOA_U
ClientSampleId :

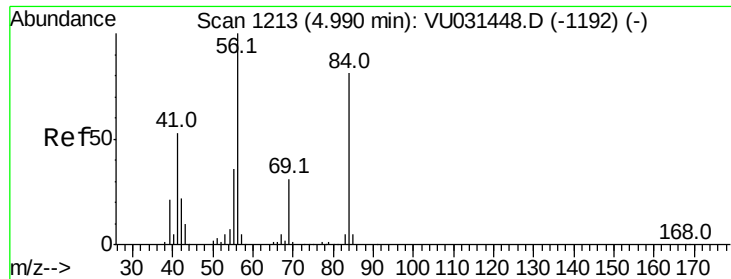
Tot Ion: 83 Resp: 476853
Ion Ratio Lower Upper
83 100
85 65.4 43.0 79.8



#27
1,2-Dichloroethane
Concen: 52.394 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VU031456.D
Acq: 23 Apr 2019 23:23

Tgt Ion: 62 Resp: 352581
Ion Ratio Lower Upper
62 100
98 9.6 7.3 10.9

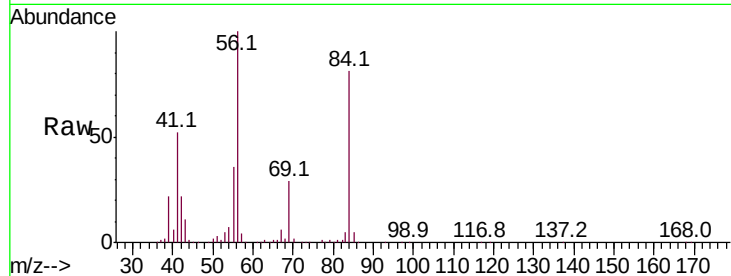




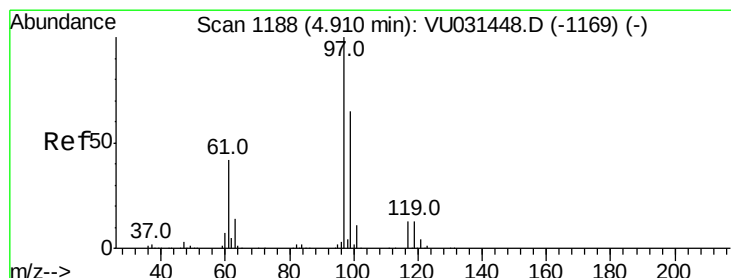
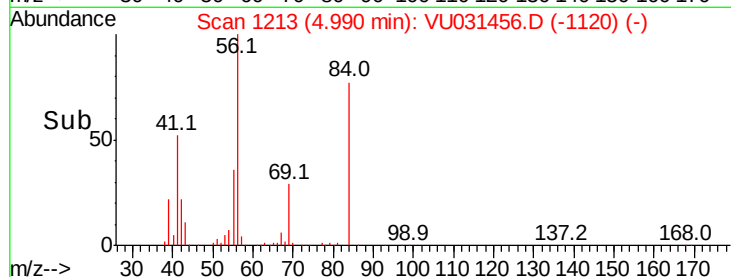
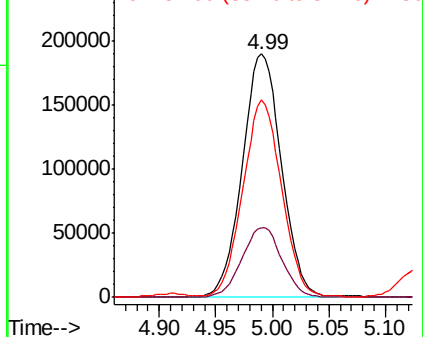
#29
Cyclohexane
Concen: 53.321 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. 0.00 min
Lab File: VU031456.D
Acq: 23 Apr 2019 23:23

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 456743
Ion Ratio Lower Upper
56 100
69 29.3 23.3 34.9
84 78.9 64.6 96.8

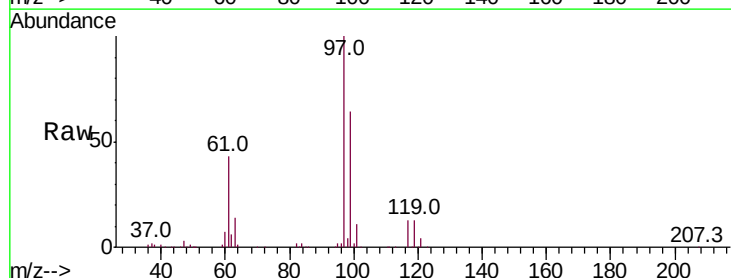


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

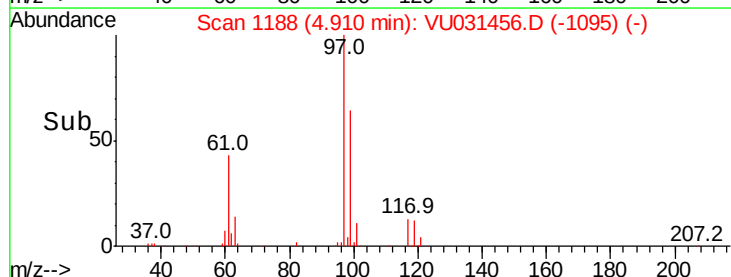
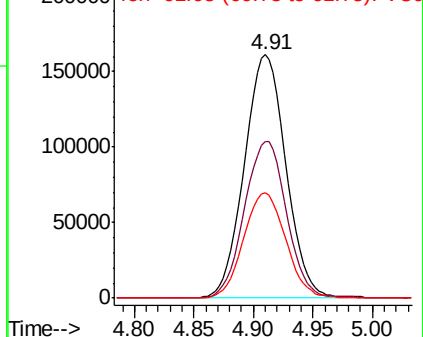


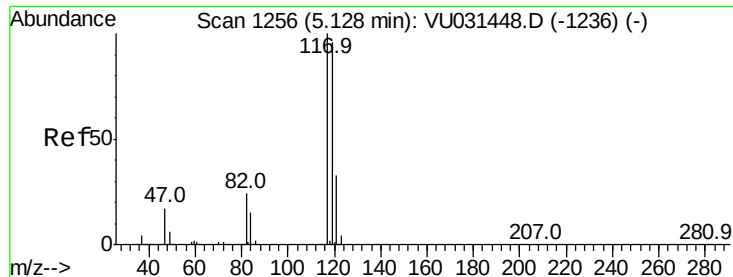
#30
1,1,1-Trichloroethane
Concen: 51.826 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU031456.D
Acq: 23 Apr 2019 23:23

Tgt Ion: 97 Resp: 390054
Ion Ratio Lower Upper
97 100
99 64.9 52.0 78.0
61 43.7 33.9 50.9



Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 61.05 (60.75 to 61.75): VU0





#31

Carbon tetrachloride

Concen: 51.733 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VU031456.D

Acq: 23 Apr 2019 23:23

Instrument :

MSVOA_U

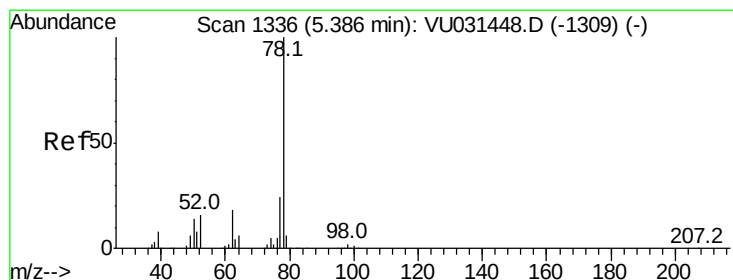
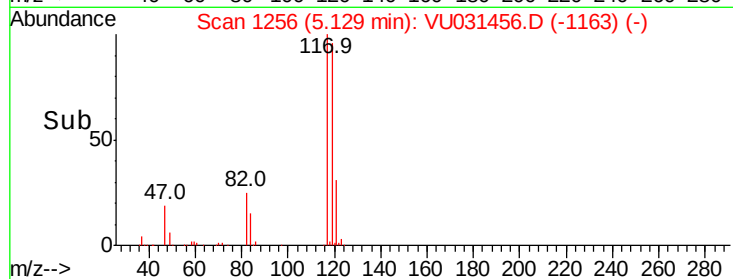
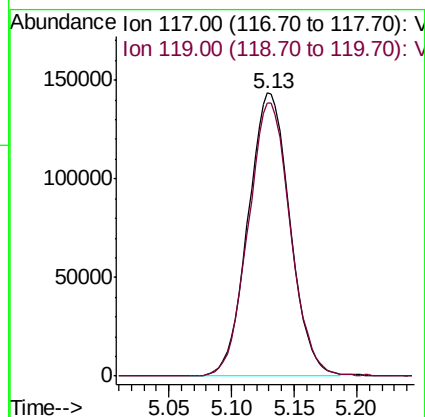
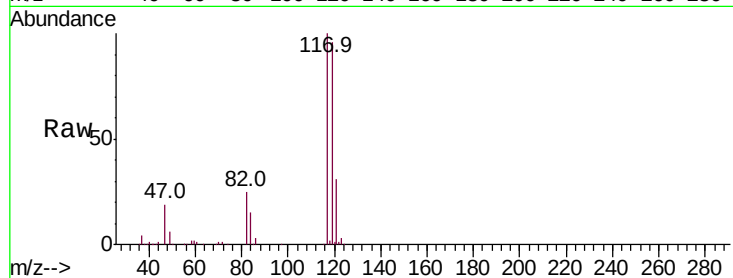
ClientSampleId :

Tot Ion:117 Resp: 333349

Ion Ratio Lower Upper

117 100

119 97.1 76.2 114.4



#33

Benzene

Concen: 52.201 ug/L

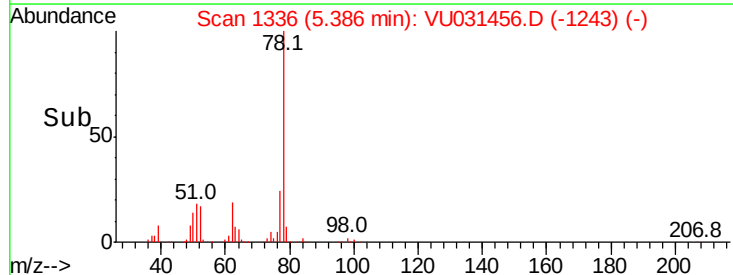
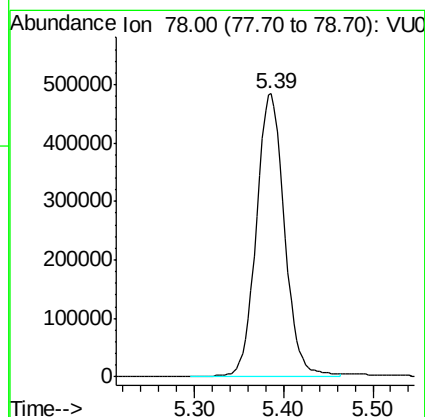
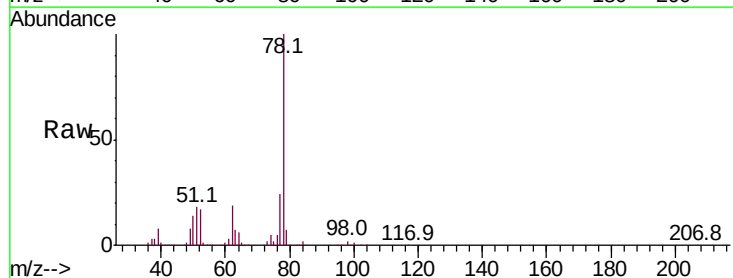
RT: 5.39 min Scan# 1336

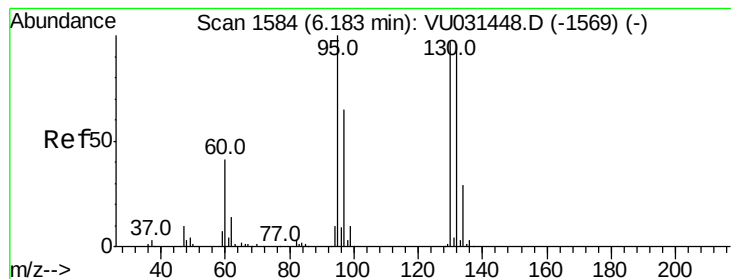
Delta R.T. 0.00 min

Lab File: VU031456.D

Acq: 23 Apr 2019 23:23

Tgt Ion: 78 Resp: 1066449





#34

Trichloroethene

Concen: 49.946 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU031456.D

Acq: 23 Apr 2019 23:23

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 270240

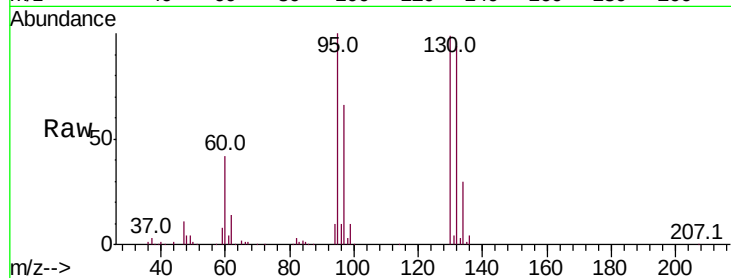
Ion Ratio Lower Upper

95 100

97 66.3 44.9 83.5

132 93.8 68.0 126.2

130 99.5 70.1 130.1



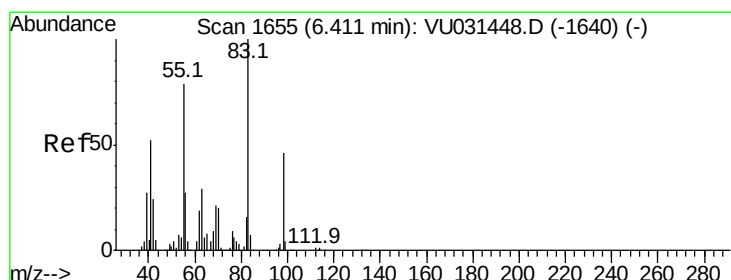
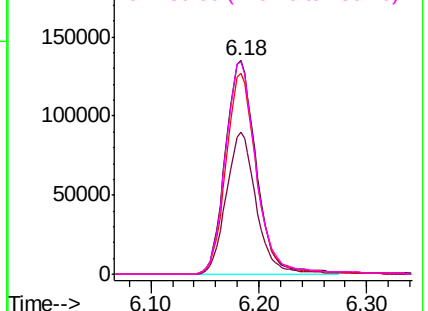
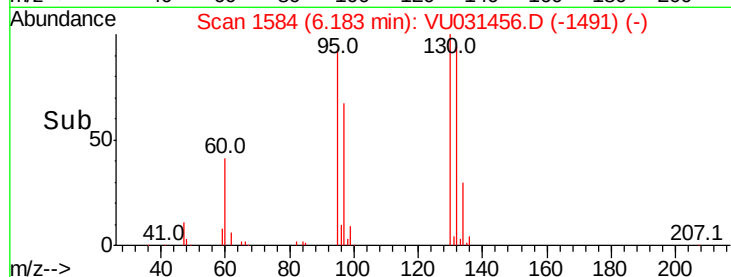
Abundance

Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 51.055 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU031456.D

Acq: 23 Apr 2019 23:23

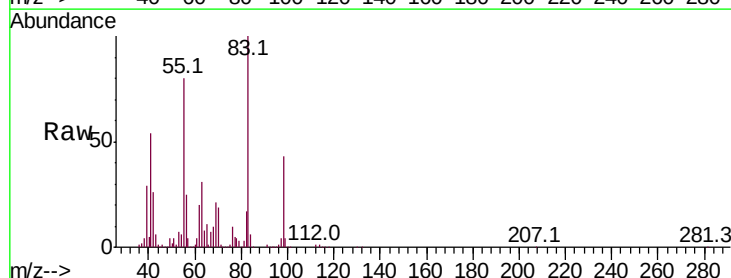
Tgt Ion: 83 Resp: 404220

Ion Ratio Lower Upper

83 100

55 82.5 65.4 98.0

98 44.8 36.8 55.2

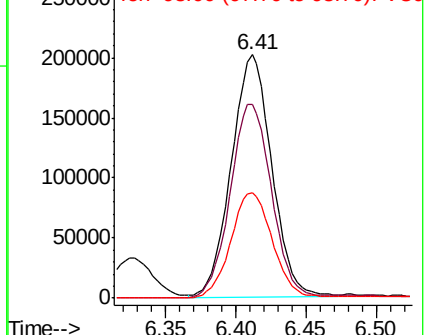
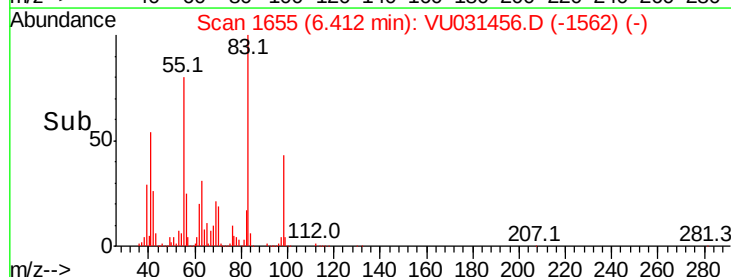


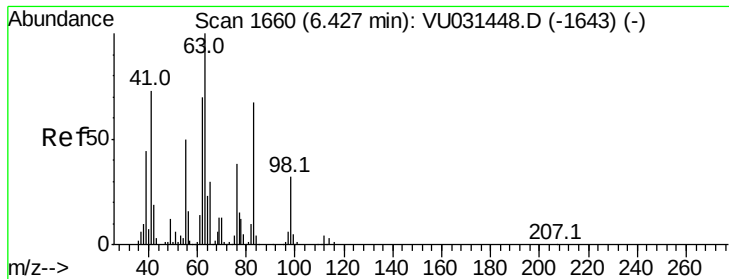
Abundance

Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

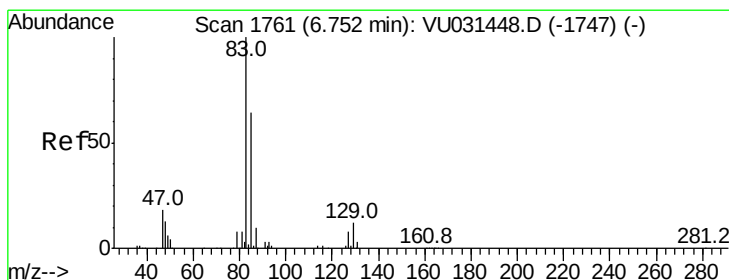
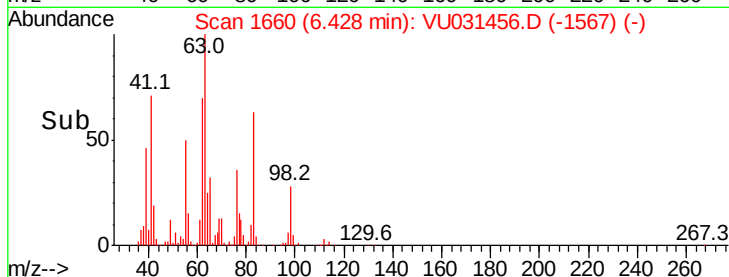
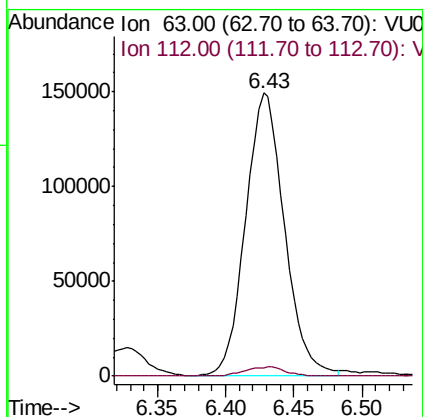
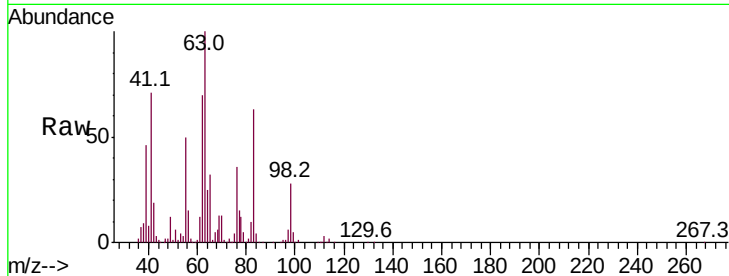




#37
 1,2-Dichloropropane
 Concen: 53.986 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU031456.D
 Acq: 23 Apr 2019 23:23

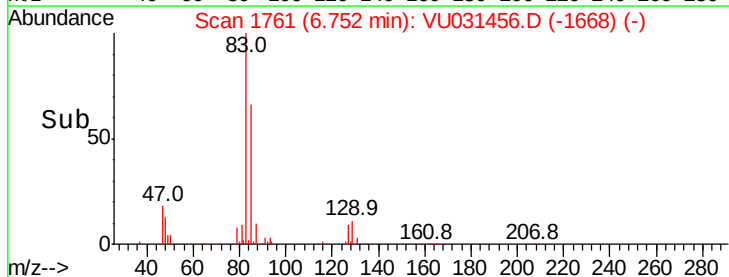
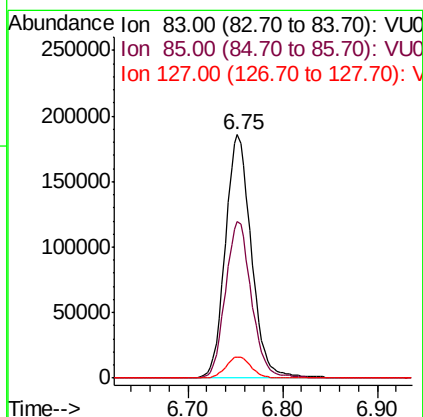
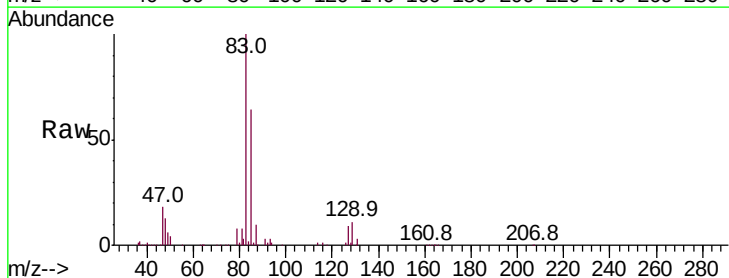
Instrument :
 MSVOA_U
 ClientSampleId :

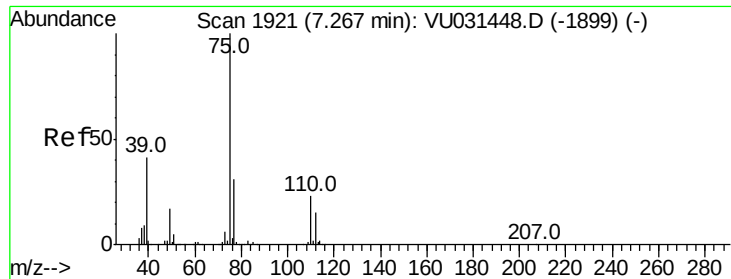
Tot Ion: 63 Resp: 293816
 Ion Ratio Lower Upper
 63 100
 112 3.5 3.0 4.4



#38
 Bromodichloromethane
 Concen: 52.776 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU031456.D
 Acq: 23 Apr 2019 23:23

Tgt Ion: 83 Resp: 352344
 Ion Ratio Lower Upper
 83 100
 85 64.3 45.0 83.6
 127 8.6 6.7 10.1



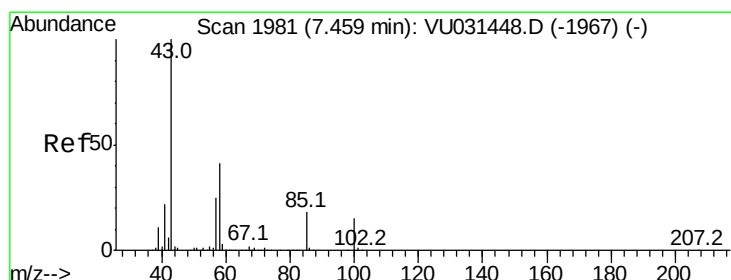
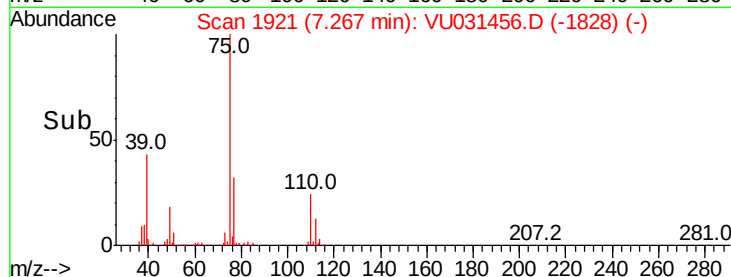
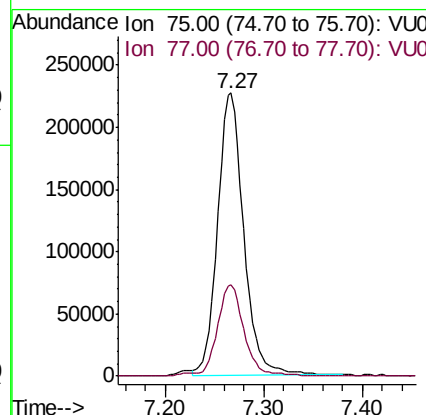
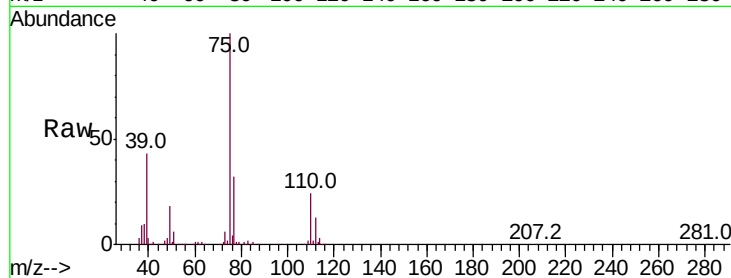


#39

cis-1,3-Dichloropropene
 Concen: 51.760 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU031456.D
 Acq: 23 Apr 2019 23:23

Instrument :
 MSVOA_U
 ClientSampled :

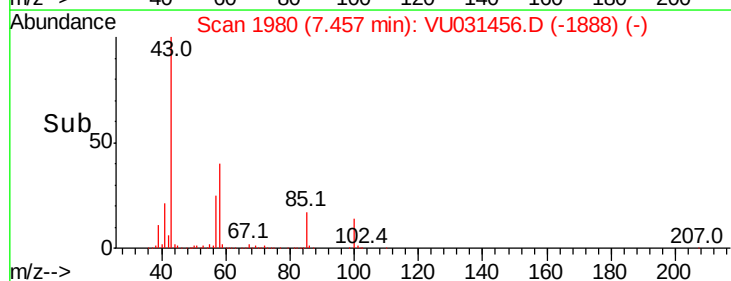
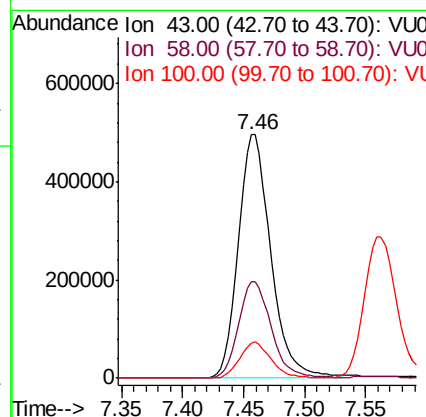
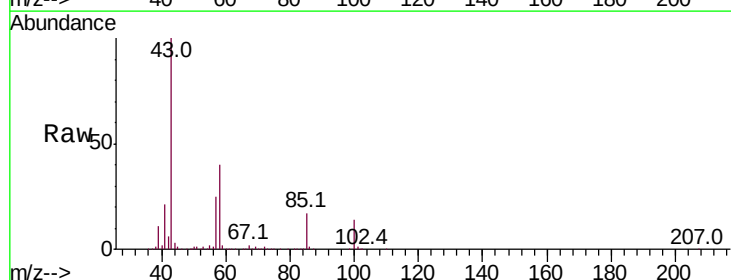
Tot Ion: 75 Resp: 421601
 Ion Ratio Lower Upper
 75 100
 77 32.4 23.0 42.8

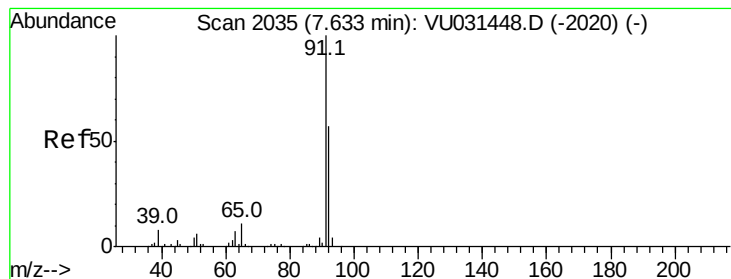


#40

4-Methyl-2-pentanone
 Concen: 110.579 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. -0.00 min
 Lab File: VU031456.D
 Acq: 23 Apr 2019 23:23

Tgt Ion: 43 Resp: 914637
 Ion Ratio Lower Upper
 43 100
 58 39.9 32.3 48.5
 100 14.2 11.8 17.8





#42

Toluene

Concen: 52.845 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU031456.D

Acq: 23 Apr 2019 23:23

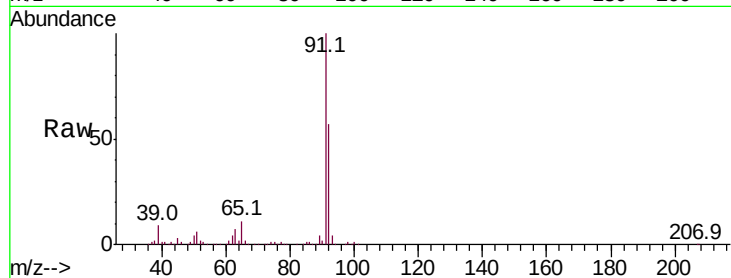
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 1120325

Ion Ratio Lower Upper

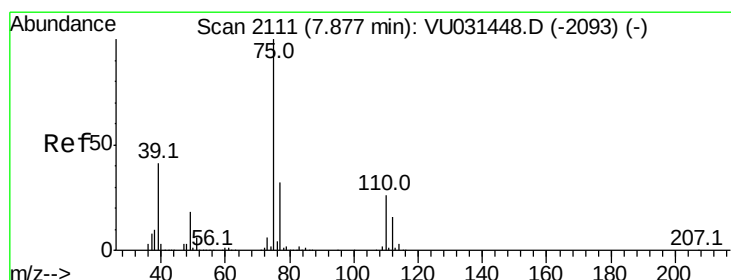
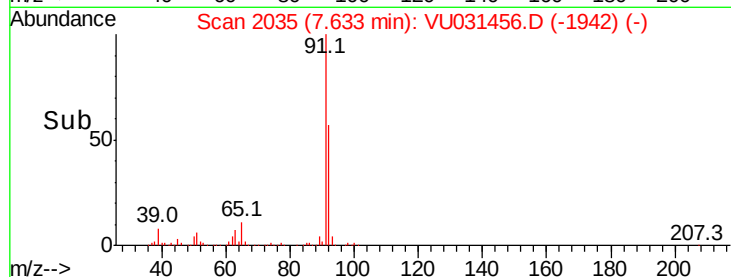
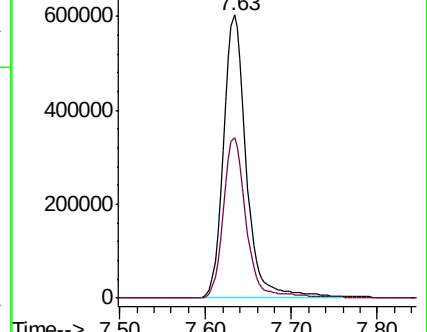
91 100

92 56.6 40.6 75.4



Abundance Ion 91.00 (90.70 to 91.70): VU031448.D (-2020) (-)

Ion 92.00 (91.70 to 92.70): VU031448.D (-2020) (-)



#44

trans-1,3-Dichloropropene

Concen: 52.394 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU031456.D

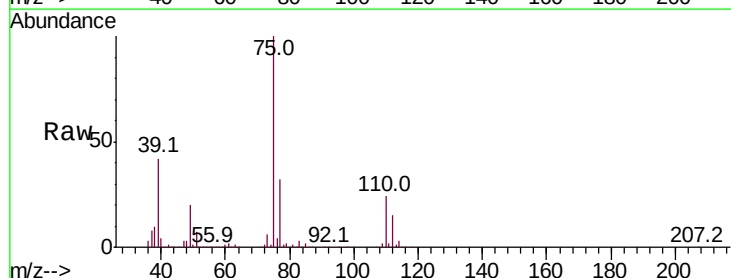
Acq: 23 Apr 2019 23:23

Tgt Ion: 75 Resp: 367879

Ion Ratio Lower Upper

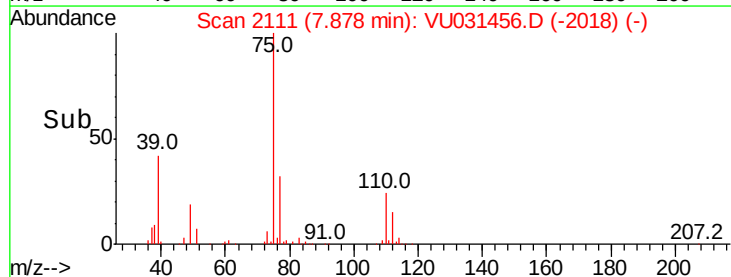
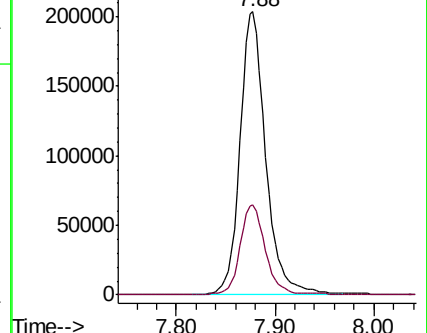
75 100

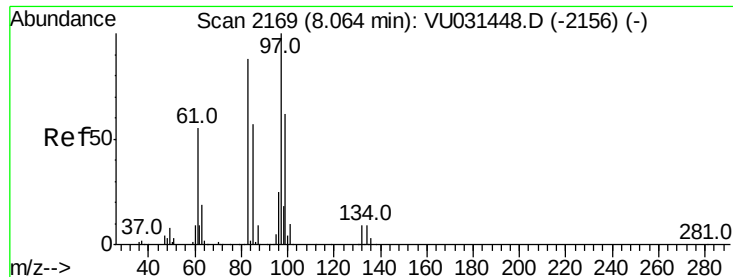
77 31.8 22.3 41.3



Abundance Ion 75.00 (74.70 to 75.70): VU031448.D (-2093) (-)

Ion 77.00 (76.70 to 77.70): VU031448.D (-2093) (-)

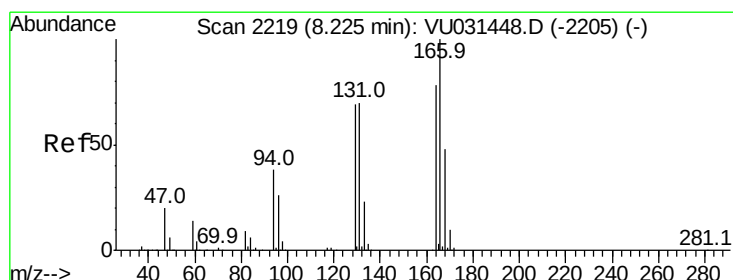
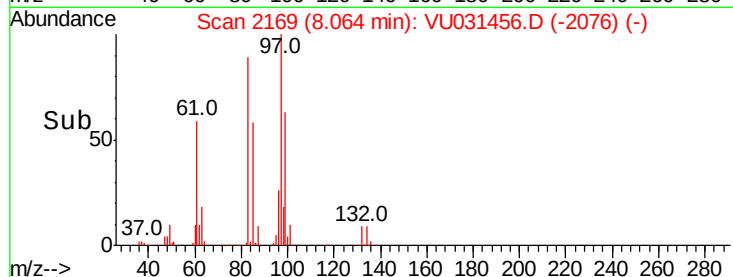
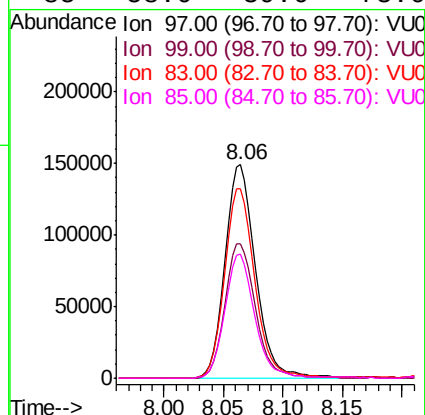
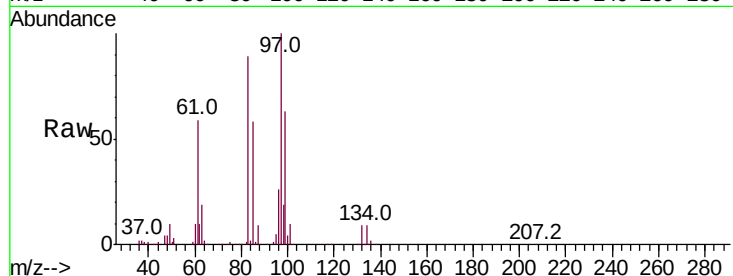




#45
 1,1,2-Trichloroethane
 Concen: 53.242 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU031456.D
 Acq: 23 Apr 2019 23:23

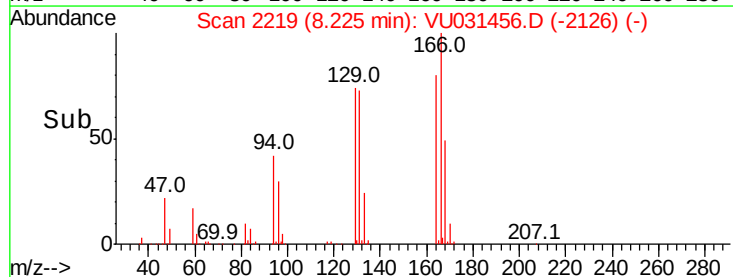
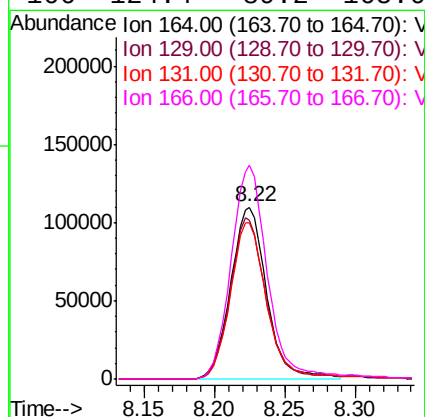
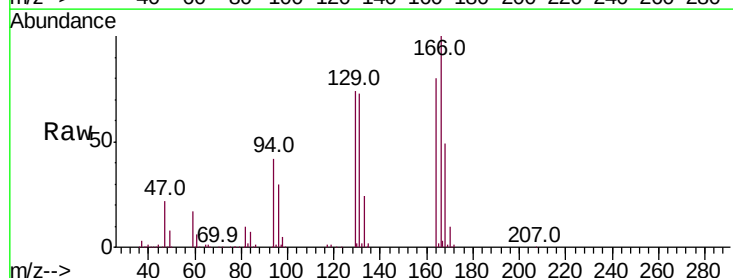
Instrument :
 MSVOA_U
 ClientSampleId :

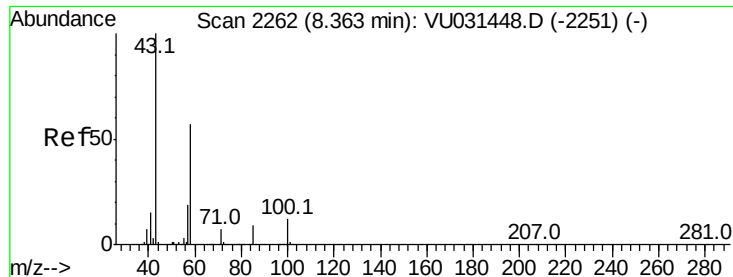
Tot Ion:	97	Resp:	266134
Ion	Ratio	Lower	Upper
97	100		
99	63.1	44.9	83.3
83	88.7	62.5	116.1
85	58.0	39.6	73.6



#46
 Tetrachloroethene
 Concen: 51.135 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU031456.D
 Acq: 23 Apr 2019 23:23

Tgt Ion:	164	Resp:	196226
Ion	Ratio	Lower	Upper
164	100		
129	92.3	65.2	121.0
131	91.2	61.4	114.0
166	124.4	89.2	165.6

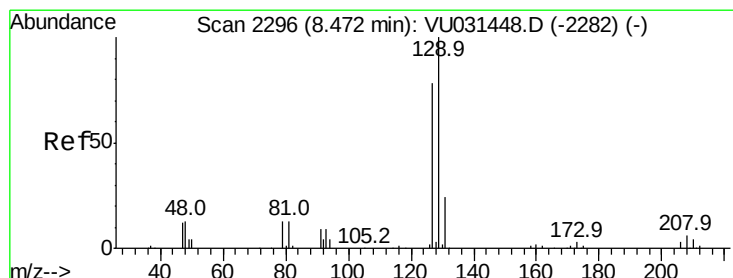
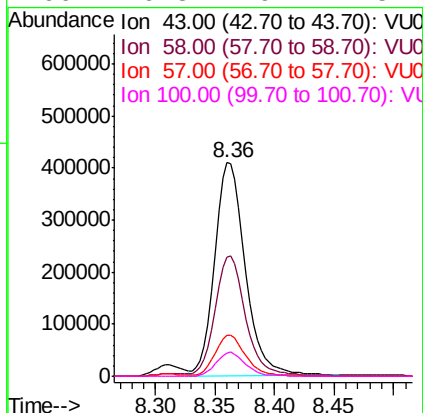
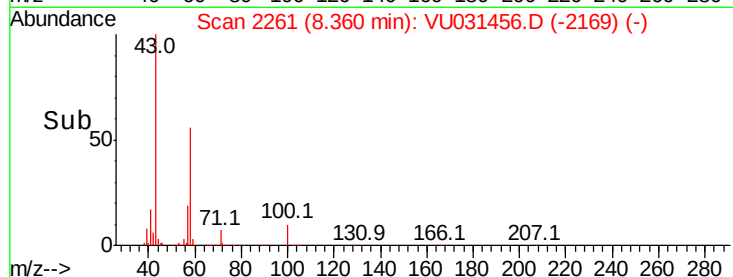
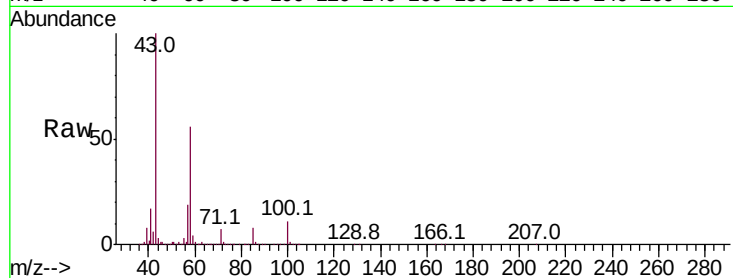




#48
2-Hexanone
Concen: 112.653 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. -0.00 min
Lab File: VU031456.D
Acq: 23 Apr 2019 23:23

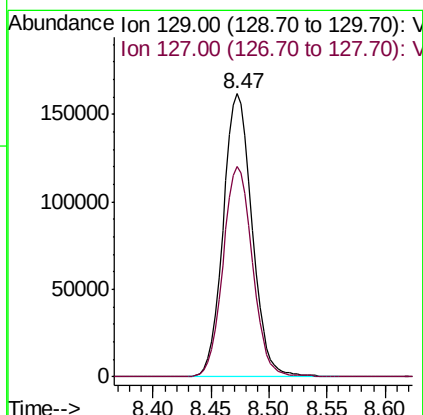
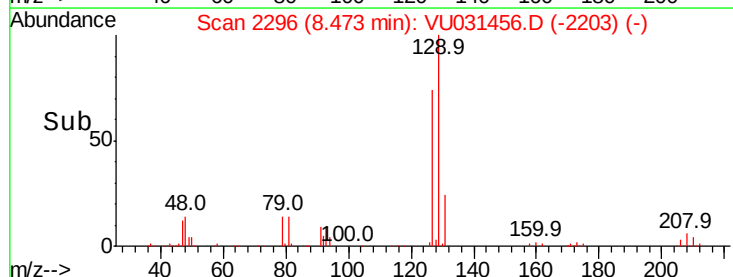
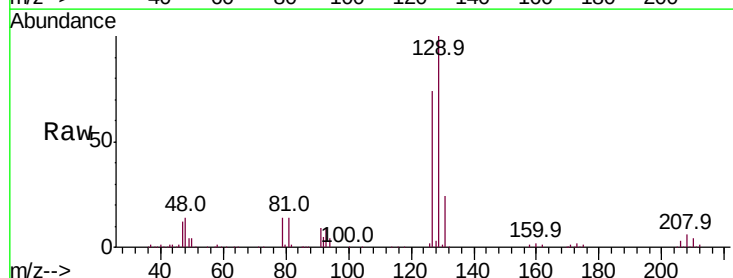
Instrument :
MSVOA_U
ClientSampleId :

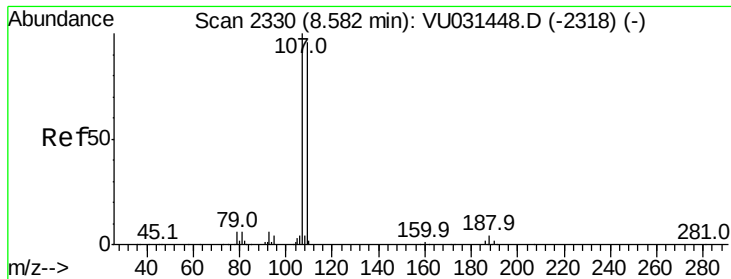
Tot Ion: 43 Resp: 726863
Ion Ratio Lower Upper
43 100
58 56.7 45.5 68.3
57 18.9 15.2 22.8
100 10.8 9.1 13.7



#49
Dibromochloromethane
Concen: 52.905 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU031456.D
Acq: 23 Apr 2019 23:23

Tgt Ion: 129 Resp: 280576
Ion Ratio Lower Upper
129 100
127 74.3 54.2 100.6

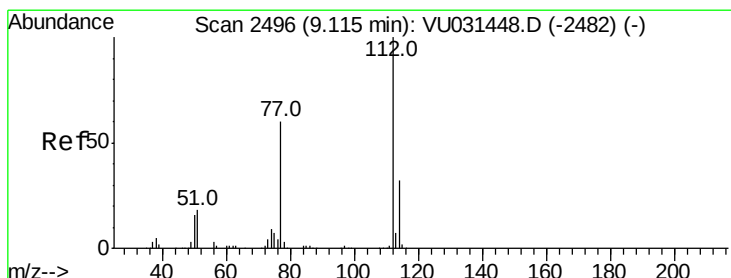
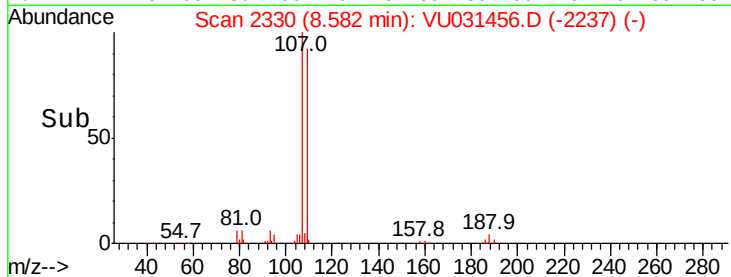
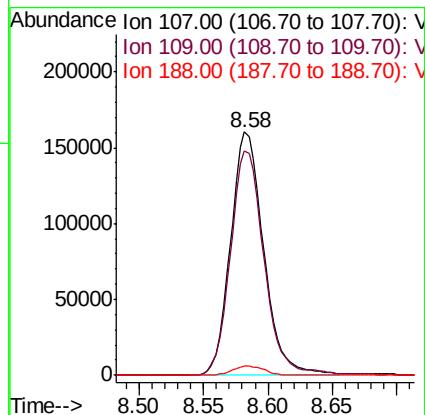
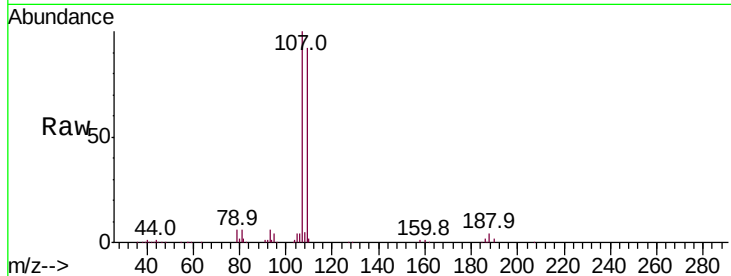




#50
 1,2-Dibromoethane
 Concen: 54.449 ug/L
 RT: 8.58 min Scan# 2330
 Delta R.T. 0.00 min
 Lab File: VU031456.D
 Acq: 23 Apr 2019 23:23

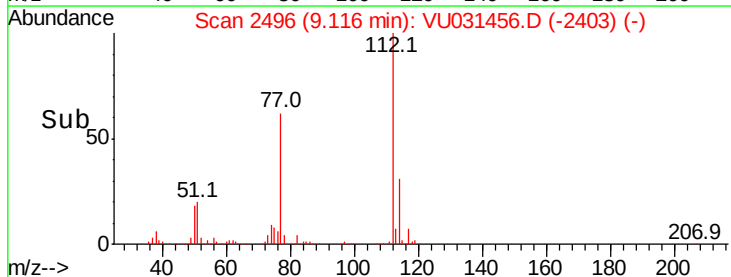
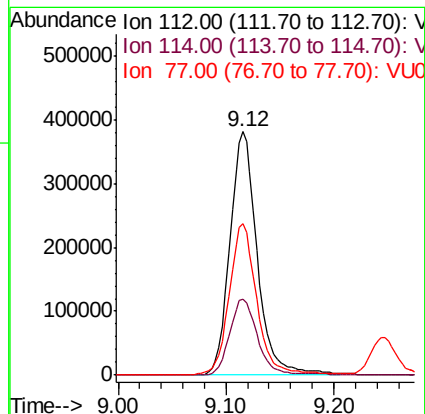
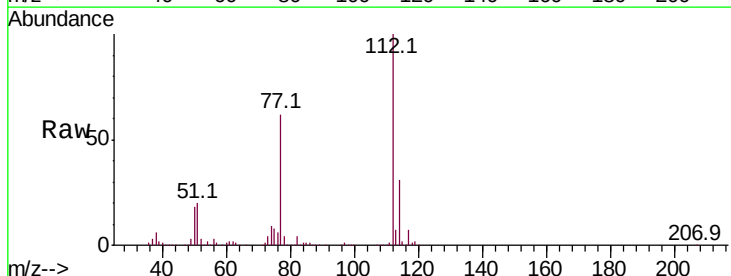
Instrument :
 MSVOA_U
 ClientSampleId :

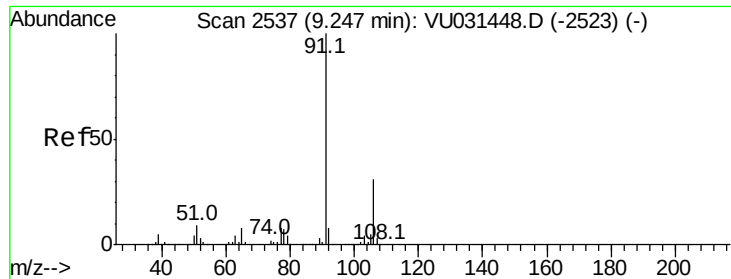
Tot Ion	Ratio	Lower	Upper
107	100		
109	92.1	66.6	123.8
188	3.8	2.6	4.0



#51
 Chlorobenzene
 Concen: 51.237 ug/L
 RT: 9.12 min Scan# 2496
 Delta R.T. 0.00 min
 Lab File: VU031456.D
 Acq: 23 Apr 2019 23:23

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.3	23.0	42.8
77	62.0	47.1	70.7





#52

Ethylbenzene

Concen: 52.673 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU031456.D

Acq: 23 Apr 2019 23:23

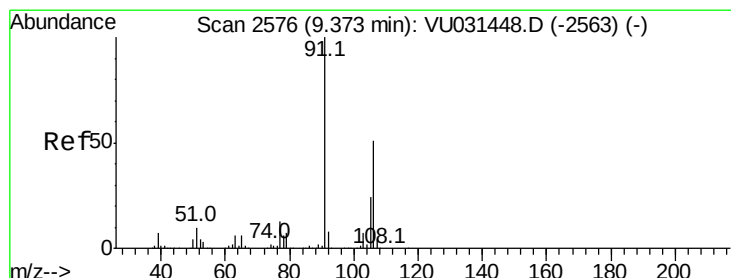
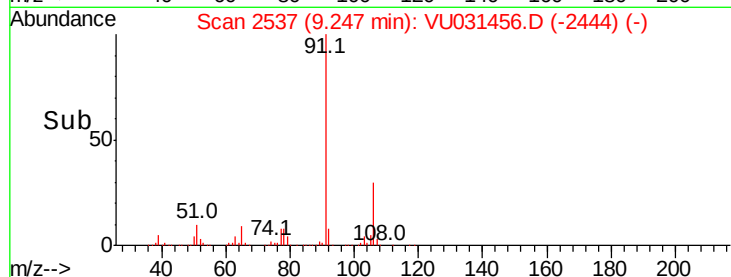
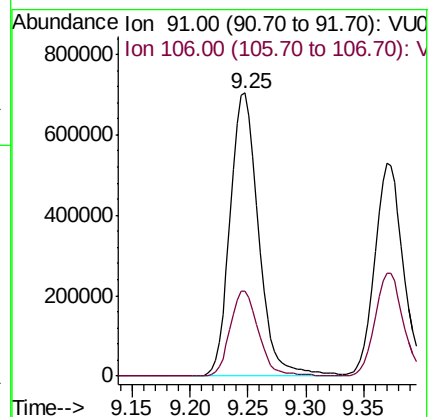
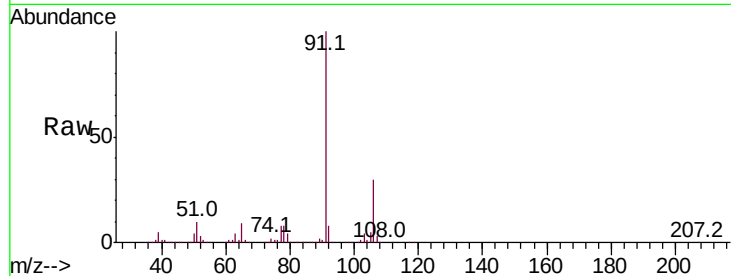
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 1196319

Ion Ratio Lower Upper

91 100

106 30.2 21.3 39.5



#53

m,p-Xylene

Concen: 52.914 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU031456.D

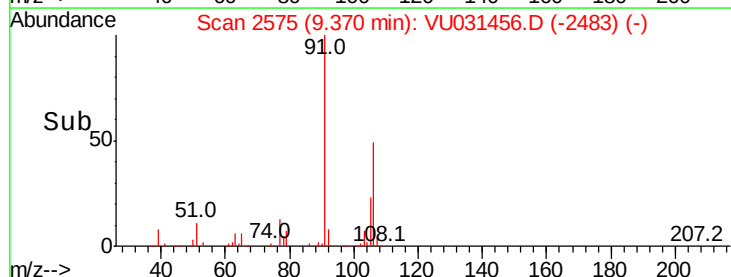
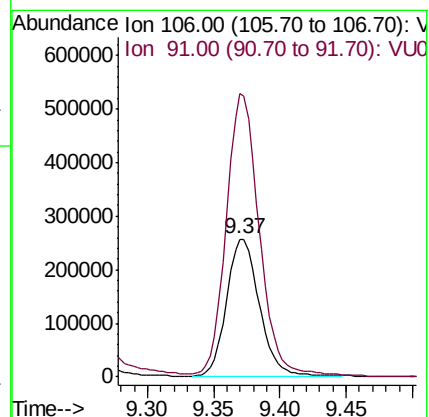
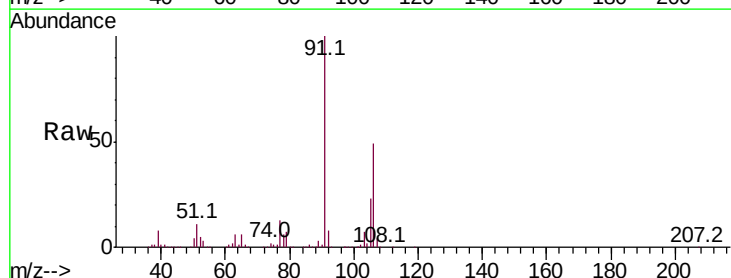
Acq: 23 Apr 2019 23:23

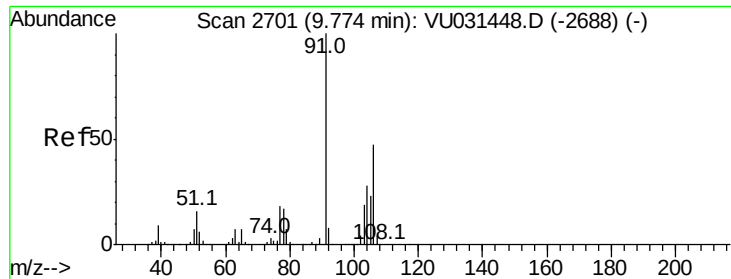
Tgt Ion: 106 Resp: 438628

Ion Ratio Lower Upper

106 100

91 205.2 141.5 262.7





#54

o-xylene

Concen: 52.708 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU031456.D

Acq: 23 Apr 2019 23:23

Instrument :

MSVOA_U

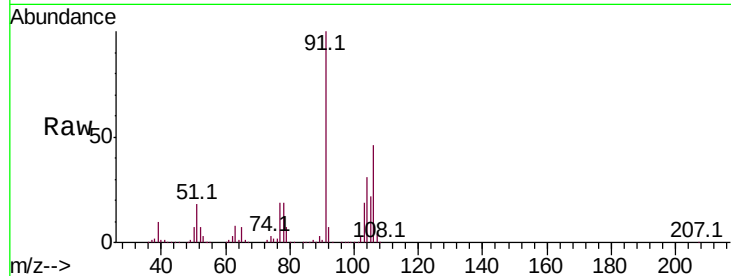
ClientSampled :

Tot Ion:106 Resp: 439271

Ion Ratio Lower Upper

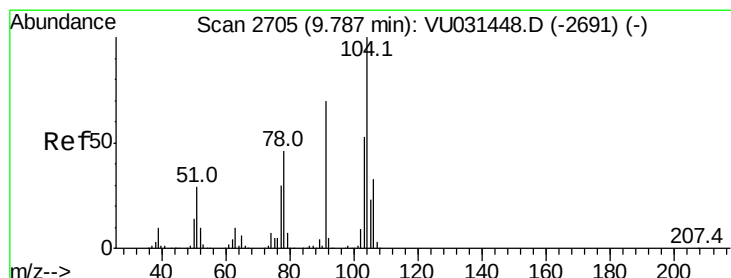
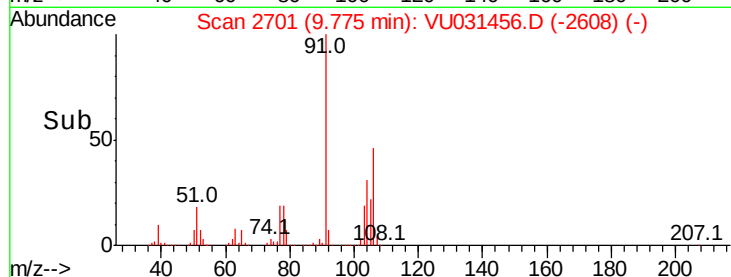
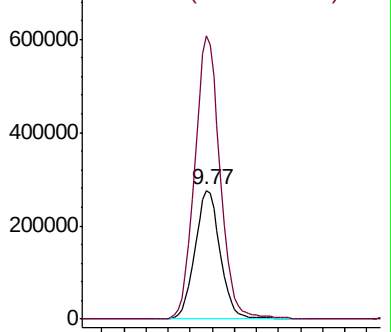
106 100

91 219.2 152.4 283.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 54.585 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU031456.D

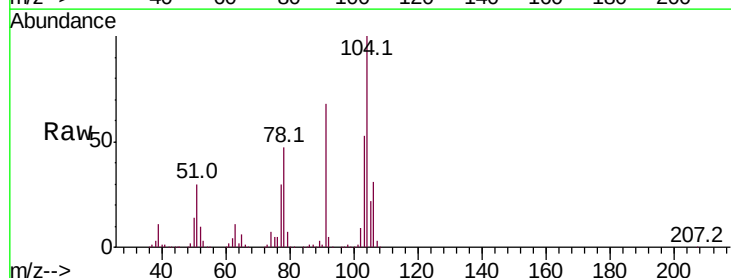
Acq: 23 Apr 2019 23:23

Tgt Ion:104 Resp: 756577

Ion Ratio Lower Upper

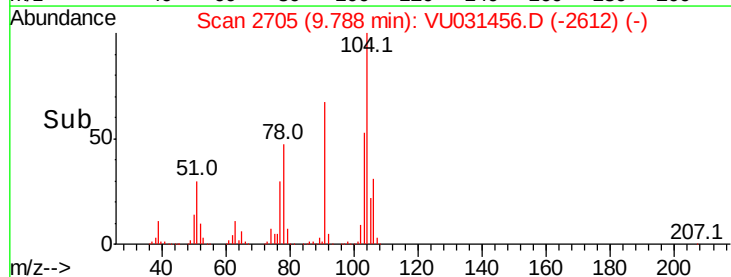
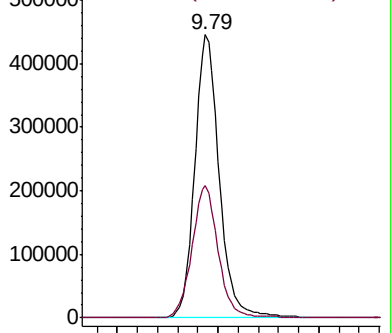
104 100

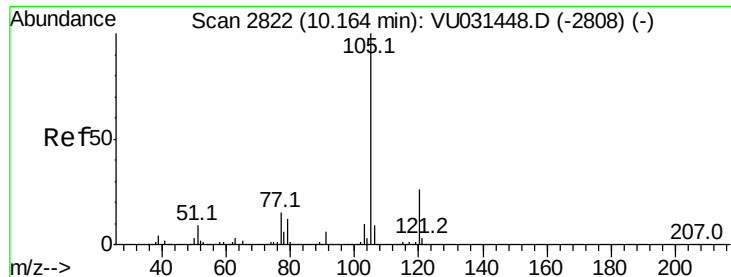
78 46.9 31.1 57.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 54.040 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. -0.00 min

Lab File: VU031456.D

Acq: 23 Apr 2019 23:23

Instrument :

MSVOA_U

ClientSampled :

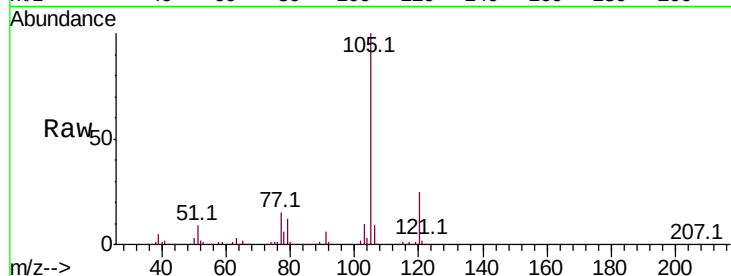
Tot Ion:105 Resp: 1157033

Ion Ratio Lower Upper

105 100

120 25.4 20.7 31.1

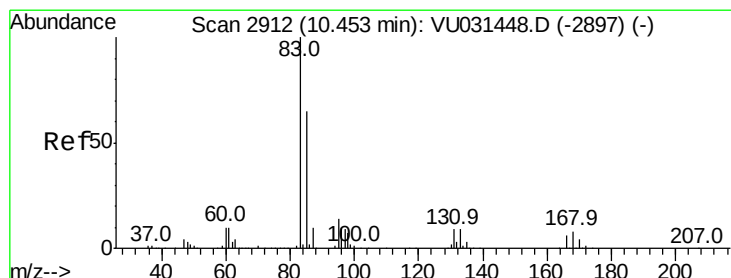
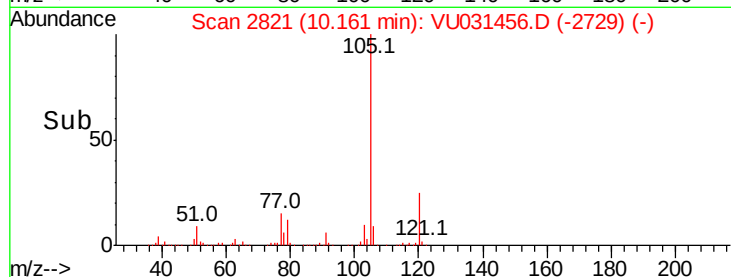
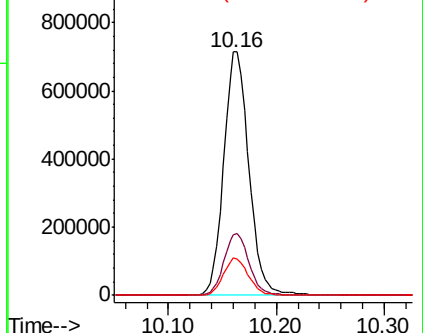
77 15.1 12.2 18.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU



#58

1,1,2,2-Tetrachloroethane

Concen: 52.465 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU031456.D

Acq: 23 Apr 2019 23:23

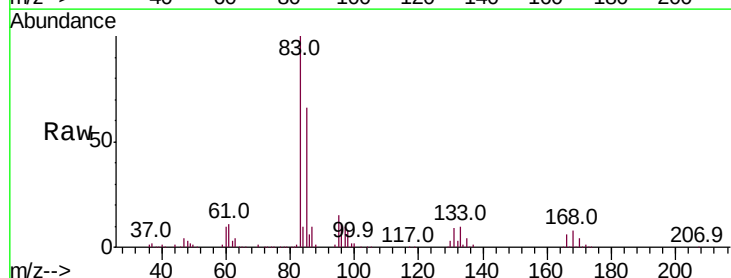
Tgt Ion: 83 Resp: 452790

Ion Ratio Lower Upper

83 100

85 65.9 44.5 82.7

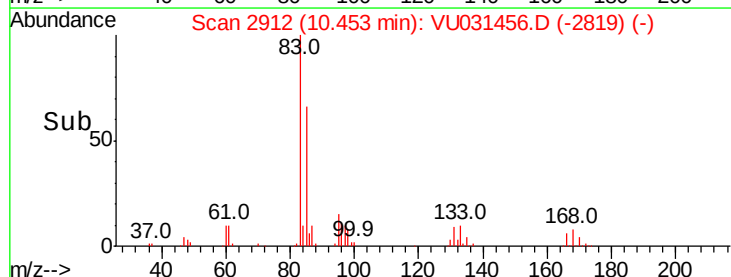
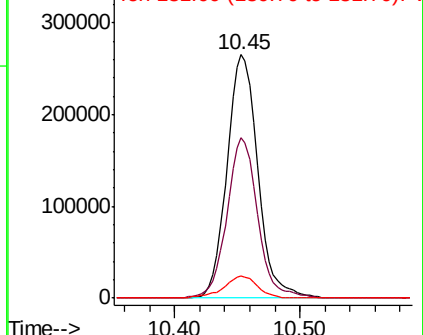
131 9.0 7.0 10.6

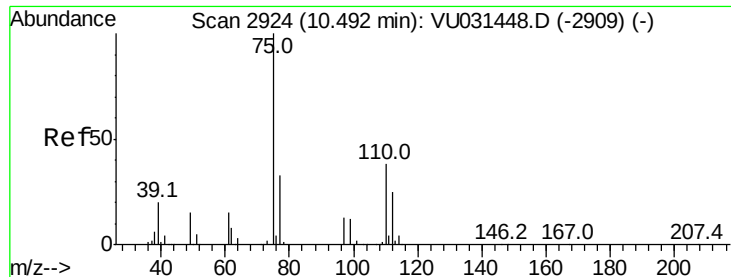


Abundance Ion 83.00 (82.70 to 83.70): VU

Ion 85.00 (84.70 to 85.70): VU

Ion 131.00 (130.70 to 131.70): V

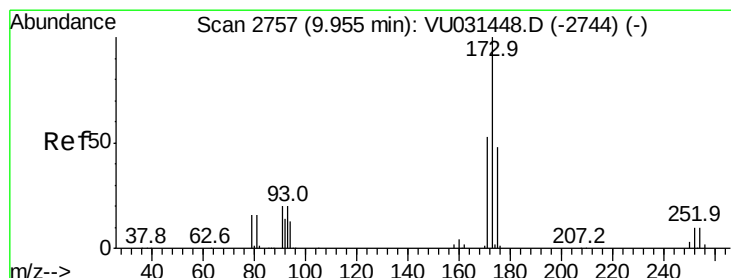
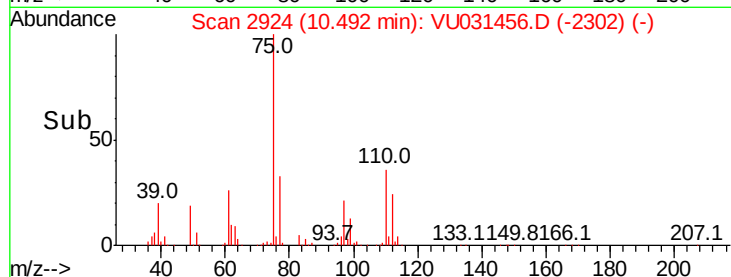
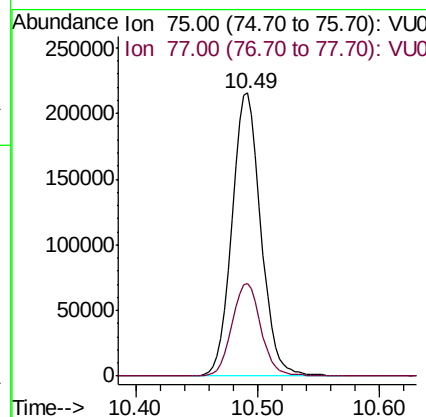
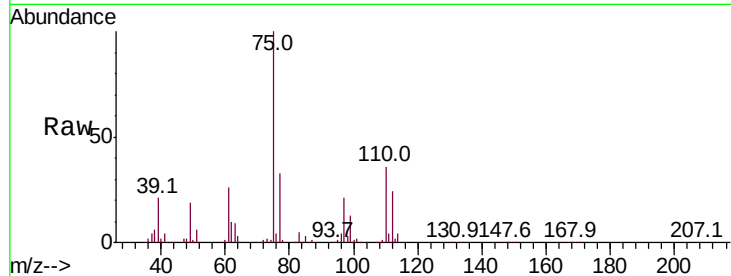




#59
 1,2,3-Trichloropropane
 Concen: 53.125 ug/L
 RT: 10.49 min Scan# 2924
 Delta R.T. 0.00 min
 Lab File: VU031456.D
 Acq: 23 Apr 2019 23:23

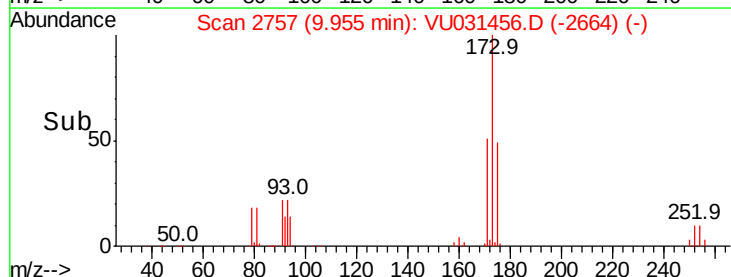
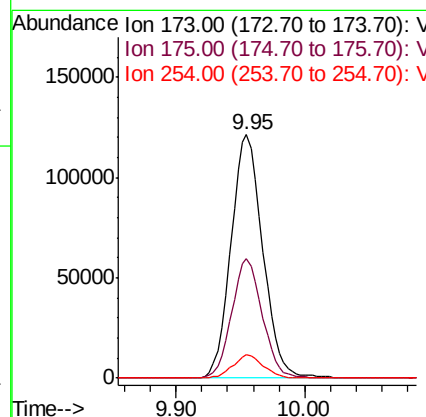
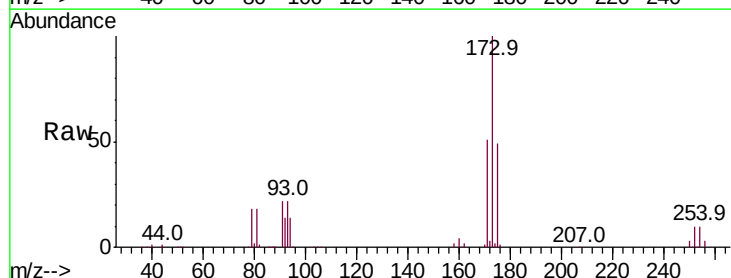
Instrument :
 MSVOA_U
 ClientSampled :

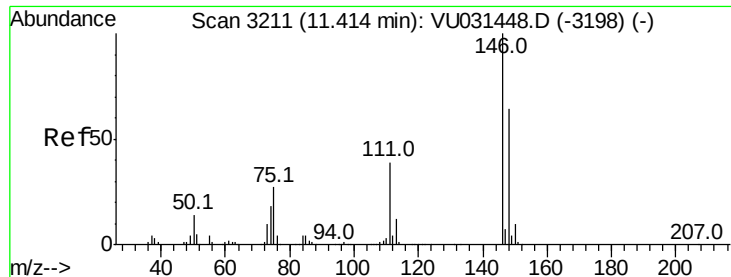
Tot Ion: 75 Resp: 356839
 Ion Ratio Lower Upper
 75 100
 77 32.9 25.6 38.4



#61
 Bromoform
 Concen: 52.481 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU031456.D
 Acq: 23 Apr 2019 23:23

Tgt Ion: 173 Resp: 207229
 Ion Ratio Lower Upper
 173 100
 175 47.1 38.6 57.8
 254 9.1 7.7 11.5





#62

1,3-Dichlorobenzene

Concen: 52.258 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU031456.D

Acq: 23 Apr 2019 23:23

Instrument :

MSVOA_U

ClientSampled :

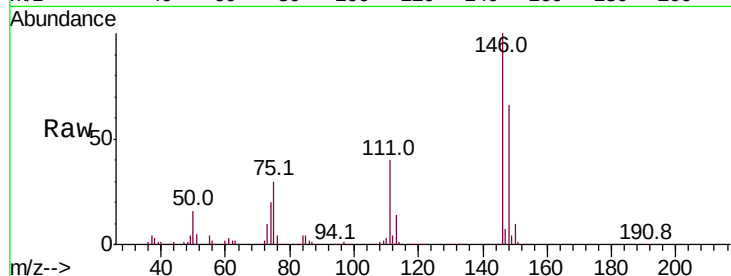
Tot Ion:146 Resp: 491479

Ion Ratio Lower Upper

146 100

111 40.4 27.4 50.8

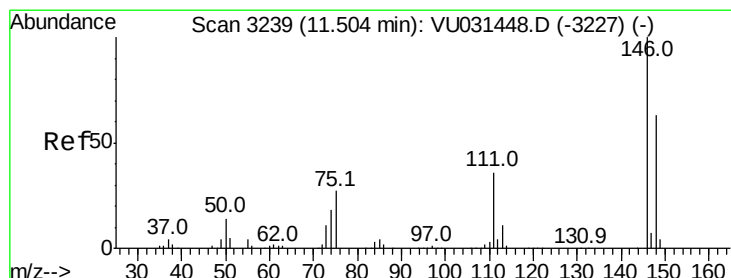
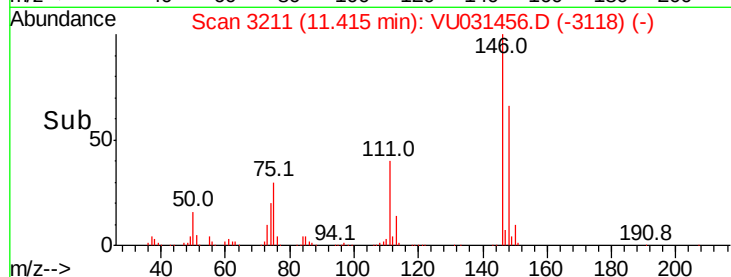
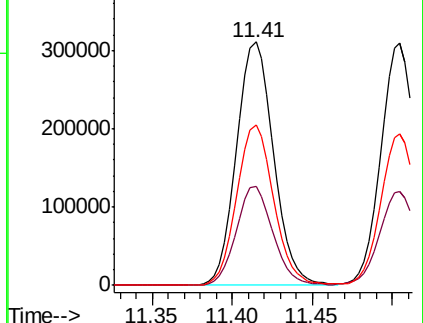
148 65.7 45.4 84.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 51.908 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU031456.D

Acq: 23 Apr 2019 23:23

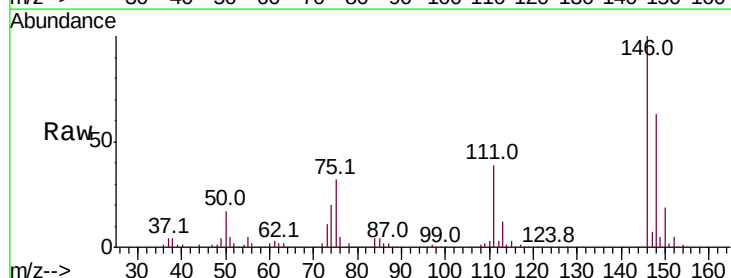
Tgt Ion:146 Resp: 486999

Ion Ratio Lower Upper

146 100

111 38.6 26.6 49.4

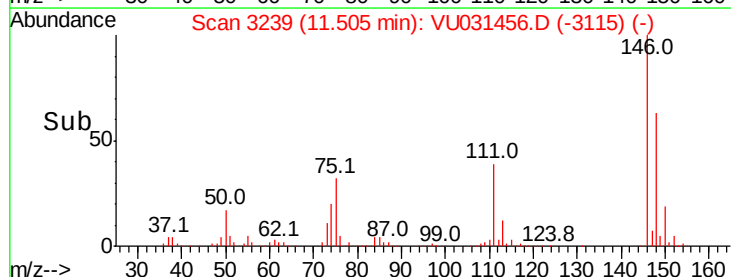
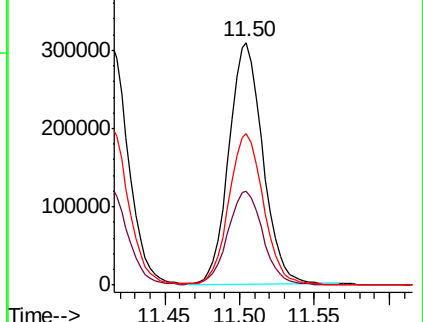
148 62.5 44.4 82.5

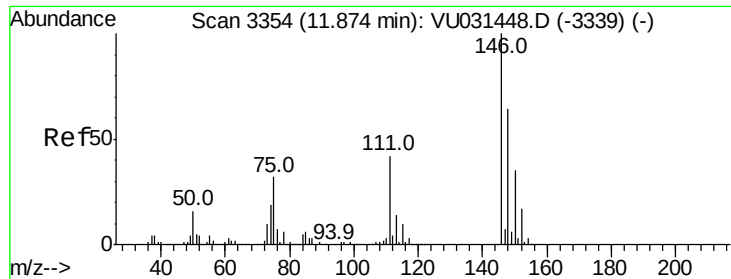


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

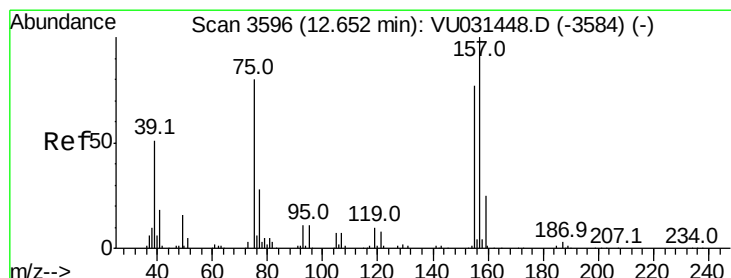
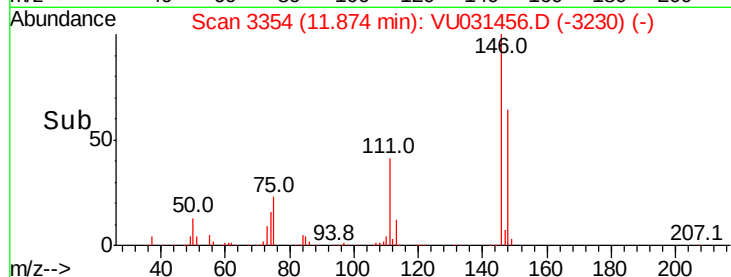
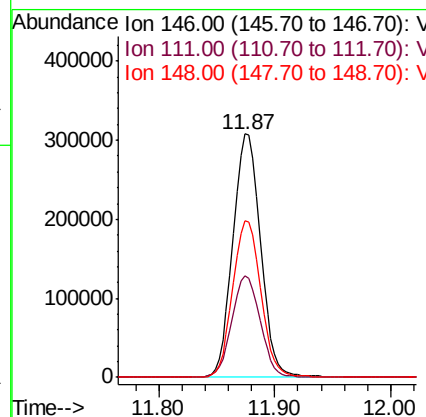
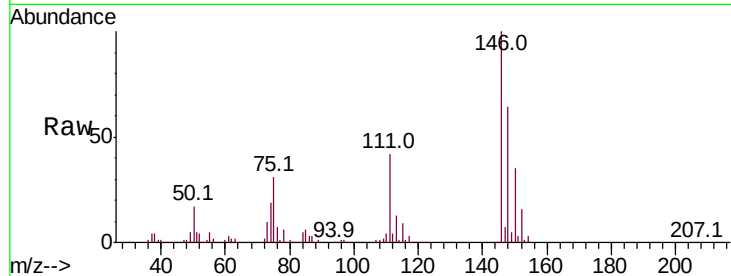




#65
 1,2-Dichlorobenzene
 Concen: 52.784 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU031456.D
 Acq: 23 Apr 2019 23:23

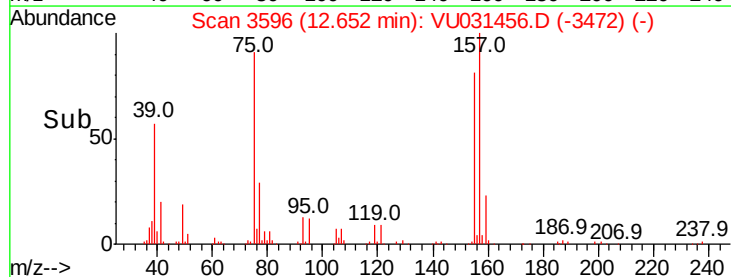
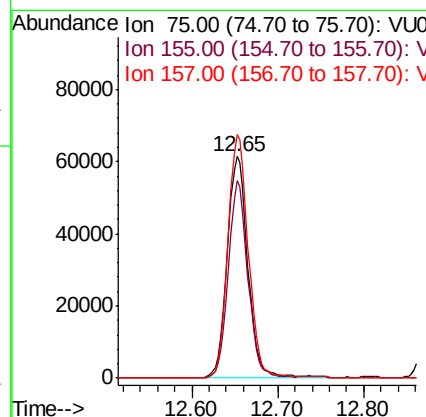
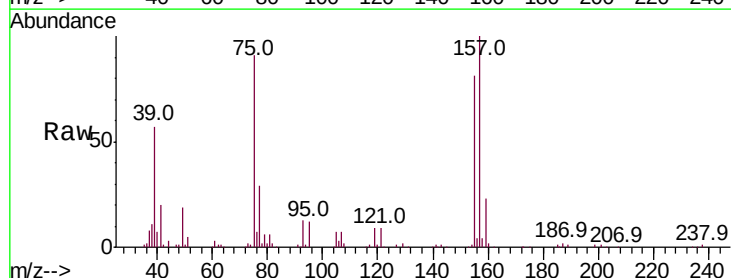
Instrument :
 MSVOA_U
 ClientSampleId :

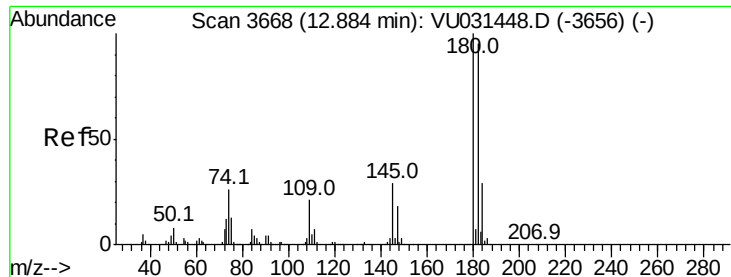
Tot Ion:146 Resp: 507480
 Ion Ratio Lower Upper
 146 100
 111 42.0 32.4 48.6
 148 64.1 50.7 76.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 58.236 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU031456.D
 Acq: 23 Apr 2019 23:23

Tgt Ion: 75 Resp: 103542
 Ion Ratio Lower Upper
 75 100
 155 89.2 68.8 103.2
 157 109.9 91.4 137.2

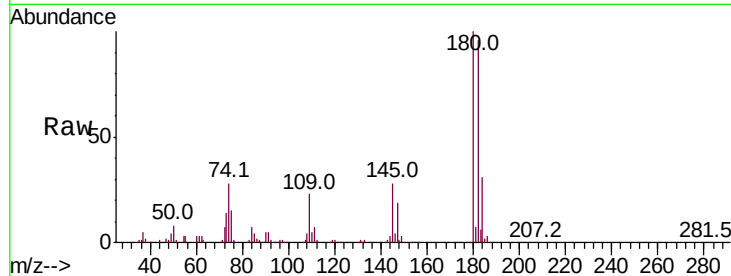




#67
 1,3,5-Trichlorobenzene
 Concen: 51.905 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU031456.D
 Acq: 23 Apr 2019 23:23

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.6	76.5	114.7
184	31.0	23.7	35.5
145	28.8	22.9	34.3



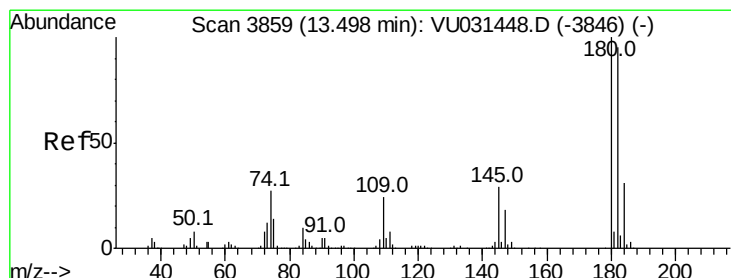
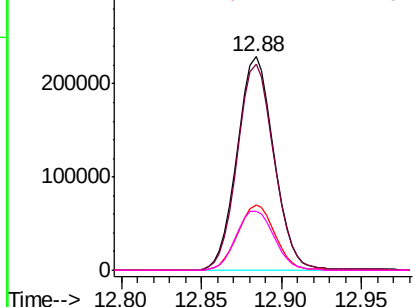
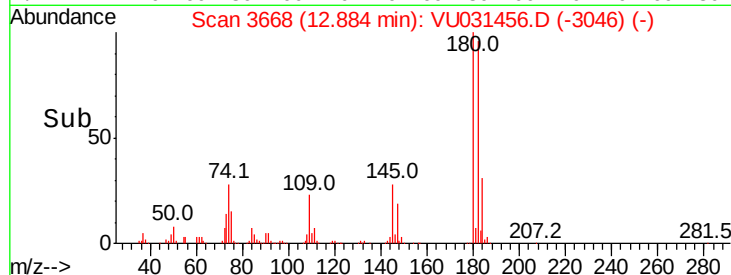
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

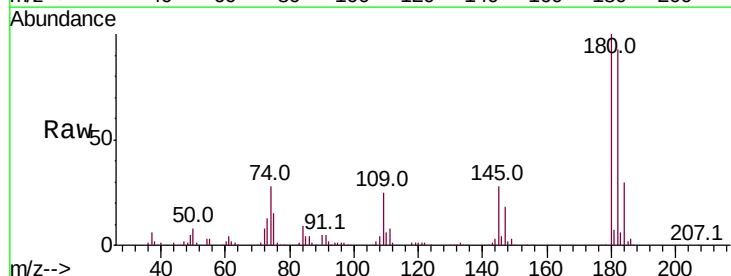
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 57.701 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU031456.D
 Acq: 23 Apr 2019 23:23

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.3	77.5	116.3
145	28.7	23.3	34.9

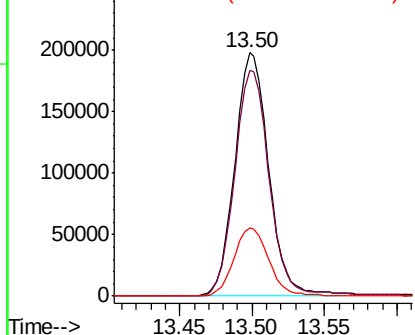
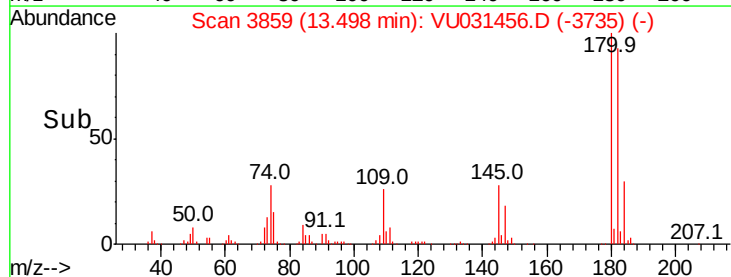


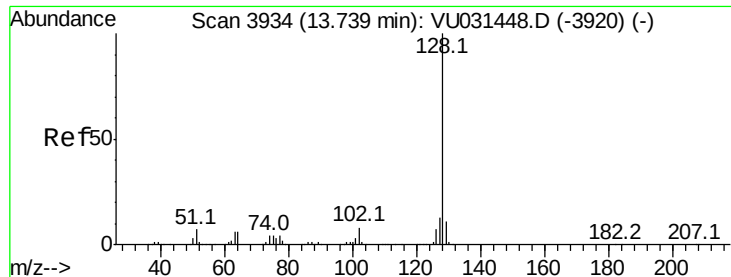
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 60.802 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU031456.D

Acq: 23 Apr 2019 23:23

Instrument :

MSVOA_U

ClientSampleId :

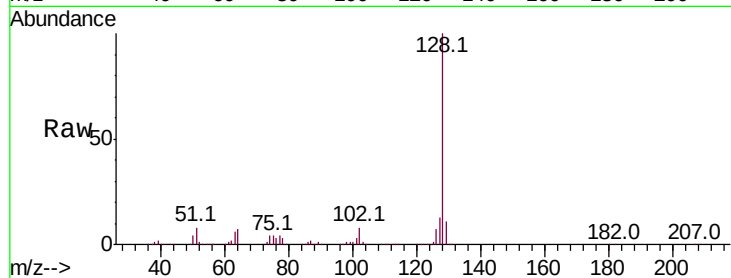
Tot Ion:128 Resp: 1177797

Ion Ratio Lower Upper

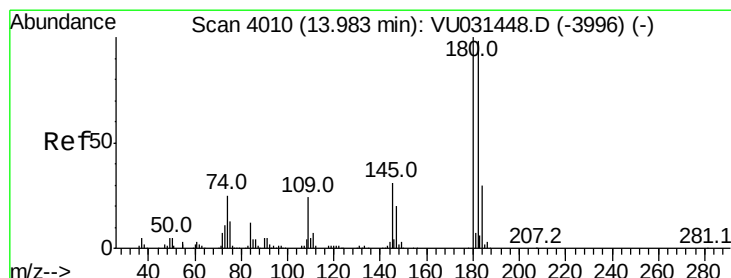
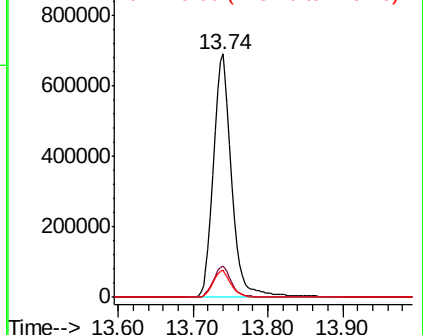
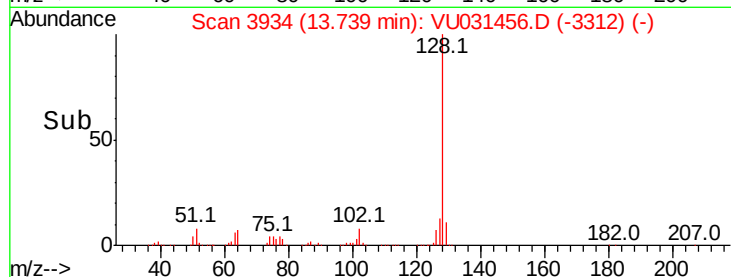
128 100

127 12.6 10.2 15.4

129 10.8 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 57.311 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU031456.D

Acq: 23 Apr 2019 23:23

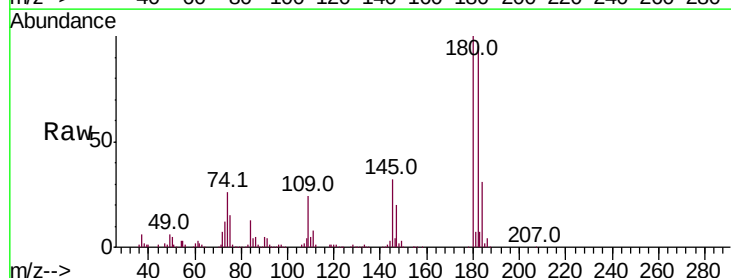
Tgt Ion:180 Resp: 343844

Ion Ratio Lower Upper

180 100

182 95.0 75.8 113.8

145 31.4 25.2 37.8



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

