

Data File : VU035971.D
Acq On : 04 Dec 2019 14:55
Operator : JC/SP
Sample : K6105-04DL 20X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFE24DL

Quant Time: Dec 05 03:58:32 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120319WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Dec 05 03:54:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	297601	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	320402	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	104768	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	146191	4.31	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	86.20%
7) Chloroethane-d5	1.93	69	122324	4.50	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.00%
11) 1,1-Dichloroethene-d2	2.59	63	170156	3.49	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	69.80%
20) 2-Butanone-d5	4.70	46	282051	46.95	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	93.90%
24) Chloroform-d	5.11	84	220138	4.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.60%
26) 1,2-Dichloroethane-d4	5.75	65	115850	4.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.00%
32) Benzene-d6	5.77	84	423321	4.46	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.20%
36) 1,2-Dichloropropane-d6	6.73	67	137533	4.48	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	89.60%
41) Toluene-d8	7.93	98	348275	3.99	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	79.80%
43) trans-1,3-Dichloropropene-	8.21	79	51872	4.18	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	83.60%
46) 2-Hexanone-d5	8.68	63	211537	43.34	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	86.68%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	115214	4.46	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	89.20%
64) 1,2-Dichlorobenzene-d4	12.22	152	110829	5.12	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	102.40%

Target Compounds

					Qvalue
8) Chloroethane	1.95	64	3691	0.167 ug/L #	68
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	4094	0.179 ug/L #	66
12) 1,1-Dichloroethene	2.61	96	13232	0.620 ug/L #	1
13) Acetone	2.68	43	9808	1.806 ug/L	99
14) Carbon disulfide	2.82	76	5357	0.072 ug/L	96
16) Methylene chloride	3.08	84	7723	0.234 ug/L	96
17) Methyl tert-butyl Ether	3.41	73	5625	0.113 ug/L	92
18) trans-1,2-Dichloroethene	3.39	96	1999	0.089 ug/L #	61
19) 1,1-Dichloroethane	3.92	63	4990	0.113 ug/L	95
22) cis-1,2-Dichloroethene	4.72	96	40529	1.699 ug/L	94
25) Chloroform	5.14	83	21212	0.476 ug/L	99
29) 1,1,1-Trichloroethane	5.36	97	4718	0.122 ug/L	94
31) Carbon tetrachloride	5.57	117	9301	0.271 ug/L	94
34) Trichloroethene	6.58	95	252160	9.896 ug/L	97
47) Tetrachloroethene	8.58	164	46780	2.259 ug/L	98
48) 2-Hexanone	8.68	43	25791	2.177 ug/L #	69
51) Chlorobenzene	9.48	112	5170	0.079 ug/L	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU120419\
Quantitation Report (Not Reviewed)

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Instrument :
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Quant Time: Dec 05 03:58:32 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120319WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Dec 05 03:54:31 2019
Response via : Initial Calibration

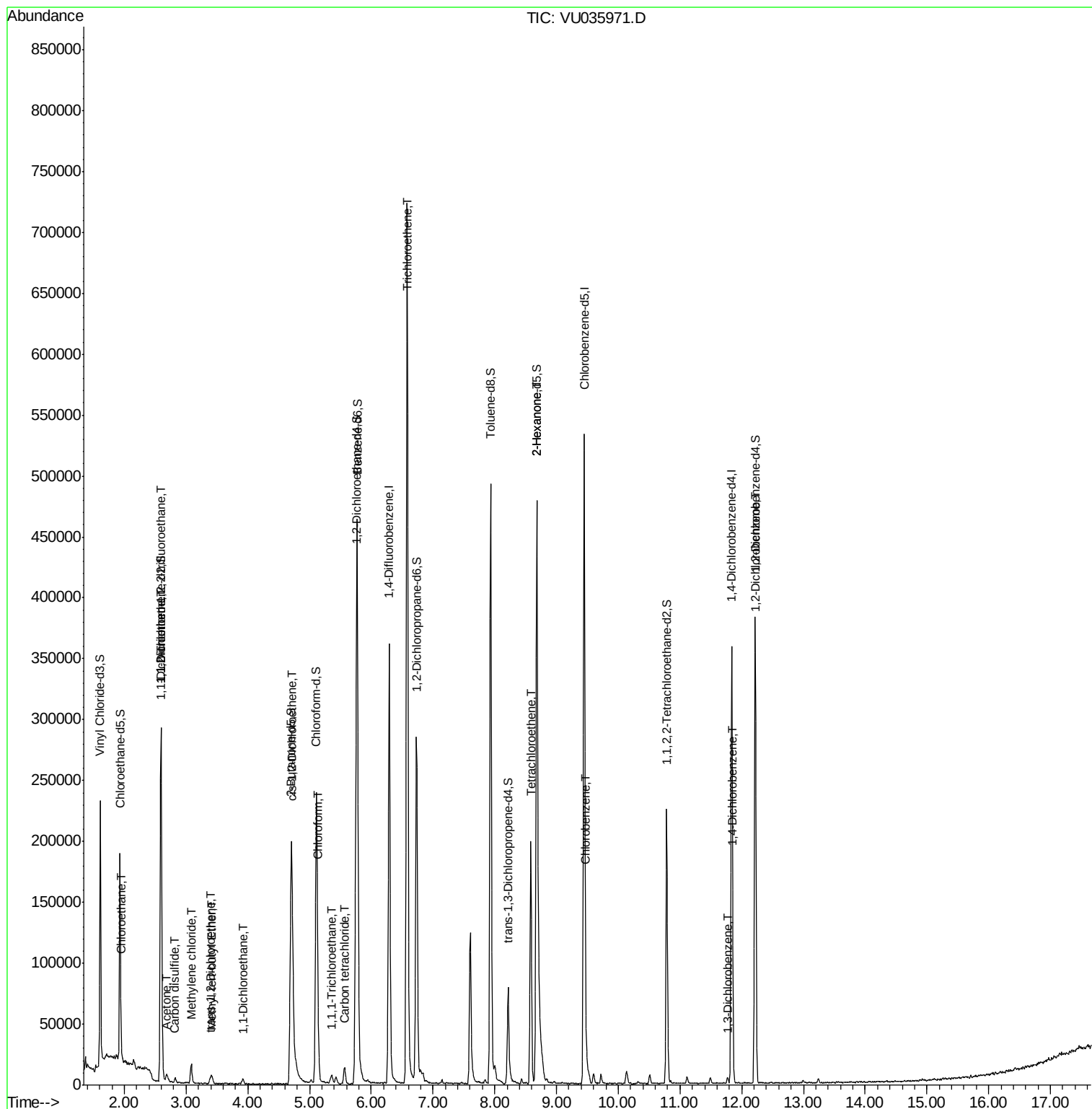
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) 1,3-Dichlorobenzene	11.77	146	2331	0.067	ug/L	92
63) 1,4-Dichlorobenzene	11.86	146	3310	0.096	ug/L	95
65) 1,2-Dichlorobenzene	12.23	146	3005	0.090	ug/L #	86

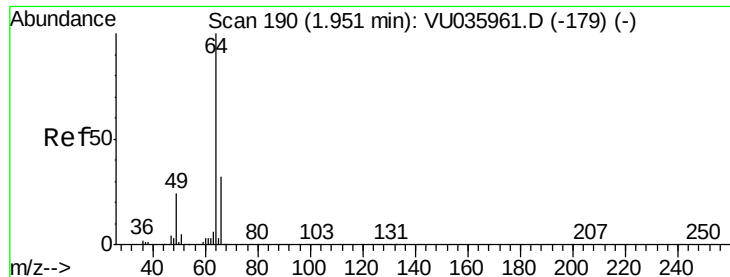
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Dec 05 03:54:31 2019
Response via : Initial Calibration





#8

Chloroethane

Concen: 0.167 ug/L

RT: 1.95 min Scan# 191

Delta R.T. 0.00 min

Lab File: VU035971.D

Acq: 04 Dec 2019 14:55

Instrument :

MSVOA_U

ClientSampleId :

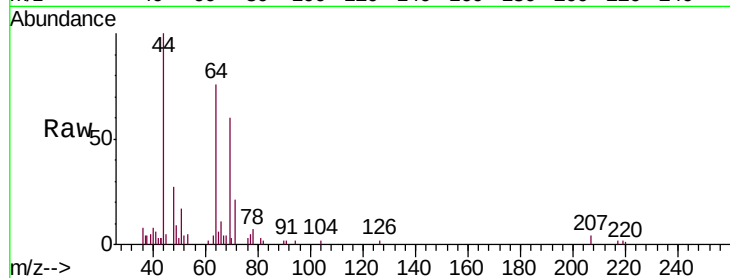
BFE24DL

Tgt Ion: 64 Resp: 3691

Ion Ratio Lower Upper

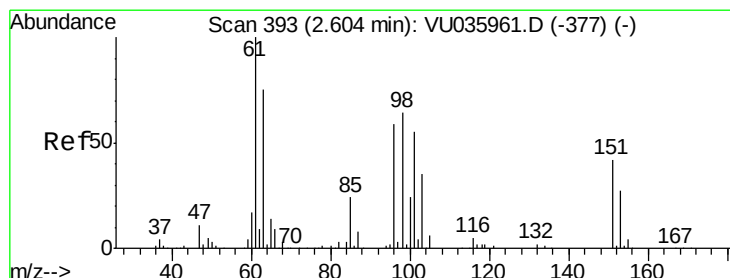
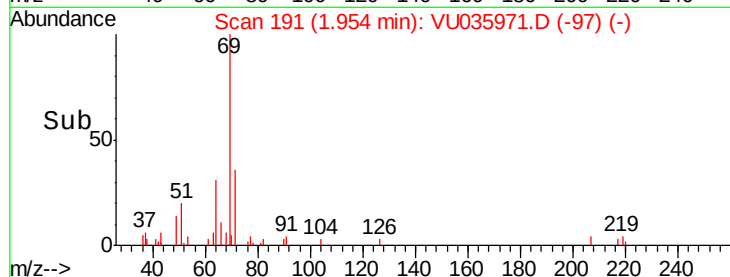
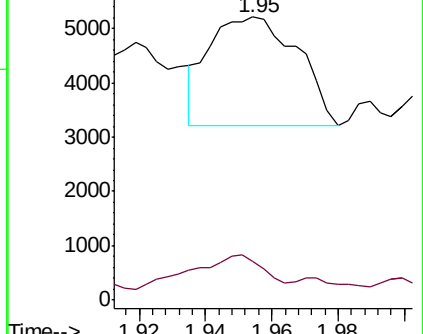
64 100

66 13.9 22.0 40.8#



Abundance Ion 64.10 (63.80 to 64.80): VU035971.D (-179) (-)

Ion 66.05 (65.75 to 66.75): VU035971.D (-179) (-)



#10

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

Concen: 0.179 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU035971.D

Acq: 04 Dec 2019 14:55

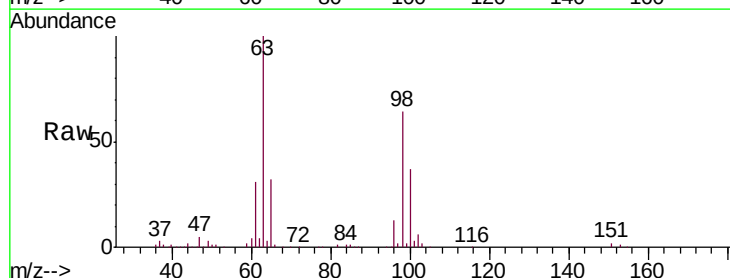
Tgt Ion: 101 Resp: 4094

Ion Ratio Lower Upper

101 100

85 13.9 35.5 53.3#

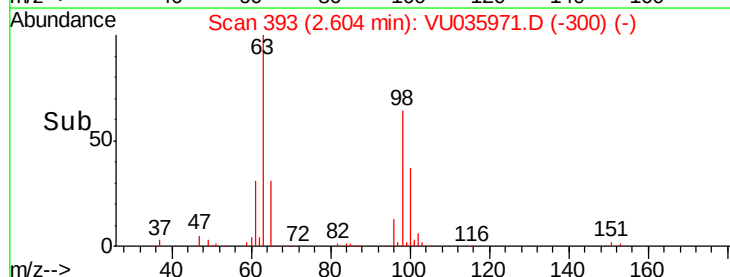
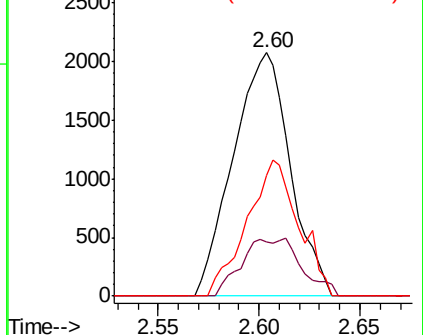
151 50.7 57.5 86.3#

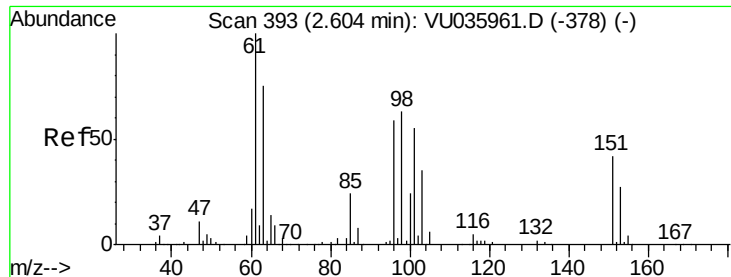


Abundance Ion 101.00 (100.70 to 101.70): VU035971.D (-377) (-)

Ion 85.00 (84.70 to 85.70): VU035971.D (-377) (-)

Ion 151.00 (150.70 to 151.70): VU035971.D (-377) (-)

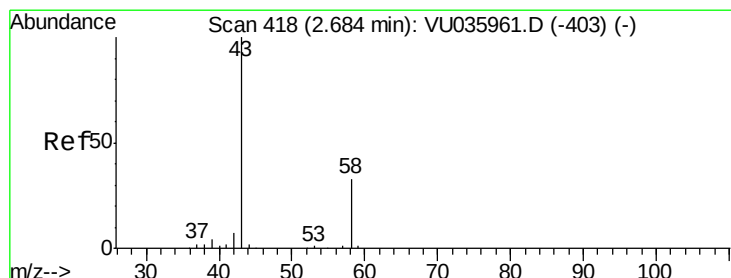
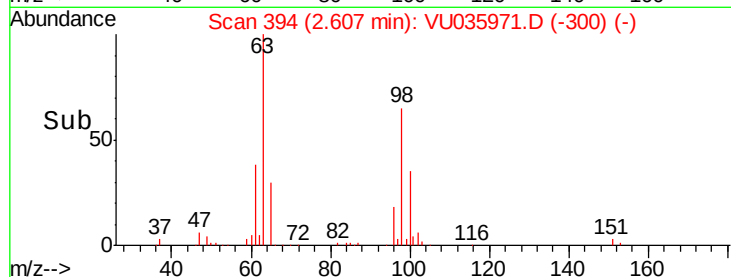
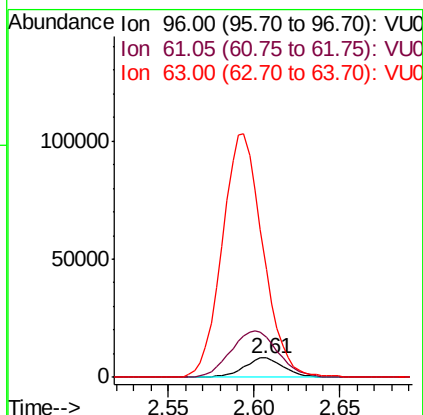
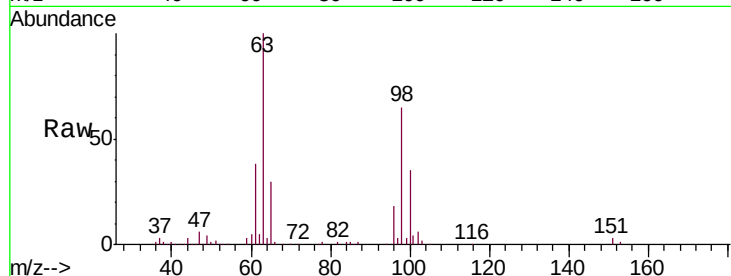




#12
 1,1-Dichloroethene
 Concen: 0.620 ug/L
 RT: 2.61 min Scan# 394
 Delta R.T. 0.00 min
 Lab File: VU035971.D
 Acq: 04 Dec 2019 14:55

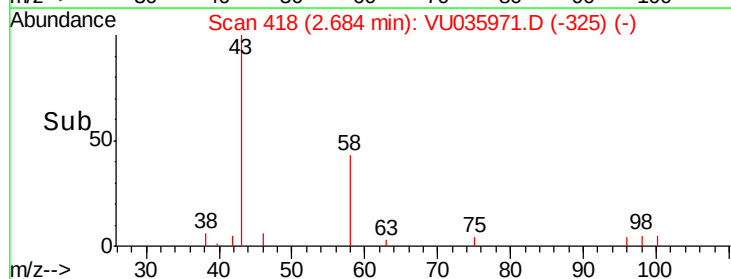
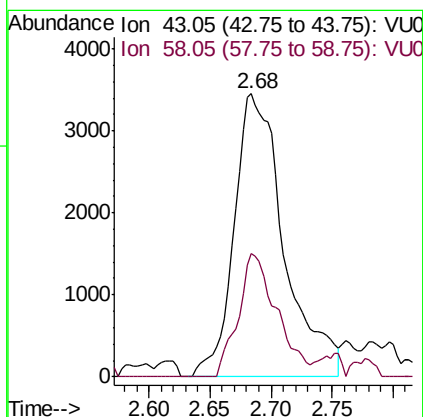
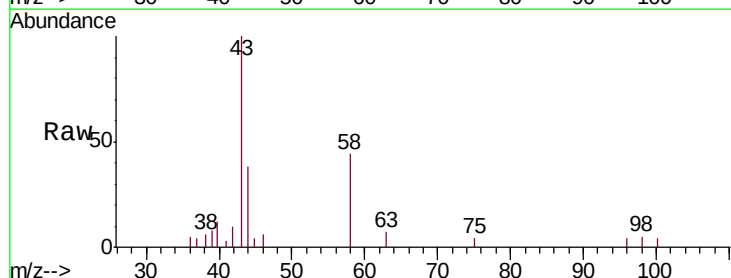
Instrument :
 MSVOA_U
 ClientSampleId :
 BFE24DL

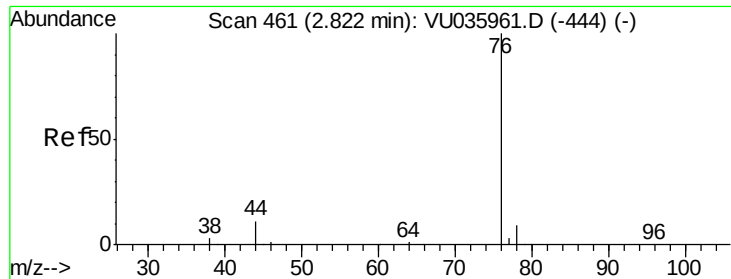
Tgt Ion: 96 Resp: 13232
 Ion Ratio Lower Upper
 96 100
 61 208.6 127.1 236.1
 63 552.4 86.0 159.8#



#13
 Acetone
 Concen: 1.806 ug/L
 RT: 2.68 min Scan# 418
 Delta R.T. -0.00 min
 Lab File: VU035971.D
 Acq: 04 Dec 2019 14:55

Tgt Ion: 43 Resp: 9808
 Ion Ratio Lower Upper
 43 100
 58 33.5 0.0 68.6





#14

Carbon disulfide

Concen: 0.072 ug/L

RT: 2.82 min Scan# 461

Delta R.T. -0.00 min

Lab File: VU035971.D

Acq: 04 Dec 2019 14:55

Instrument :

MSVOA_U

ClientSampleId :

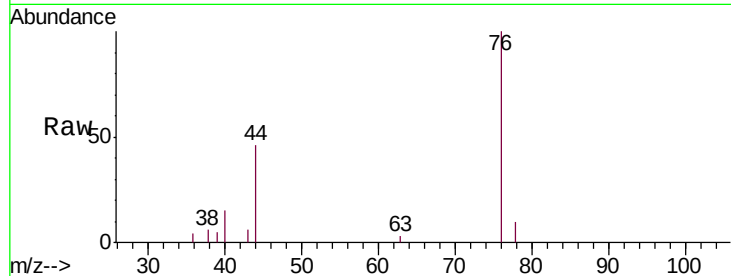
BFE24DL

Tgt Ion: 76 Resp: 5357

Ion Ratio Lower Upper

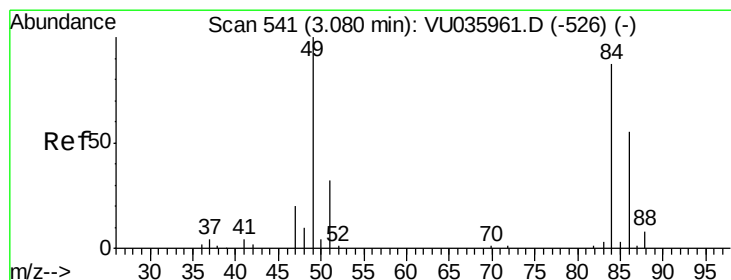
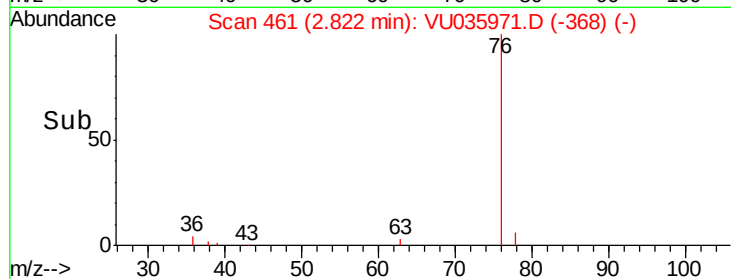
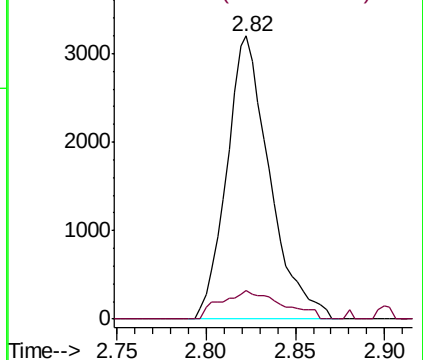
76 100

78 9.9 6.9 10.3



Abundance Ion 76.05 (75.75 to 76.75): VU035971.D (-444) (-)

Ion 78.00 (77.70 to 78.70): VU035971.D (-444) (-)



#16

Methylene chloride

Concen: 0.234 ug/L

RT: 3.08 min Scan# 541

Delta R.T. -0.00 min

Lab File: VU035971.D

Acq: 04 Dec 2019 14:55

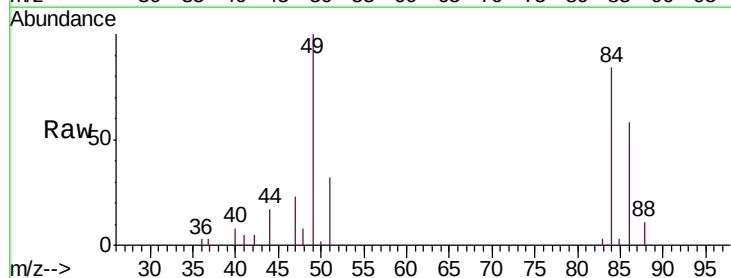
Tgt Ion: 84 Resp: 7723

Ion Ratio Lower Upper

84 100

86 68.5 44.7 82.9

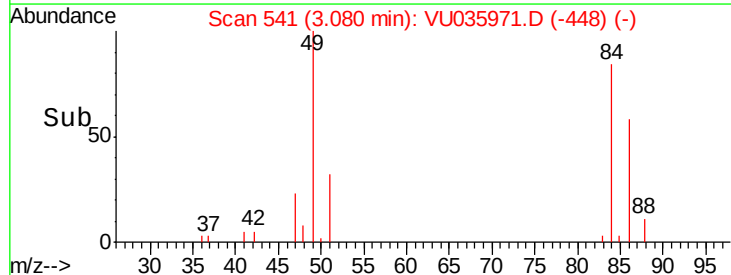
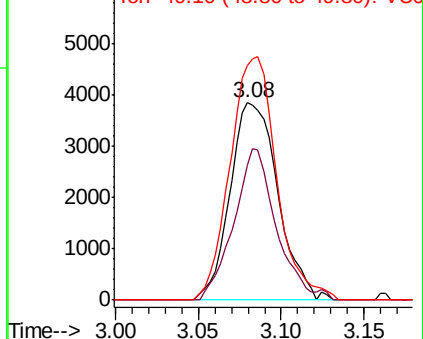
49 119.0 86.2 160.2

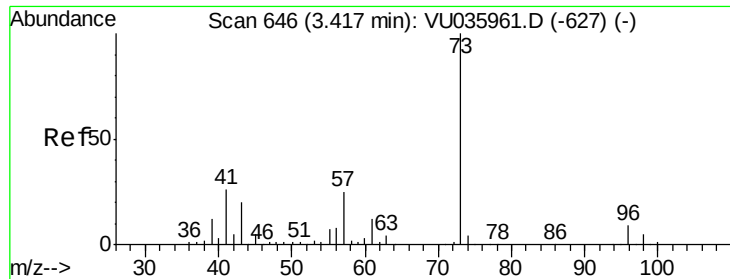


Abundance Ion 84.05 (83.75 to 84.75): VU035971.D (-448) (-)

Ion 86.00 (85.70 to 86.70): VU035971.D (-448) (-)

Ion 49.10 (48.80 to 49.80): VU035971.D (-448) (-)





#17

Methyl tert-butyl Ether

Concen: 0.113 ug/L

RT: 3.41 min Scan# 645

Delta R.T. -0.00 min

Lab File: VU035971.D

Acq: 04 Dec 2019 14:55

Instrument :

MSVOA_U

ClientSampleId :

BFE24DL

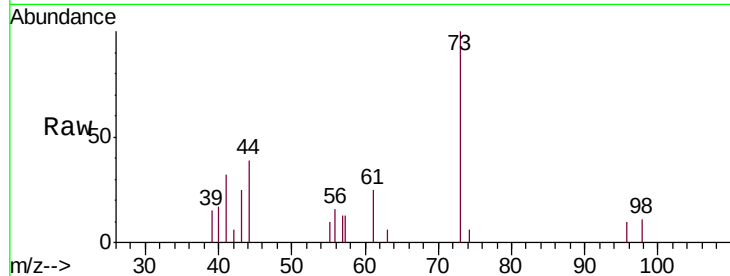
Tgt Ion: 73 Resp: 5625

Ion Ratio Lower Upper

73 100

43 23.1 15.9 23.9

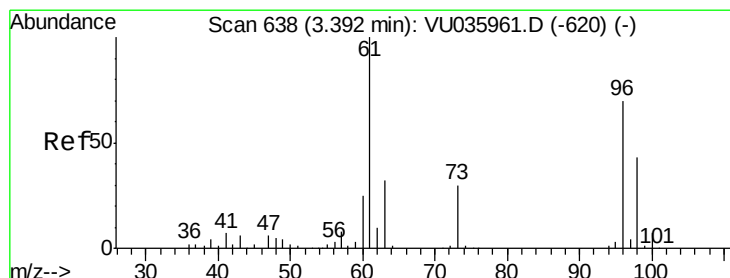
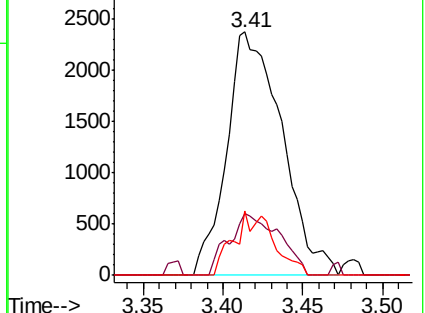
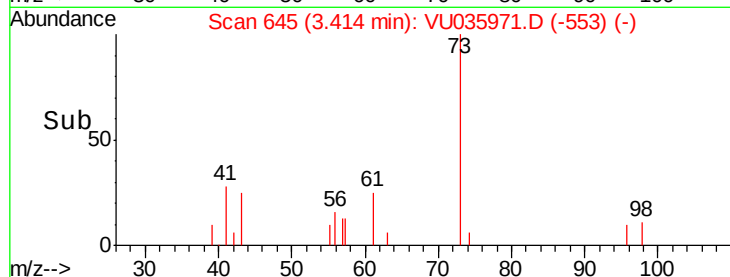
57 18.8 18.8 28.2



Abundance Ion 73.10 (72.80 to 73.80): VU035971.D (-627) (-)

Ion 43.05 (42.75 to 43.75): VU035971.D (-627) (-)

Ion 57.10 (56.80 to 57.80): VU035971.D (-627) (-)



#18

trans-1,2-Dichloroethene

Concen: 0.089 ug/L

RT: 3.39 min Scan# 636

Delta R.T. -0.01 min

Lab File: VU035971.D

Acq: 04 Dec 2019 14:55

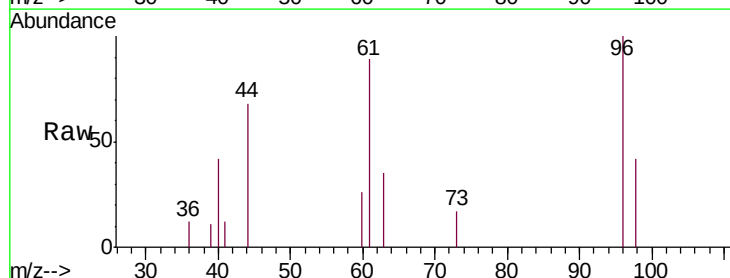
Tgt Ion: 96 Resp: 1999

Ion Ratio Lower Upper

96 100

61 89.4 101.2 187.8#

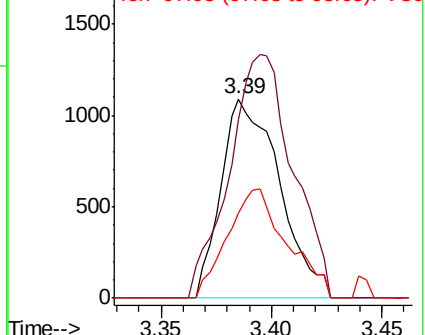
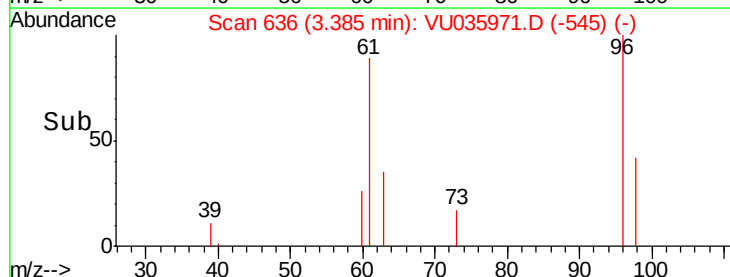
98 42.4 45.0 83.6#

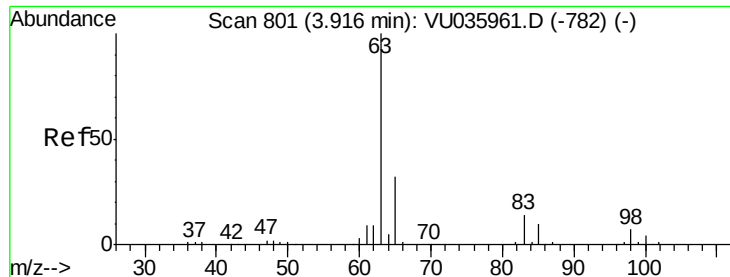


Abundance Ion 96.00 (95.70 to 96.70): VU035971.D (-620) (-)

Ion 61.05 (60.75 to 61.75): VU035971.D (-620) (-)

Ion 97.95 (97.65 to 98.65): VU035971.D (-620) (-)





#19

1,1-Dichloroethane

Concen: 0.113 ug/L

RT: 3.92 min Scan# 802

Delta R.T. 0.00 min

Lab File: VU035971.D

Acq: 04 Dec 2019 14:55

Instrument :

MSVOA_U

ClientSampled :

BFE24DL

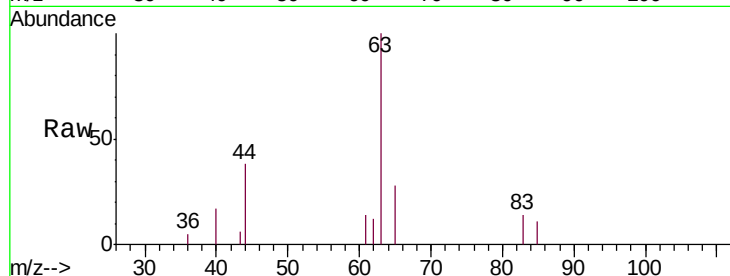
Tgt Ion: 63 Resp: 4990

Ion Ratio Lower Upper

63 100

65 27.8 22.4 41.6

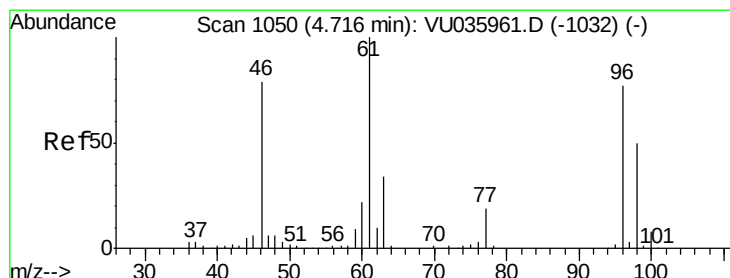
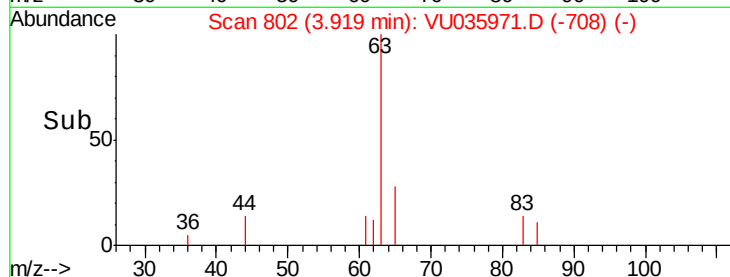
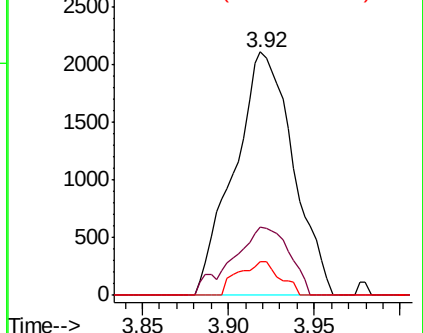
83 13.9 9.8 18.2



Abundance Ion 63.10 (62.80 to 63.80): VU035971.D (-782) (-)

Ion 65.10 (64.80 to 65.80): VU035971.D (-782) (-)

Ion 83.05 (82.75 to 83.75): VU035971.D (-782) (-)



#22

cis-1,2-Dichloroethene

Concen: 1.699 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VU035971.D

Acq: 04 Dec 2019 14:55

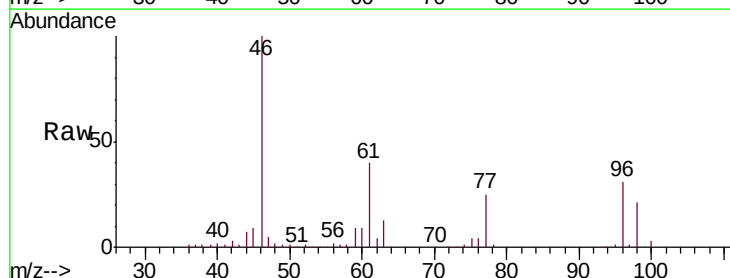
Tgt Ion: 96 Resp: 40529

Ion Ratio Lower Upper

96 100

61 129.6 95.7 177.7

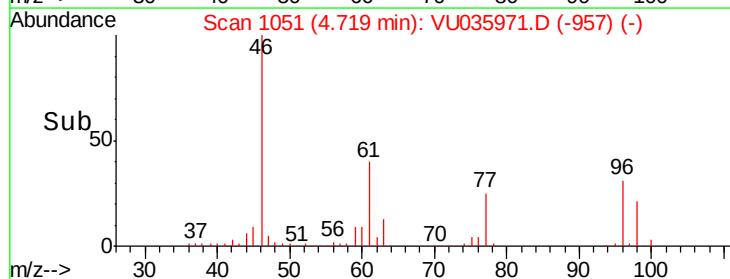
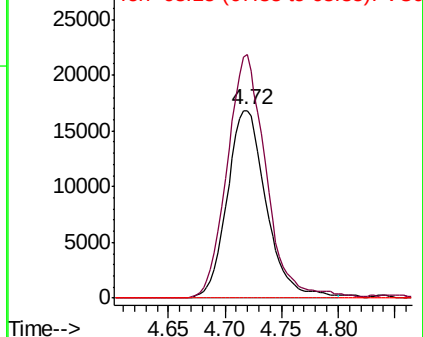
68 0.0 0.0 0.0

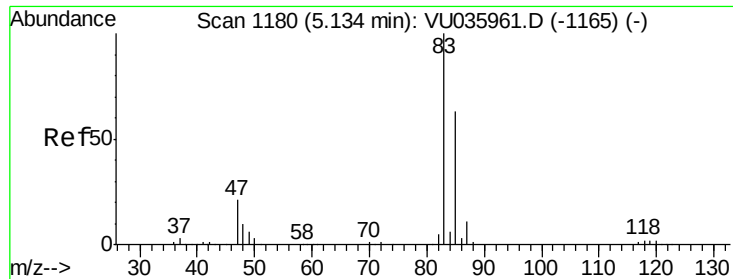


Abundance Ion 96.00 (95.70 to 96.70): VU035971.D (-1032) (-)

Ion 61.05 (60.75 to 61.75): VU035971.D (-1032) (-)

Ion 68.15 (67.85 to 68.85): VU035971.D (-1032) (-)

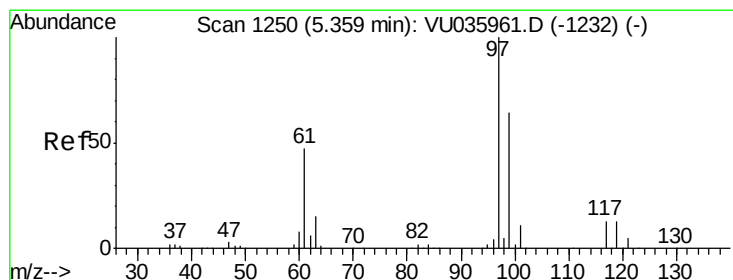
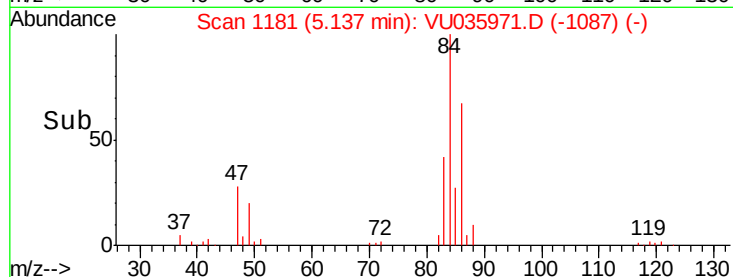
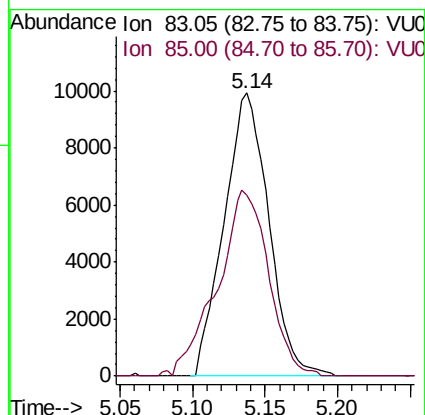
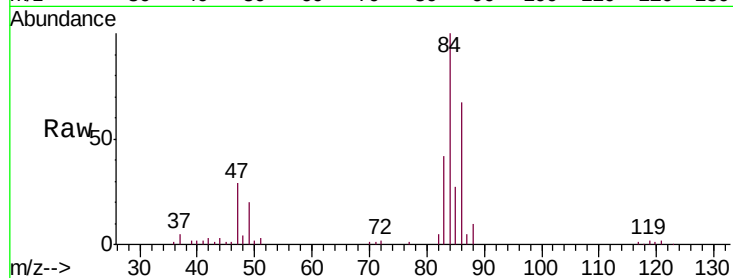




#25
Chloroform
Concen: 0.476 ug/L
RT: 5.14 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VU035971.D
Acq: 04 Dec 2019 14:55

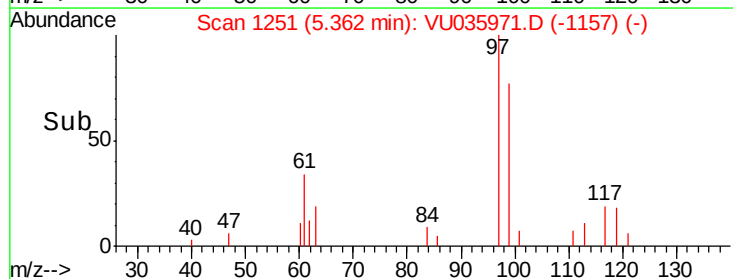
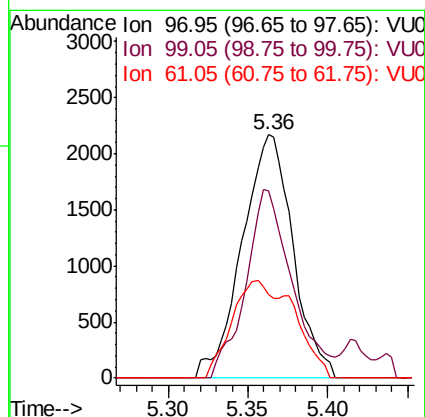
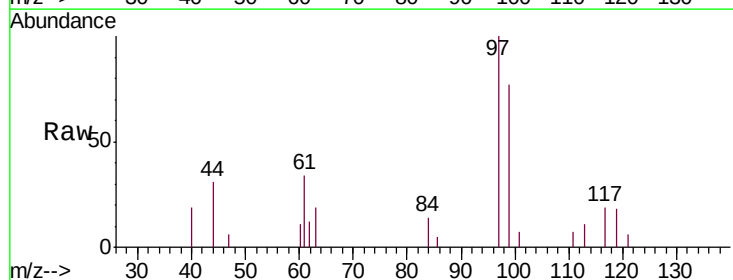
Instrument :
MSVOA_U
ClientSampled :
BFE24DL

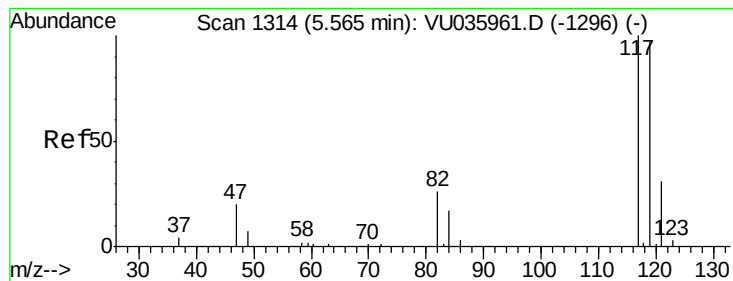
Tgt Ion: 83 Resp: 21212
Ion Ratio Lower Upper
83 100
85 64.1 45.4 84.2



#29
1,1,1-Trichloroethane
Concen: 0.122 ug/L
RT: 5.36 min Scan# 1251
Delta R.T. 0.00 min
Lab File: VU035971.D
Acq: 04 Dec 2019 14:55

Tgt Ion: 97 Resp: 4718
Ion Ratio Lower Upper
97 100
99 70.9 51.8 77.8
61 49.4 37.6 56.4





#31

Carbon tetrachloride

Concen: 0.271 ug/L

RT: 5.57 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VU035971.D

Acq: 04 Dec 2019 14:55

Instrument :

MSVOA_U

ClientSampleId :

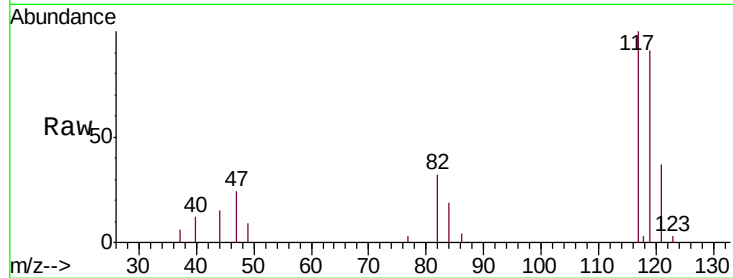
BFE24DL

Tgt Ion: 117 Resp: 9301

Ion Ratio Lower Upper

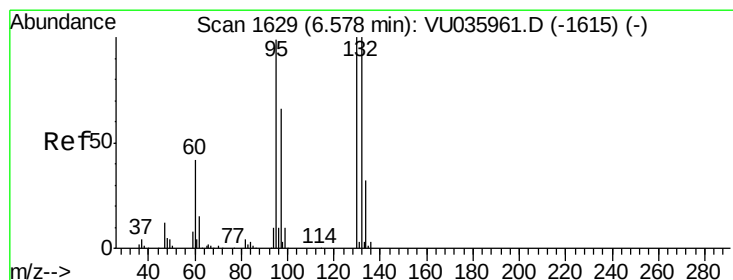
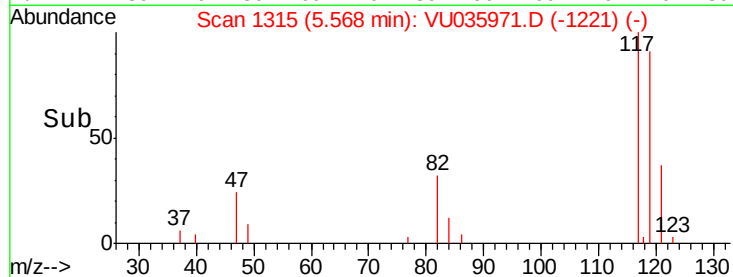
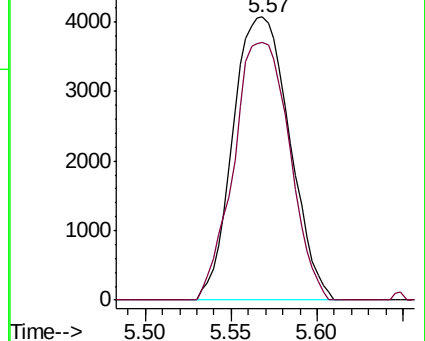
117 100

119 89.8 76.9 115.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#34

Trichloroethene

Concen: 9.896 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU035971.D

Acq: 04 Dec 2019 14:55

Tgt Ion: 95 Resp: 252160

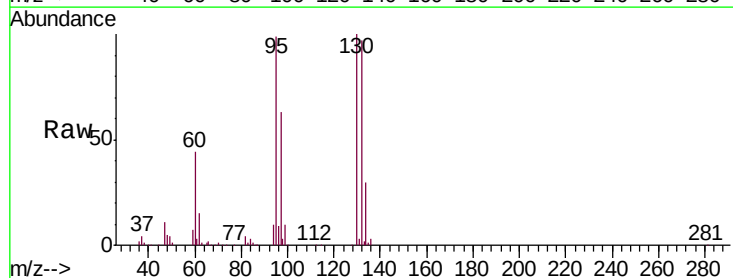
Ion Ratio Lower Upper

95 100

97 63.9 46.3 85.9

132 97.5 65.7 122.1

130 100.9 69.2 128.6

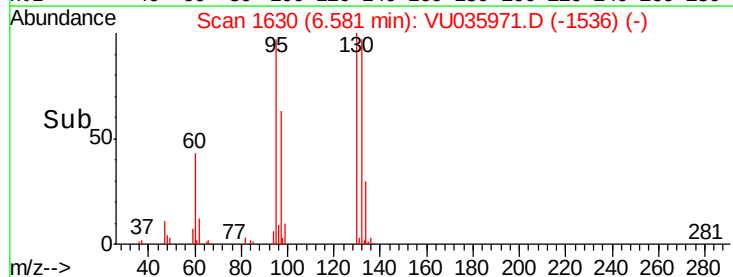
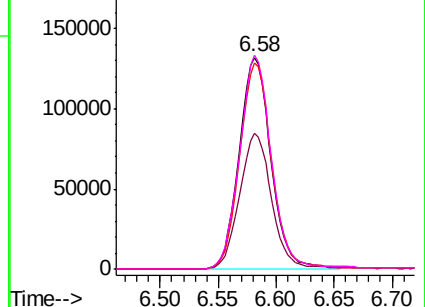


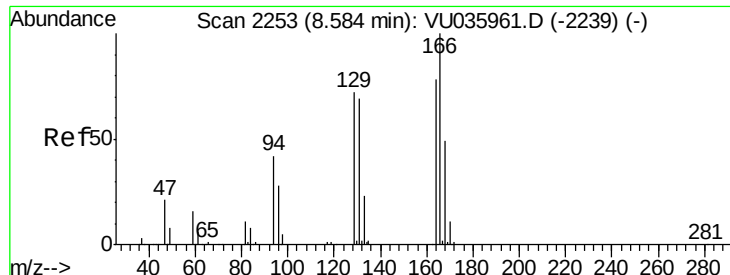
Abundance Ion 95.00 (94.70 to 95.70): VU0

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





#47

Tetrachloroethene

Concen: 2.259 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. -0.00 min

Lab File: VU035971.D

Acq: 04 Dec 2019 14:55

Instrument :

MSVOA_U

ClientSampleId :

BFE24DL

Tgt Ion:164 Resp: 46780

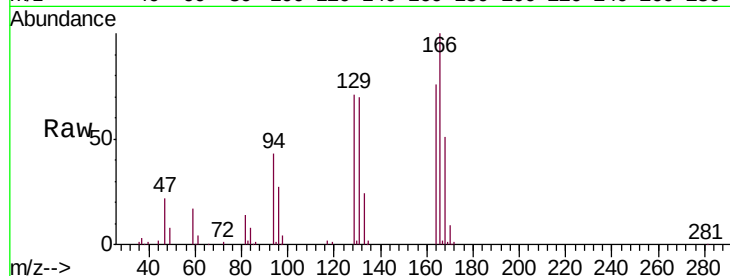
Ion Ratio Lower Upper

164 100

129 93.1 67.9 126.1

131 91.5 64.1 119.1

166 131.0 92.6 172.0

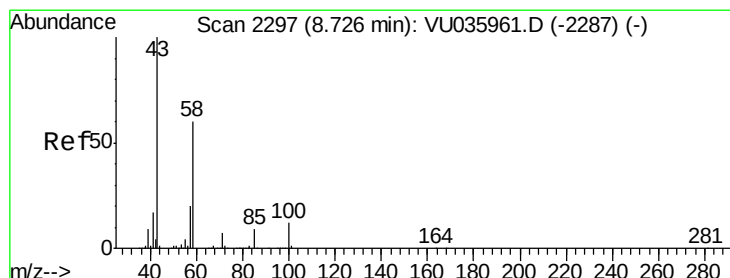
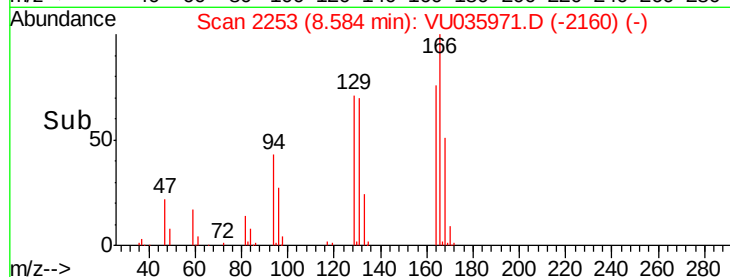
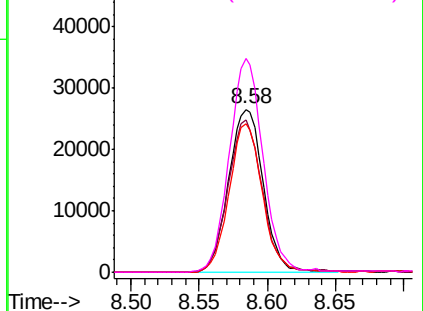


Abundance Ion 163.90 (163.60 to 164.60): V

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: 2.177 ug/L

RT: 8.68 min Scan# 2283

Delta R.T. -0.05 min

Lab File: VU035971.D

Acq: 04 Dec 2019 14:55

Tgt Ion: 43 Resp: 25791

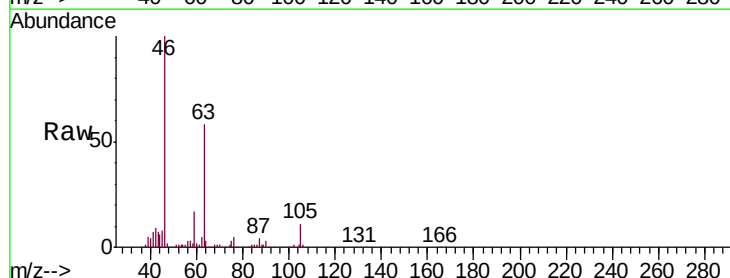
Ion Ratio Lower Upper

43 100

58 35.9 45.4 68.2#

57 36.8 14.9 22.3#

100 1.4 8.6 13.0#

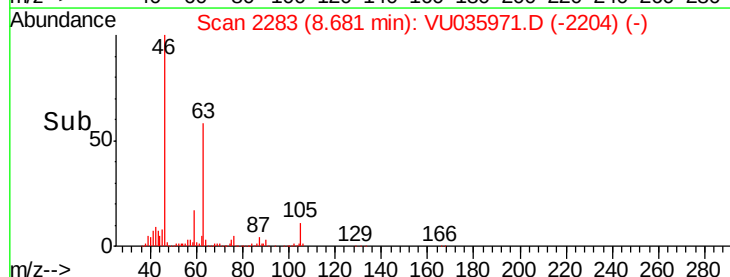
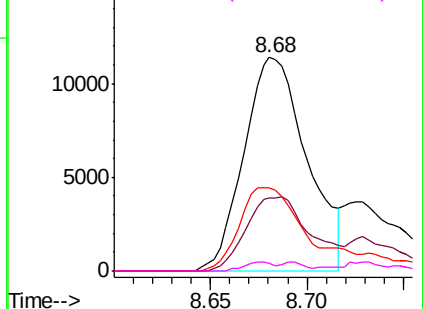


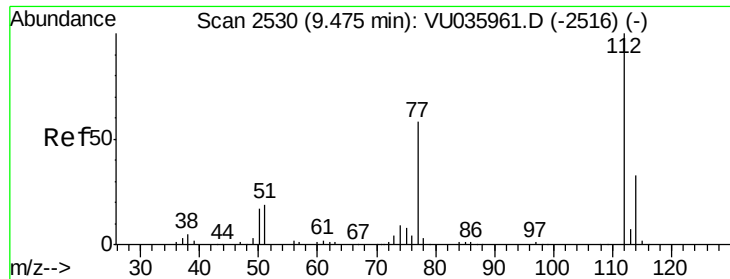
Abundance Ion 43.05 (42.75 to 43.75): VU0

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





#51

Chlorobenzene

Concen: 0.079 ug/L

RT: 9.48 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU035971.D

Acq: 04 Dec 2019 14:55

Instrument :

MSVOA_U

ClientSampleId :

BFE24DL

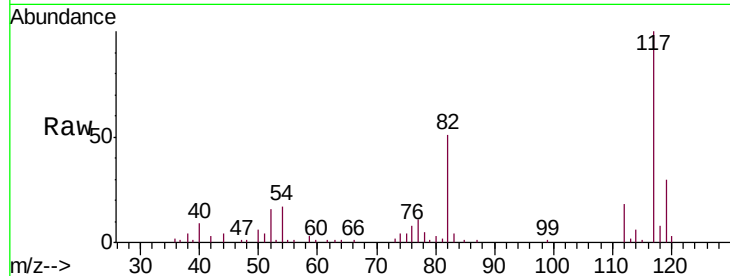
Tgt Ion:112 Resp: 5170

Ion Ratio Lower Upper

112 100

114 33.4 22.5 41.7

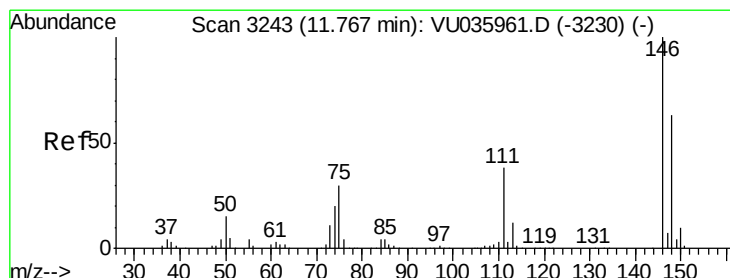
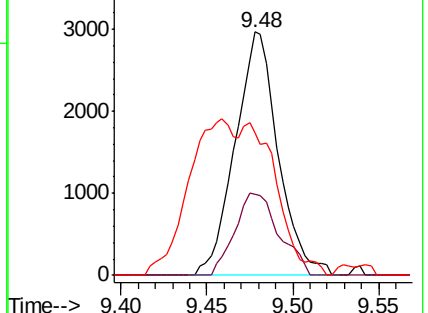
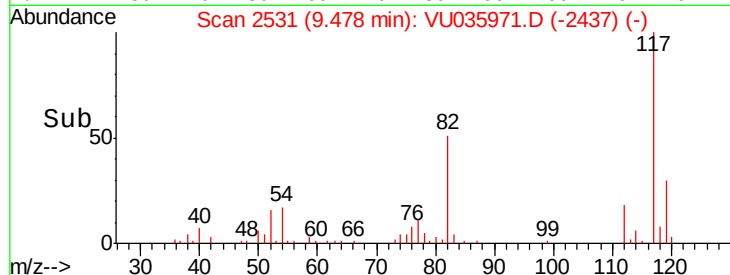
77 58.4 47.7 71.5



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU0



#62

1,3-Dichlorobenzene

Concen: 0.067 ug/L

RT: 11.77 min Scan# 3243

Delta R.T. -0.00 min

Lab File: VU035971.D

Acq: 04 Dec 2019 14:55

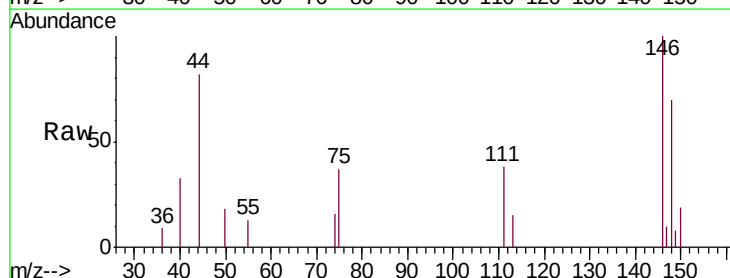
Tgt Ion:146 Resp: 2331

Ion Ratio Lower Upper

146 100

111 37.6 27.6 51.4

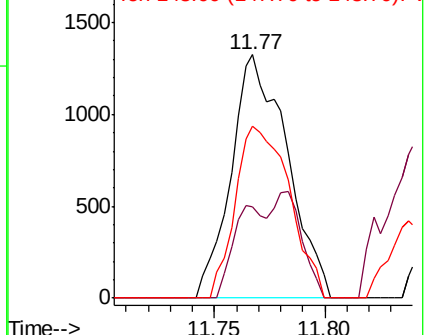
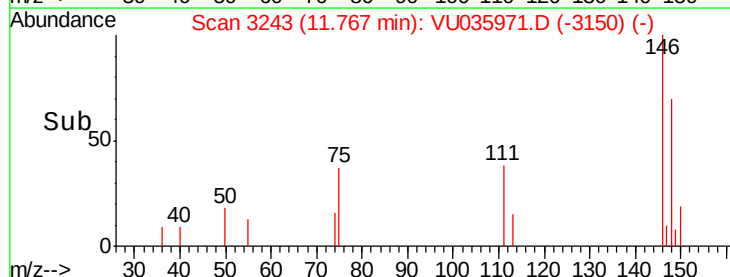
148 70.4 43.4 80.6

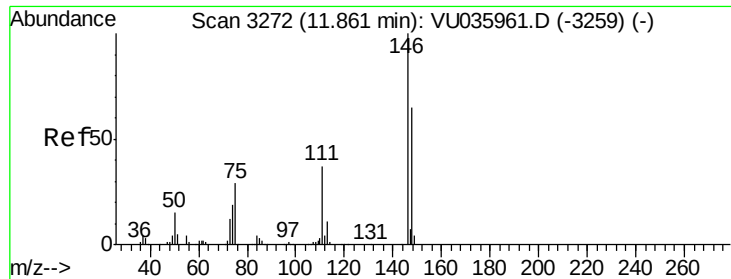


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

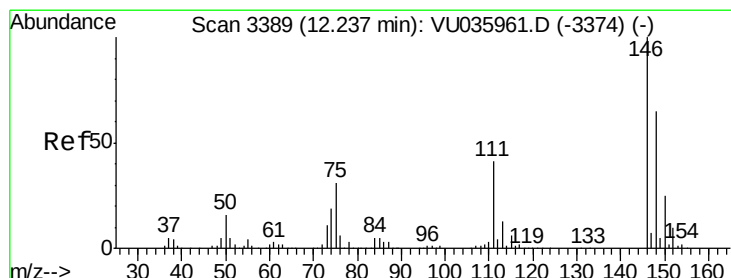
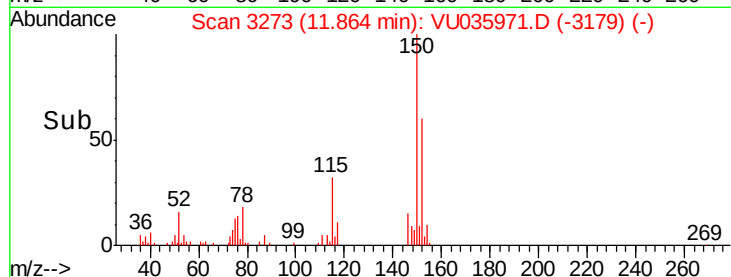
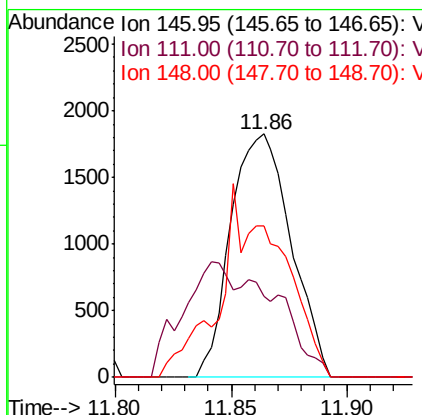
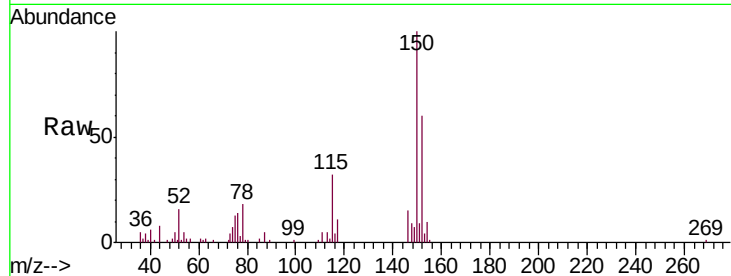




#63
 1,4-Dichlorobenzene
 Concen: 0.096 ug/L
 RT: 11.86 min Scan# 3273
 Delta R.T. 0.00 min
 Lab File: VU035971.D
 Acq: 04 Dec 2019 14:55

Instrument :
 MSVOA_U
 ClientSampleId :
 BFE24DL

Tgt Ion:146 Resp: 3310
 Ion Ratio Lower Upper
 146 100
 111 33.4 28.5 52.9
 148 62.3 44.4 82.5



#65
 1,2-Dichlorobenzene
 Concen: 0.090 ug/L
 RT: 12.23 min Scan# 3388
 Delta R.T. -0.00 min
 Lab File: VU035971.D
 Acq: 04 Dec 2019 14:55

Tgt Ion:146 Resp: 3005
 Ion Ratio Lower Upper
 146 100
 111 53.5 32.6 48.8#
 148 70.8 50.9 76.3

