

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120319\
 Data File : VU035957.D
 Acq On : 03 Dec 2019 19:09
 Operator : JC/SP
 Sample : K6105-06
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFE26

Quant Time: Dec 04 03:40:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120319WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Dec 04 03:35:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	328794	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	353133	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	117689	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	166068	4.43	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.60%
7) Chloroethane-d5	1.93	69	134730	4.48	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	89.60%
11) 1,1-Dichloroethene-d2	2.59	63	188346	3.50	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	70.00%
20) 2-Butanone-d5	4.70	46	364931	54.98	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	109.96%
24) Chloroform-d	5.11	84	230225	4.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.40%
26) 1,2-Dichloroethane-d4	5.75	65	130721	4.80	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.00%
32) Benzene-d6	5.77	84	457589	4.38	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.60%
36) 1,2-Dichloropropane-d6	6.73	67	153474	4.53	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.60%
41) Toluene-d8	7.93	98	380151	3.95	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	79.00%
43) trans-1,3-Dichloropropene-	8.22	79	56147	4.11	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	82.20%
46) 2-Hexanone-d5	8.68	63	270883	50.35	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.70%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	132527	4.66	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.20%
64) 1,2-Dichlorobenzene-d4	12.22	152	118384	4.87	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
8) Chloroethane	1.94	64	2838	0.117	ug/L #	55
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	4390	0.174	ug/L #	79
12) 1,1-Dichloroethene	2.61	96	20756	0.881	ug/L #	1
13) Acetone	2.68	43	6084	1.014	ug/L	68
17) Methyl tert-butyl Ether	3.42	73	12339	0.224	ug/L #	89
19) 1,1-Dichloroethane	3.92	63	10562	0.217	ug/L	95
22) cis-1,2-Dichloroethene	4.72	96	99214	3.764	ug/L	95
25) Chloroform	5.14	83	47389	0.963	ug/L	97
29) 1,1,1-Trichloroethane	5.37	97	7255	0.170	ug/L #	77
31) Carbon tetrachloride	5.57	117	36957	0.976	ug/L	98
34) Trichloroethene	6.58	95	597263	21.268	ug/L	99
35) Methylcyclohexane	6.73	83	33979	0.807	ug/L #	17
37) 1,2-Dichloropropane	6.73	63	16535	0.550	ug/L #	88
39) cis-1,3-Dichloropropene	7.60	75	3806	0.095	ug/L #	57
47) Tetrachloroethene	8.58	164	125459	5.497	ug/L	96
48) 2-Hexanone	8.68	43	29600	2.267	ug/L #	70
49) Dibromochloromethane	8.58	129	112626	4.512	ug/L #	12

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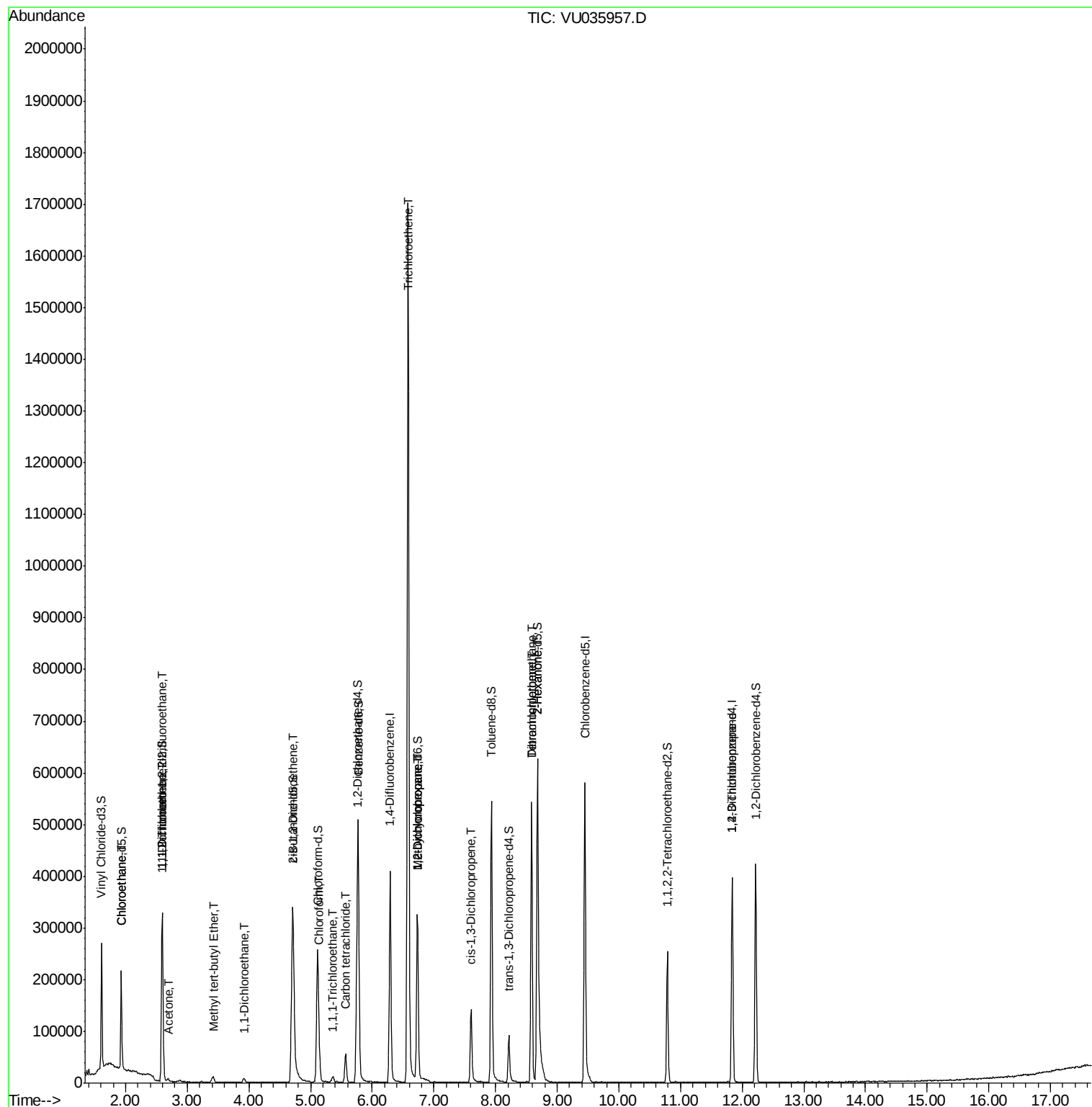
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 1,2,3-Trichloropropane	11.84	75	14265	0.730	ug/L	93

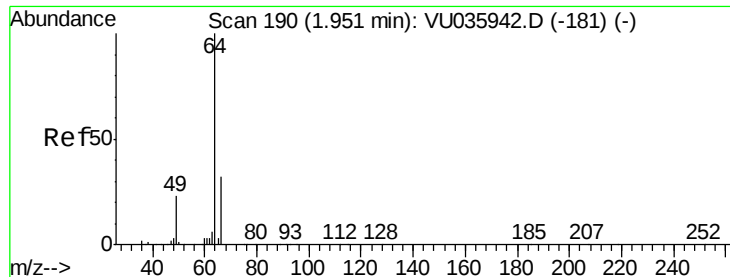
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU120319\
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#8

Chloroethane

Concen: 0.117 ug/L

RT: 1.94 min Scan# 186

Delta R.T. -0.01 min

Lab File: VU035957.D

Acq: 03 Dec 2019 19:09

Instrument :

MSVOA_U

ClientSampleId :

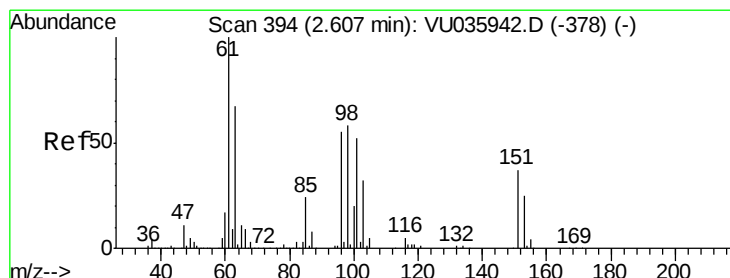
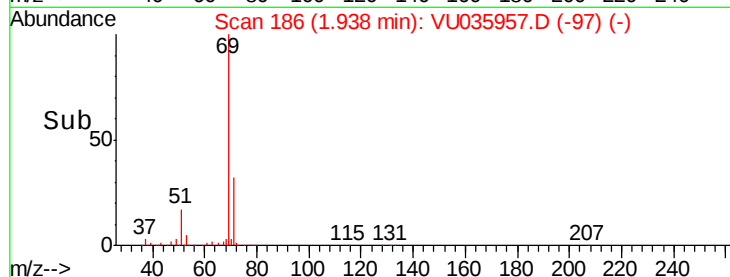
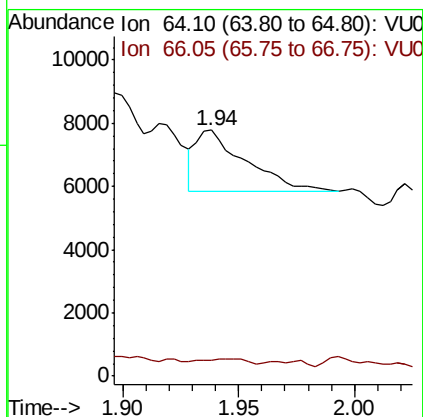
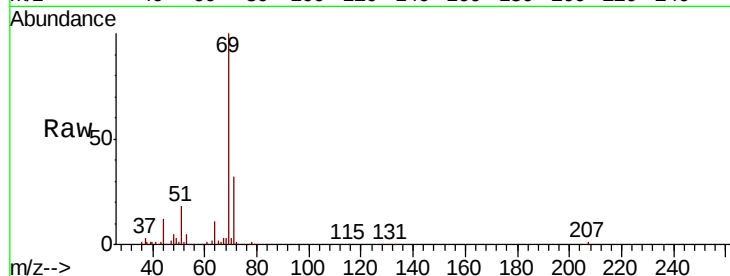
BFE26

Tot Ion: 64 Resp: 2838

Ion Ratio Lower Upper

64 100

66 6.7 22.0 40.8#



#10

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

Concen: 0.174 ug/L

RT: 2.60 min Scan# 392

Delta R.T. -0.01 min

Lab File: VU035957.D

Acq: 03 Dec 2019 19:09

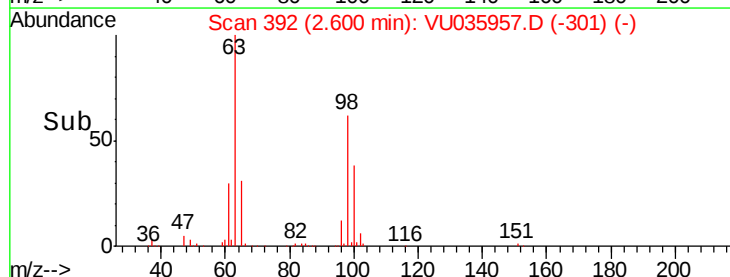
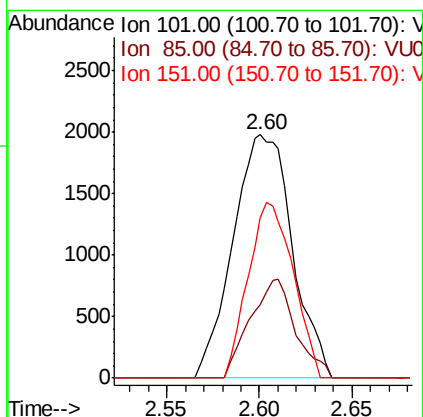
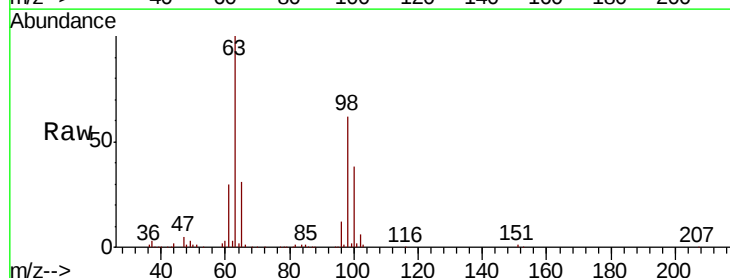
Tgt Ion: 101 Resp: 4390

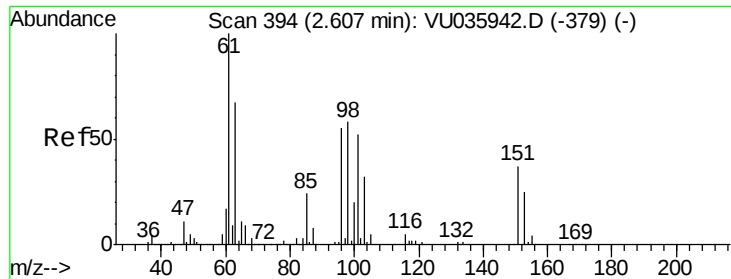
Ion Ratio Lower Upper

101 100

85 31.1 35.5 53.3#

151 54.7 57.5 86.3#





#12

1,1-Dichloroethene

Concen: 0.881 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU035957.D

Acq: 03 Dec 2019 19:09

Instrument :

MSVOA_U

ClientSampleId :

BFE26

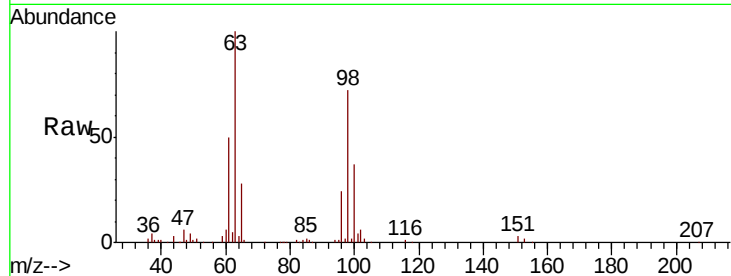
Tot Ion: 96 Resp: 20756

Ion Ratio Lower Upper

96 100

61 211.6 127.1 236.1

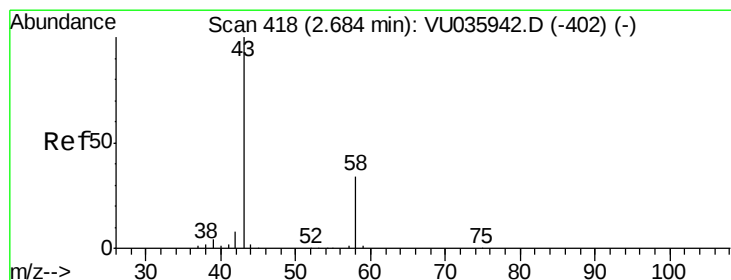
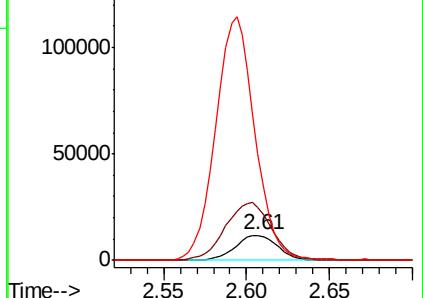
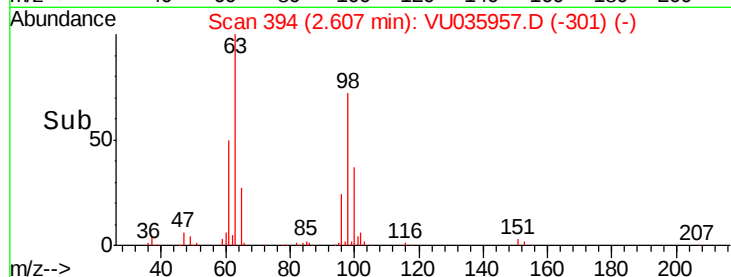
63 421.1 86.0 159.8#



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0



#13

Acetone

Concen: 1.014 ug/L

RT: 2.68 min Scan# 418

Delta R.T. 0.00 min

Lab File: VU035957.D

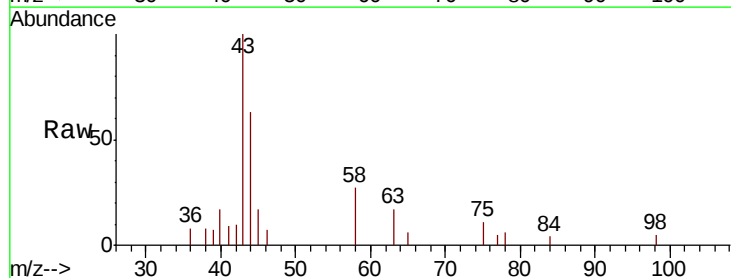
Acq: 03 Dec 2019 19:09

Tgt Ion: 43 Resp: 6084

Ion Ratio Lower Upper

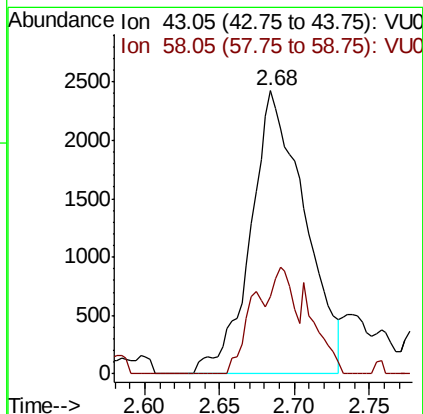
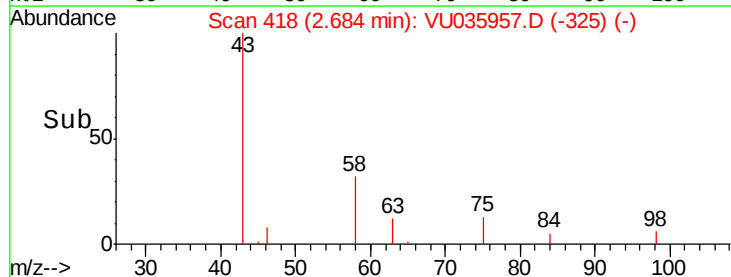
43 100

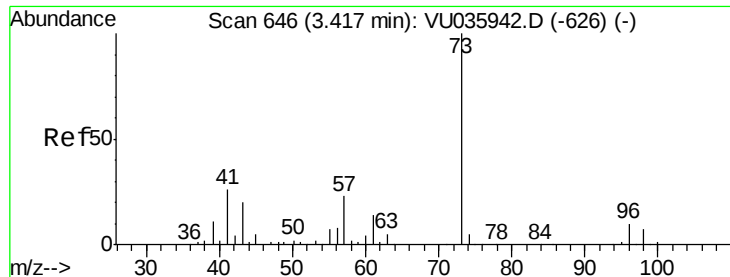
58 15.8 0.0 68.6



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

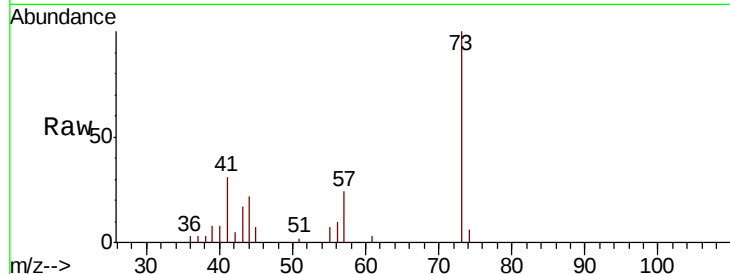




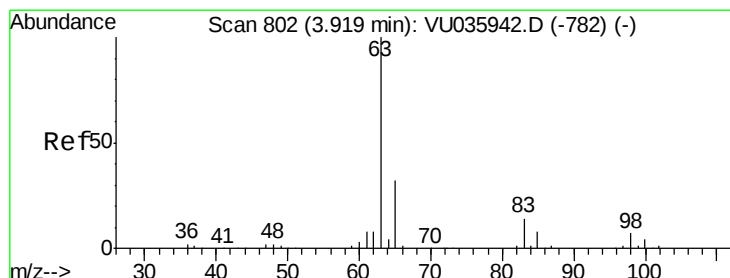
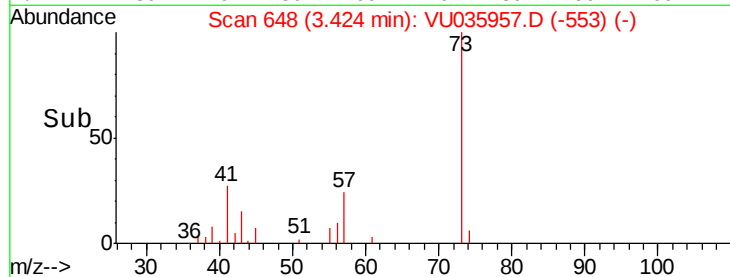
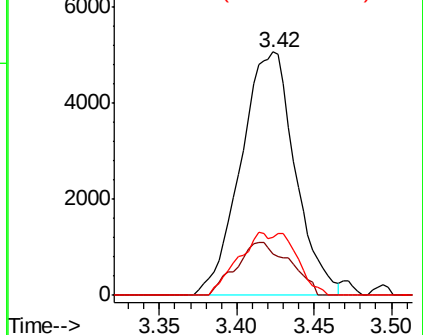
#17
Methvl tert-butvl Ether
Concen: 0.224 ug/L
RT: 3.42 min Scan# 648
Delta R.T. 0.01 min
Lab File: VU035957.D
Acq: 03 Dec 2019 19:09

Instrument :
MSVOA_U
ClientSampleId :
BFE26

Tot Ion: 73 Resp: 12339
Ion Ratio Lower Upper
73 100
43 21.6 15.9 23.9
57 14.8 18.8 28.2#

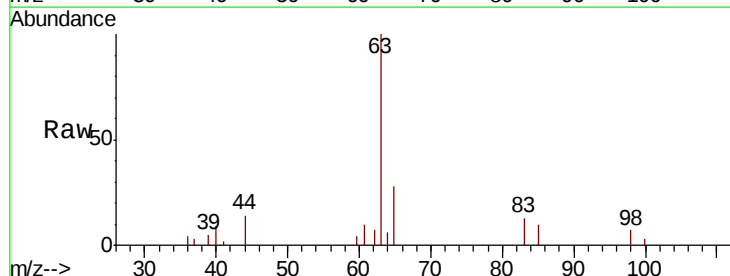


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

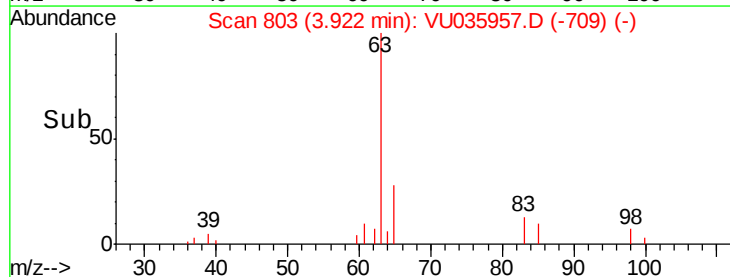
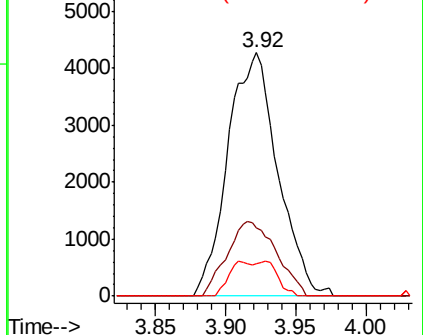


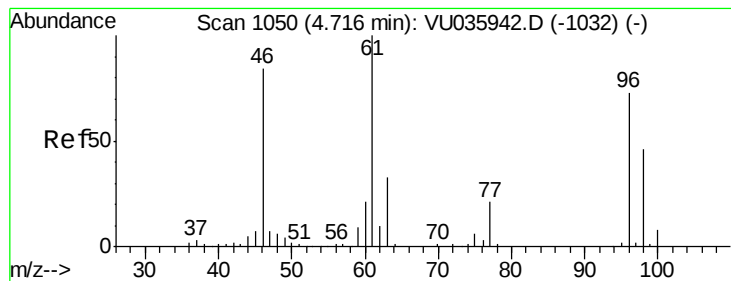
#19
1,1-Dichloroethane
Concen: 0.217 ug/L
RT: 3.92 min Scan# 803
Delta R.T. 0.00 min
Lab File: VU035957.D
Acq: 03 Dec 2019 19:09

Tgt Ion: 63 Resp: 10562
Ion Ratio Lower Upper
63 100
65 28.1 22.4 41.6
83 13.4 9.8 18.2



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 65.10 (64.80 to 65.80): VU0
Ion 83.05 (82.75 to 83.75): VU0





#22

cis-1,2-Dichloroethene

Concen: 3.764 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VU035957.D

Acq: 03 Dec 2019 19:09

Instrument :

MSVOA_U

ClientSampled :

BFE26

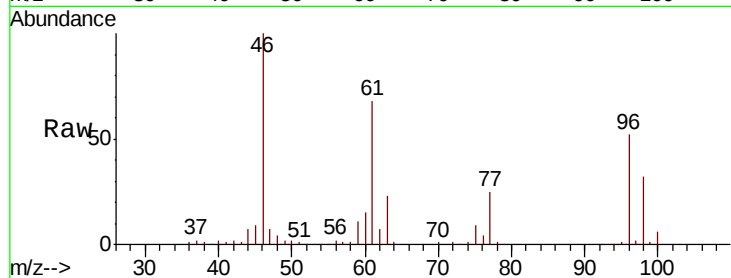
Tot Ion: 96 Resp: 99214

Ion Ratio Lower Upper

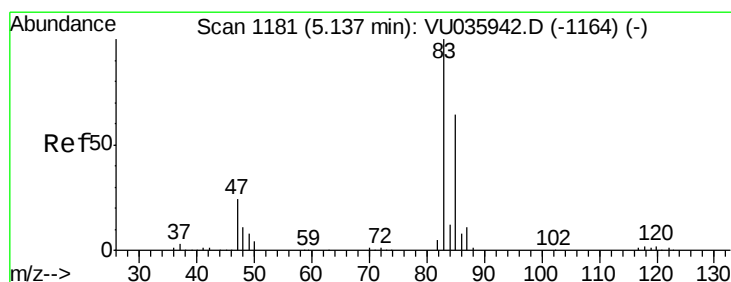
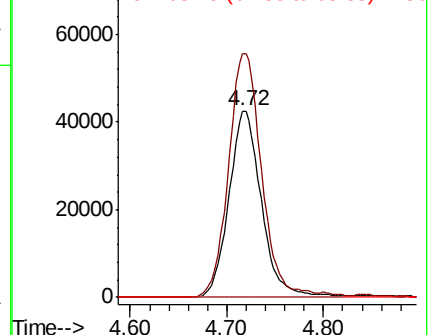
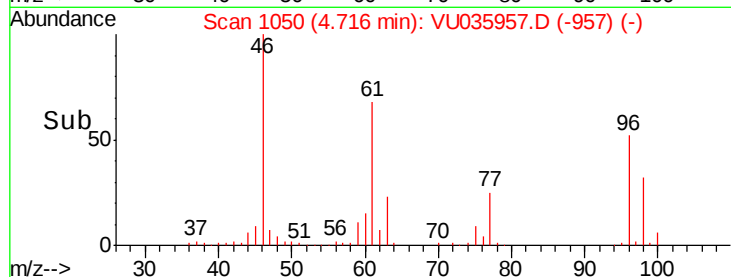
96 100

61 130.5 95.7 177.7

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU035957.D (-957) (-)



#25

Chloroform

Concen: 0.963 ug/L

RT: 5.14 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VU035957.D

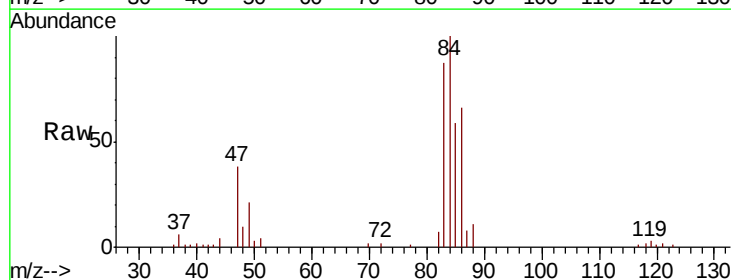
Acq: 03 Dec 2019 19:09

Tgt Ion: 83 Resp: 47389

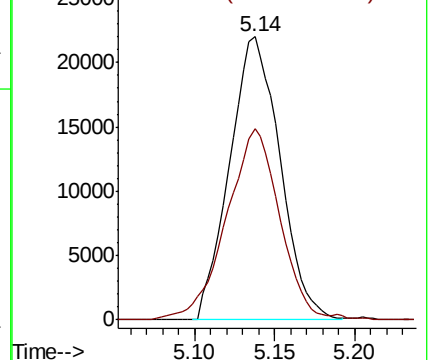
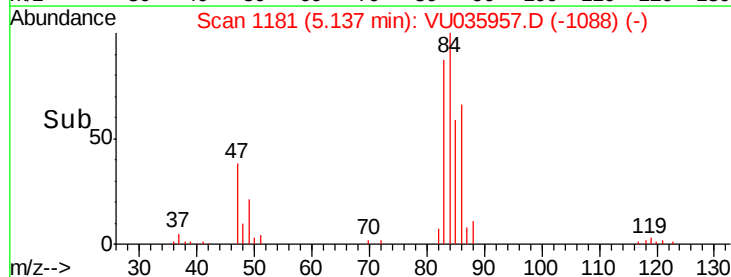
Ion Ratio Lower Upper

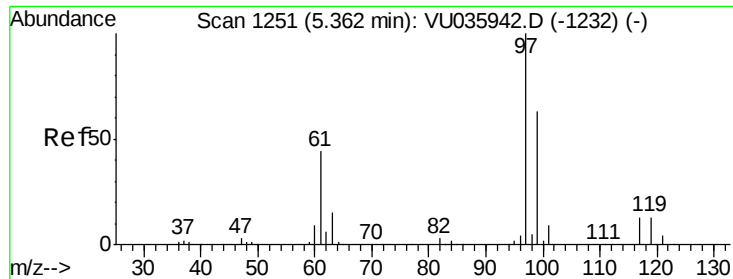
83 100

85 67.4 45.4 84.2



Abundance Ion 83.05 (82.75 to 83.75): VU035957.D (-1088) (-)

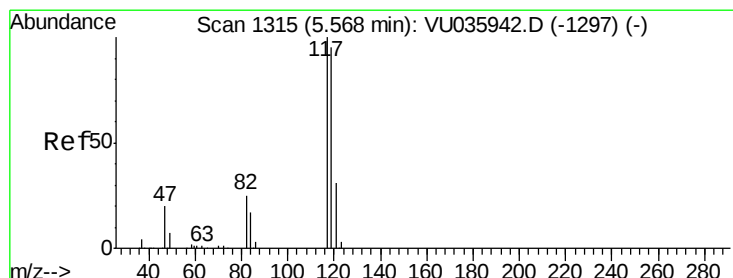
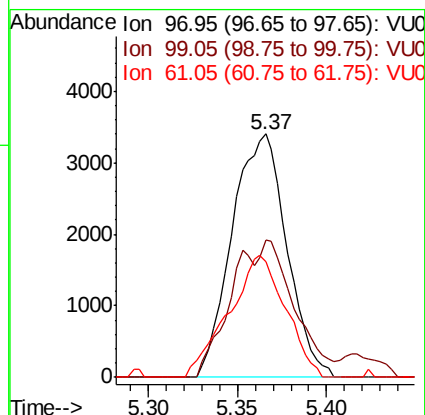
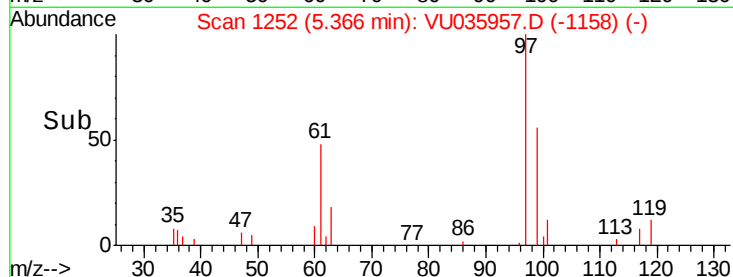
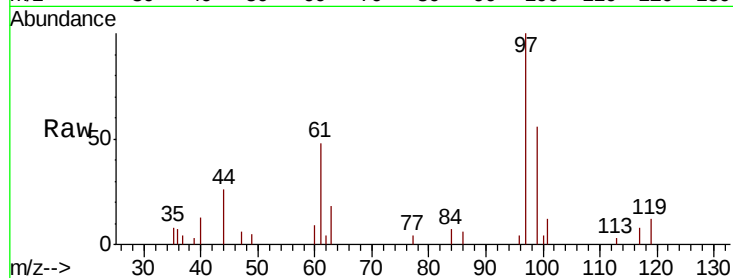




#29
 1,1,1-Trichloroethane
 Concen: 0.170 ug/L
 RT: 5.37 min Scan# 1252
 Delta R.T. 0.00 min
 Lab File: VU035957.D
 Acq: 03 Dec 2019 19:09

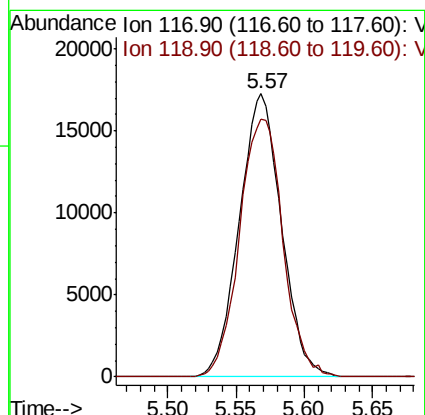
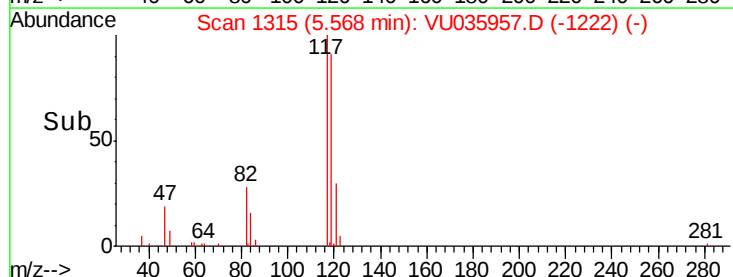
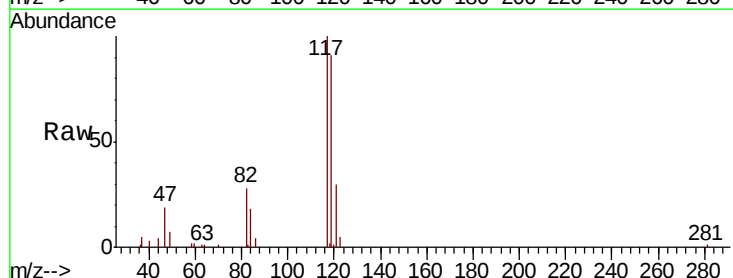
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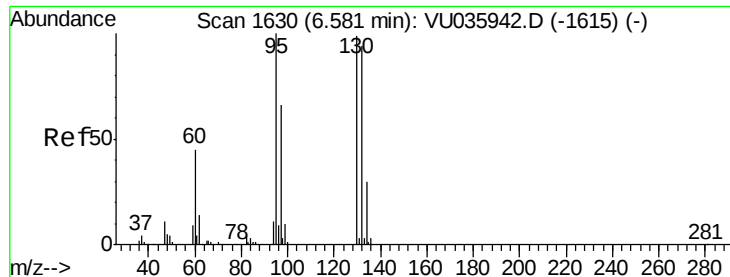
Tot Ion: 97 Resp: 7255
 Ion Ratio Lower Upper
 97 100
 99 37.4 51.8 77.8#
 61 51.8 37.6 56.4



#31
 Carbon tetrachloride
 Concen: 0.976 ug/L
 RT: 5.57 min Scan# 1315
 Delta R.T. 0.00 min
 Lab File: VU035957.D
 Acq: 03 Dec 2019 19:09

Tgt Ion: 117 Resp: 36957
 Ion Ratio Lower Upper
 117 100
 119 93.9 76.9 115.3





#34

Trichloroethene

Concen: 21.268 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU035957.D

Acq: 03 Dec 2019 19:09

Instrument :

MSVOA_U

ClientSampleId :

BFE26

Tot Ion: 95 Resp: 597263

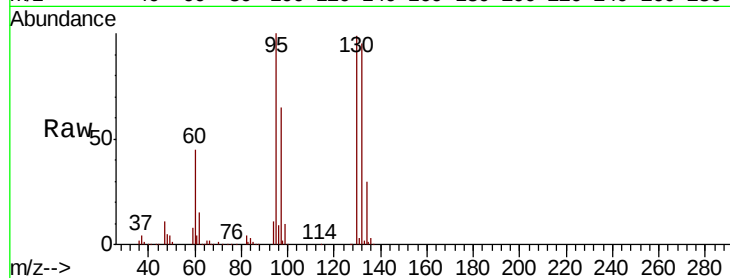
Ion Ratio Lower Upper

95 100

97 64.8 46.3 85.9

132 95.1 65.7 122.1

130 98.5 69.2 128.6

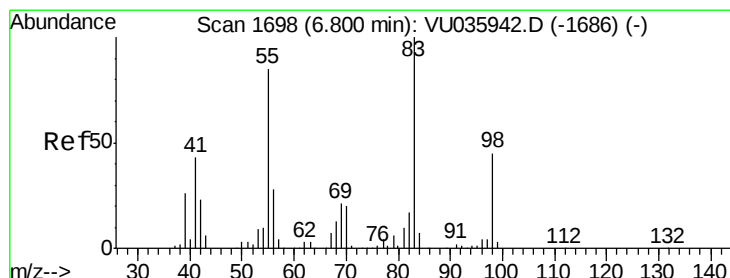
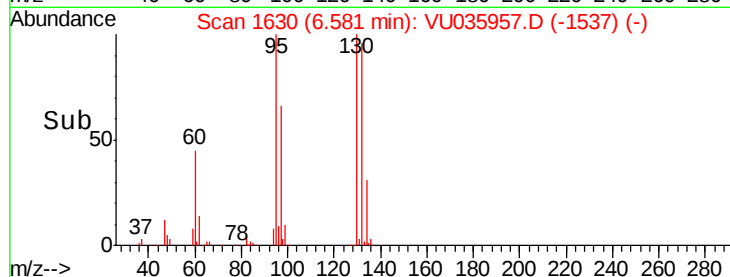
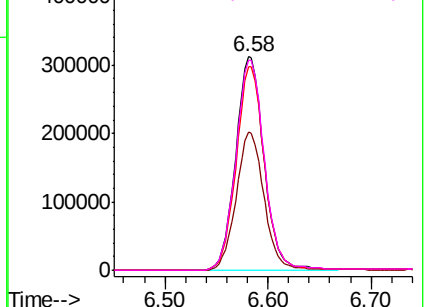


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.807 ug/L

RT: 6.73 min Scan# 1676

Delta R.T. -0.07 min

Lab File: VU035957.D

Acq: 03 Dec 2019 19:09

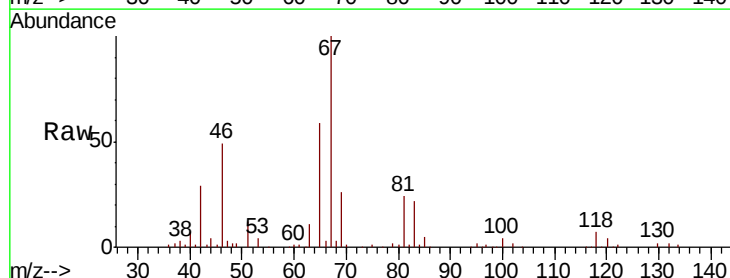
Tgt Ion: 83 Resp: 33979

Ion Ratio Lower Upper

83 100

55 0.5 67.4 101.0#

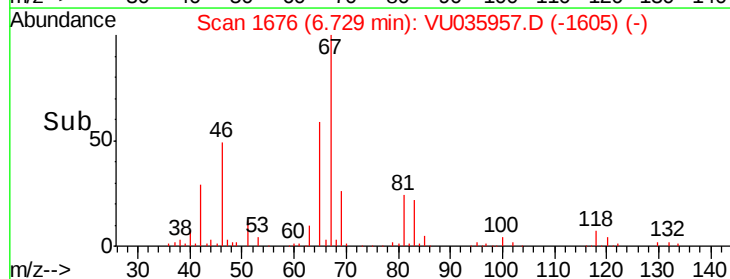
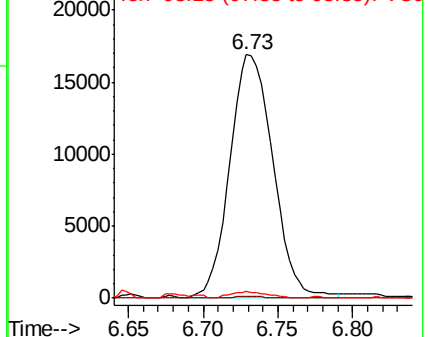
98 2.2 34.6 52.0#

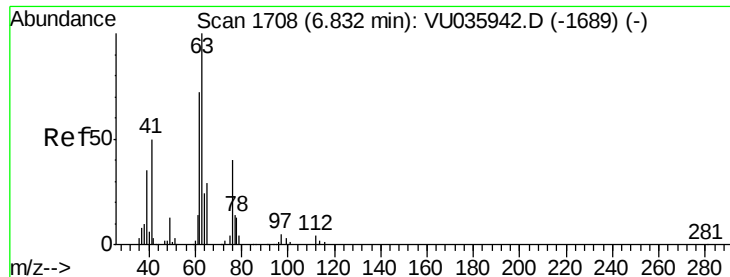


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

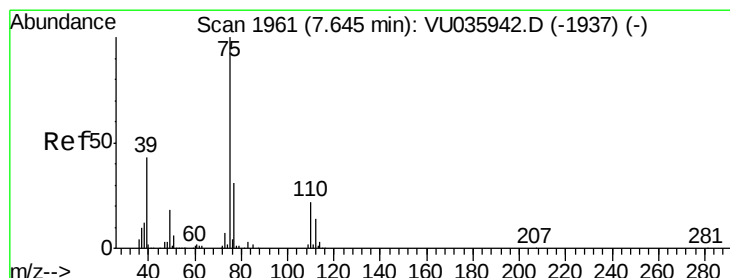
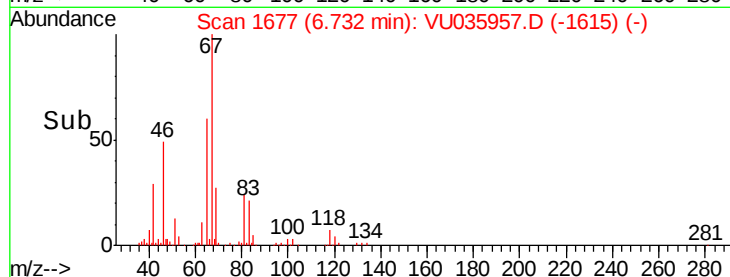
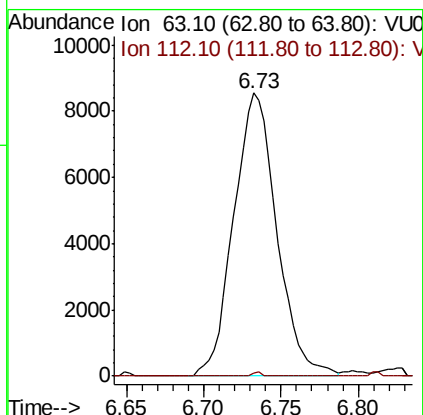
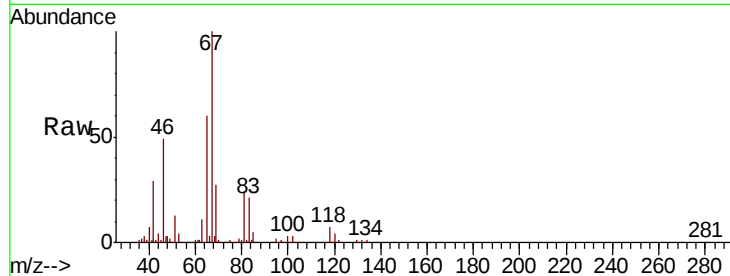




#37
 1,2-Dichloropropane
 Concen: 0.550 ug/L
 RT: 6.73 min Scan# 1677
 Delta R.T. -0.10 min
 Lab File: VU035957.D
 Acq: 03 Dec 2019 19:09

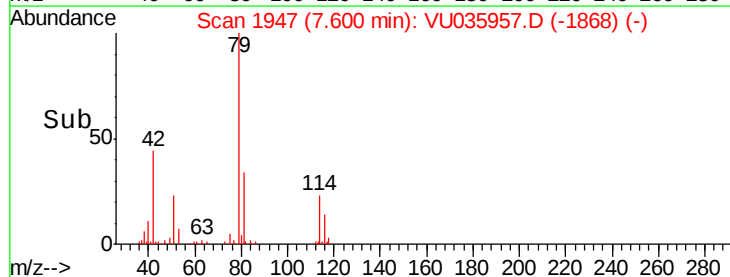
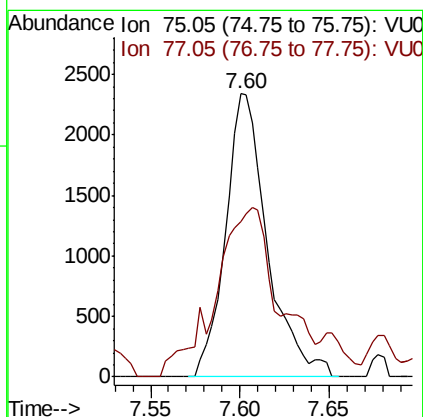
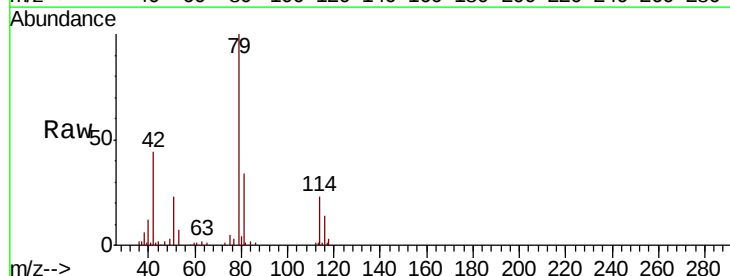
Instrument :
 MSVOA_U
 ClientSampleId :
 BFE26

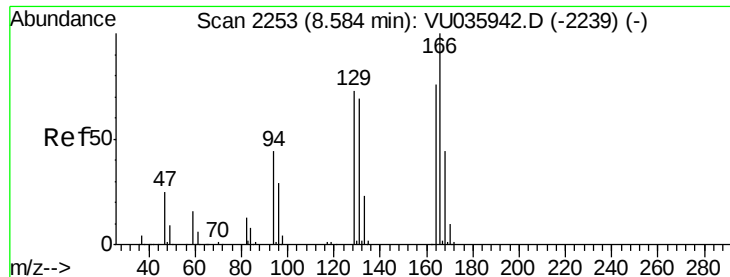
Tot Ion: 63 Resp: 16535
 Ion Ratio Lower Upper
 63 100
 112 0.3 3.3 4.9#



#39
 cis-1,3-Dichloropropene
 Concen: 0.095 ug/L
 RT: 7.60 min Scan# 1947
 Delta R.T. -0.04 min
 Lab File: VU035957.D
 Acq: 03 Dec 2019 19:09

Tgt Ion: 75 Resp: 3806
 Ion Ratio Lower Upper
 75 100
 77 54.8 21.9 40.7#





#47

Tetrachloroethene

Concen: 5.497 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. 0.00 min

Lab File: VU035957.D

Acq: 03 Dec 2019 19:09

Instrument :

MSVOA_U

ClientSampleId :

BFE26

Tot Ion:164 Resp: 125459

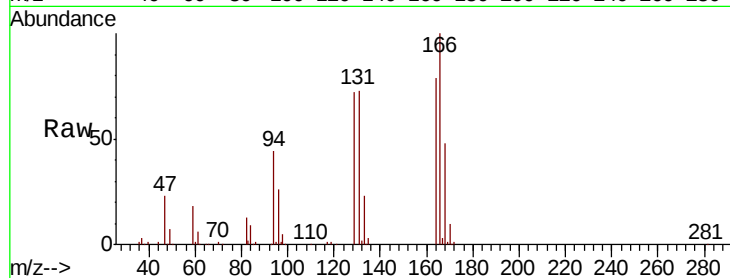
Ion Ratio Lower Upper

164 100

129 91.1 67.9 126.1

131 92.9 64.1 119.1

166 126.6 92.6 172.0

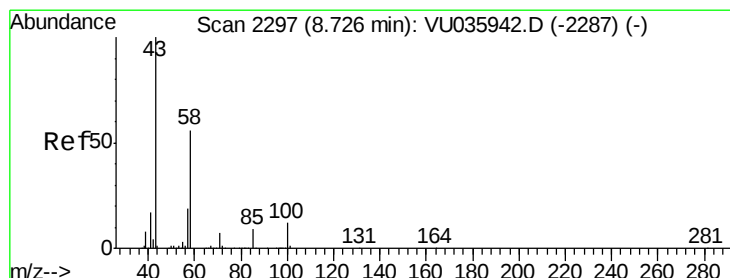
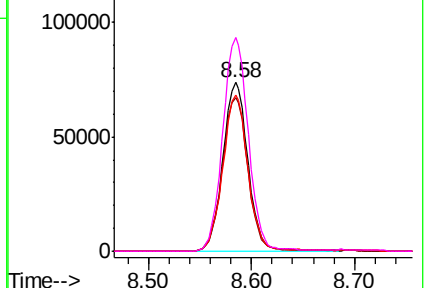
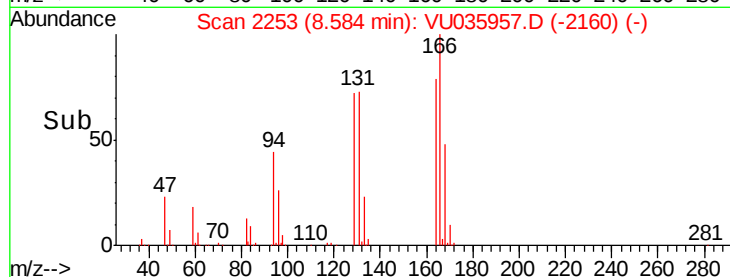


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#48

2-Hexanone

Concen: 2.267 ug/L

RT: 8.68 min Scan# 2283

Delta R.T. -0.04 min

Lab File: VU035957.D

Acq: 03 Dec 2019 19:09

Tgt Ion: 43 Resp: 29600

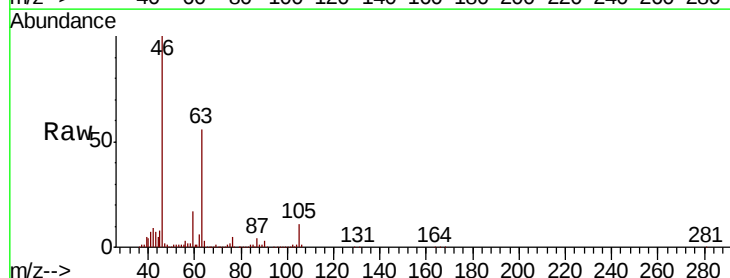
Ion Ratio Lower Upper

43 100

58 37.6 45.4 68.2#

57 39.2 14.9 22.3#

100 3.4 8.6 13.0#

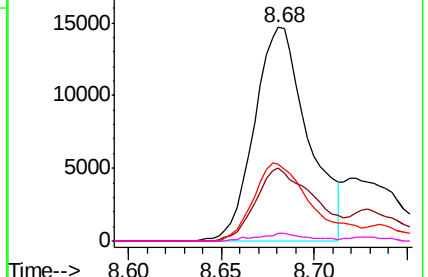
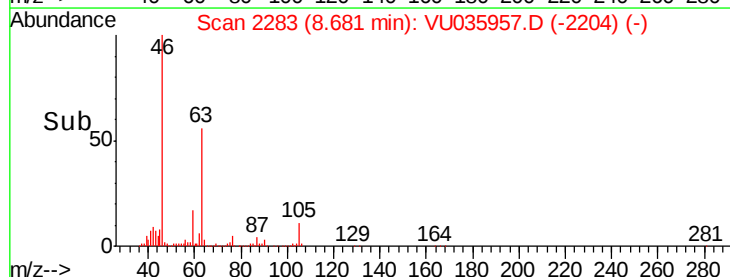


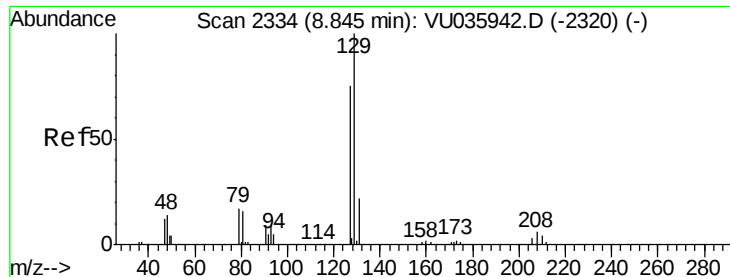
Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0





#49

Dibromochloromethane

Concen: 4.512 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. -0.26 min

Lab File: VU035957.D

Acq: 03 Dec 2019 19:09

Instrument :

MSVOA_U

ClientSampleId :

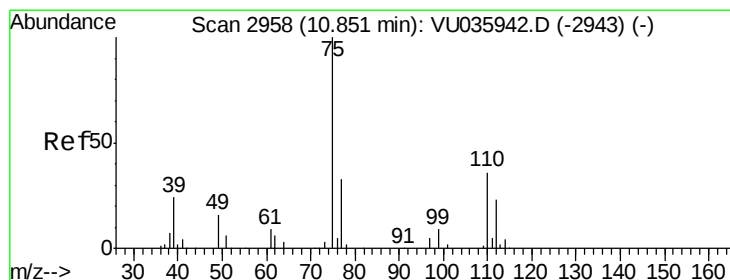
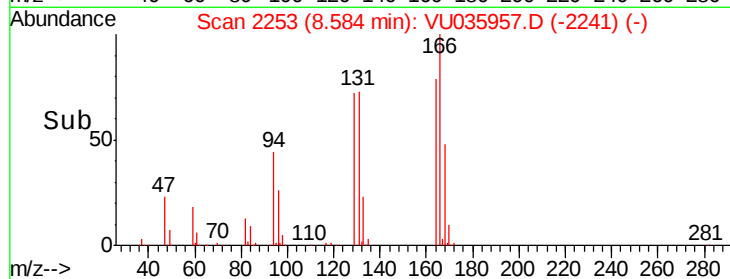
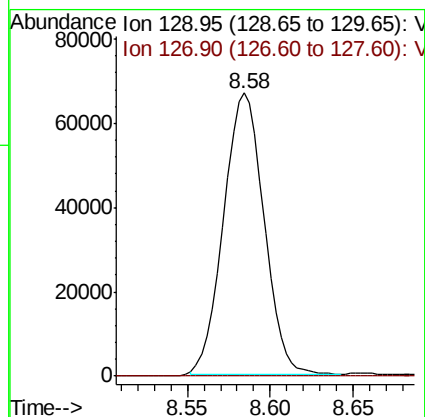
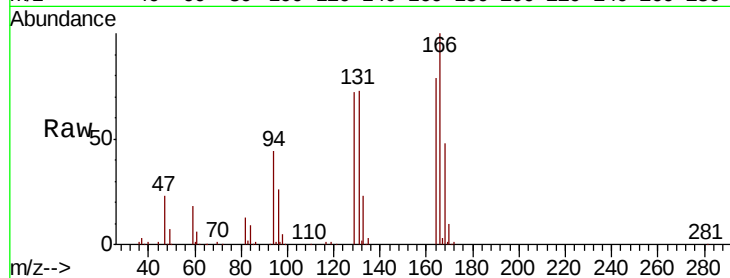
BFE26

Tot Ion:129 Resp: 112626

Ion Ratio Lower Upper

129 100

127 0.0 52.8 98.0#



#59

1,2,3-Trichloropropane

Concen: 0.730 ug/L

RT: 11.84 min Scan# 3266

Delta R.T. 0.99 min

Lab File: VU035957.D

Acq: 03 Dec 2019 19:09

Tgt Ion: 75 Resp: 14265

Ion Ratio Lower Upper

75 100

77 37.3 26.6 39.8

