

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U103119\
 Data File : VU035568.D
 Acq On : 30 Oct 2019 18:15
 Operator : JC/SP
 Sample : K5538-01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BF6M1

Quant Time: Oct 31 00:22:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM103119WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 31 00:14:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	650892	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	616322	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	266140	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	233346	44.39	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	88.78%
7) Chloroethane-d5	1.93	69	200133	47.67	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	95.34%
11) 1,1-Dichloroethene-d2	2.59	63	286630	35.06	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	70.12%
21) 2-Butanone-d5	4.69	46	398512	129.77	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	129.77%
24) Chloroform-d	5.11	84	397795	49.00	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.00%
26) 1,2-Dichloroethane-d4	5.75	65	253623	50.99	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.98%
32) Benzene-d6	5.77	84	853789	53.14	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	106.28%
36) 1,2-Dichloropropane-d6	6.74	67	276919	53.15	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	106.30%
41) Toluene-d8	7.93	98	780141	51.48	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.96%
43) trans-1,3-Dichloropropene-	8.21	79	127492	53.12	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	106.24%
47) 2-Hexanone-d5	8.68	63	259958	130.19	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	130.19%#
57) 1,1,2,2-Tetrachloroethane-	10.79	84	395350	53.36	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	106.72%
64) 1,2-Dichlorobenzene-d4	12.22	152	270563	50.40	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	174661	29.343	ug/L	85
13) Acetone	2.67	43	186618	69.073	ug/L	99
14) Carbon disulfide	2.83	76	21917	1.789	ug/L	100
15) Methyl Acetate	3.00	43	18240	3.727	ug/L	99
19) 1,1-Dichloroethane	3.92	63	101552	12.573	ug/L	97
20) cis-1,2-Dichloroethene	4.72	96	636860	134.851	ug/L	97
22) 2-Butanone	4.77	43	57828	16.214	ug/L	95
29) Cyclohexane	5.43	56	40752	6.483	ug/L	96
33) Benzene	5.82	78	2443559	141.072	ug/L	100
34) Trichloroethene	6.58	95	4736	1.075	ug/L	93
35) Methylcyclohexane	6.80	83	43926	6.868	ug/L	91
37) 1,2-Dichloropropane	6.84	63	25214	5.436	ug/L	98
40) 4-Methyl-2-pentanone	7.84	43	49291	7.943	ug/L	98
42) Toluene	8.01	91	6082667	335.057	ug/L	100
46) Tetrachloroethene	8.58	164	4343	1.179	ug/L	93
51) Chlorobenzene	9.48	112	14895	1.229	ug/L #	88
52) Ethylbenzene	9.60	91	1249343	64.373	ug/L	99

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BF6M1

Quant Time: Oct 31 00:22:09 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM103119WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Oct 31 00:14:38 2019
Response via : Initial Calibration

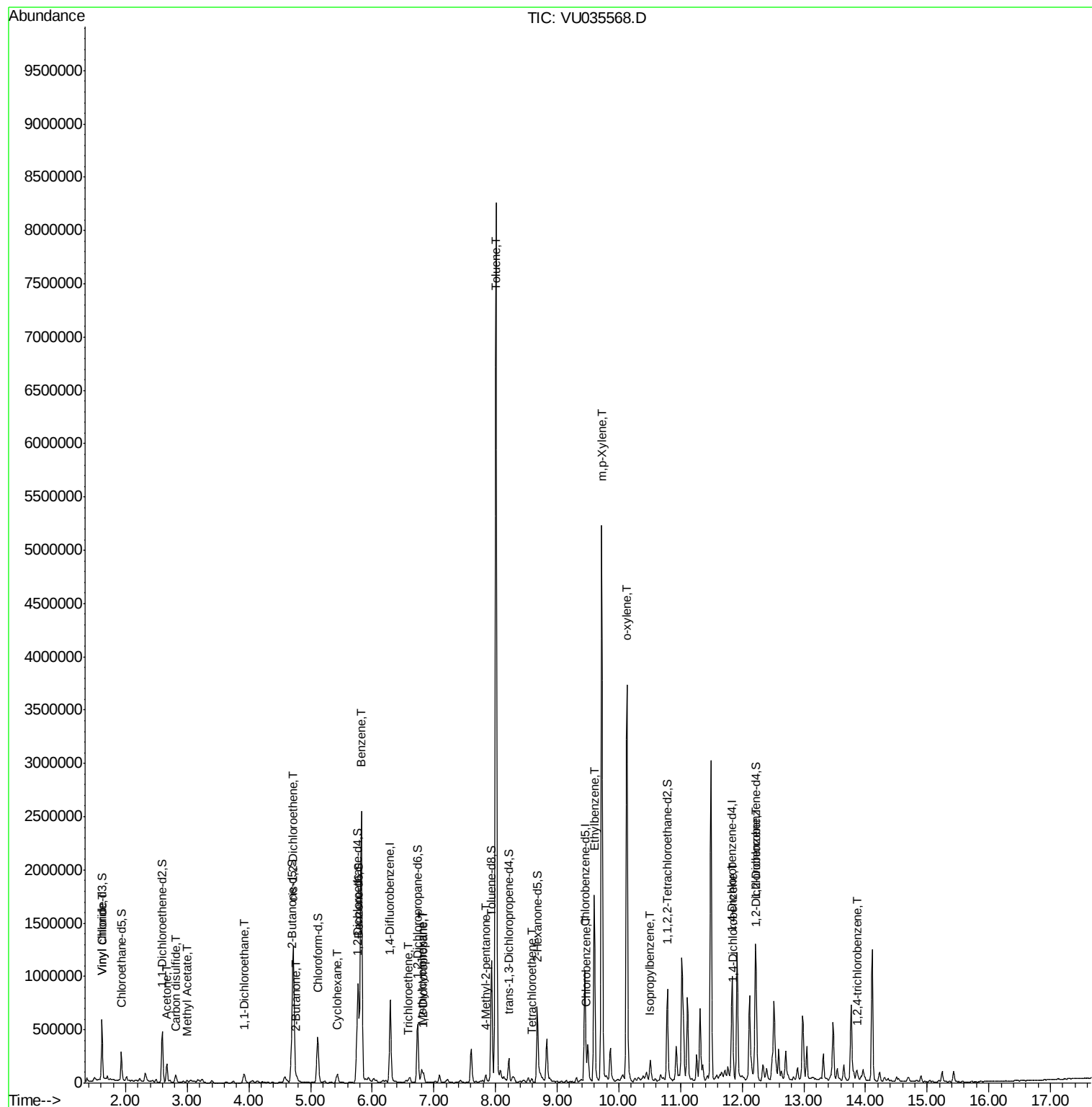
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.72	106	1539493	211.394	uq/L	97
54) o-xylene	10.13	106	1038611	145.916	uq/L	100
56) Isopropylbenzene	10.51	105	88517	4.949	uq/L	100
63) 1,4-Dichlorobenzene	11.86	146	14953	1.753	uq/L	94
65) 1,2-Dichlorobenzene	12.24	146	111361	13.029	uq/L	99
68) 1,2,4-trichlorobenzene	13.86	180	3321	1.022	uq/L #	77

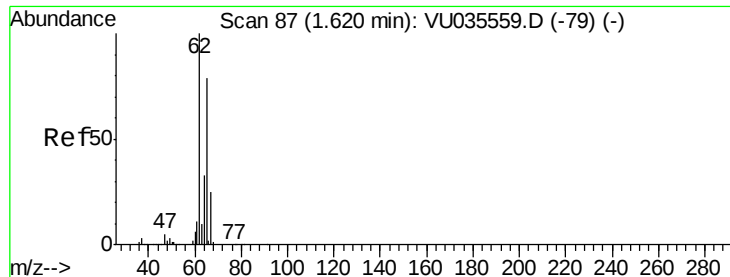
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU103119\
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#5

Vinyl chloride

Concen: 29.343 ug/L

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VU035568.D

Acq: 30 Oct 2019 18:15

Instrument :

MSVOA_U

ClientSampleId :

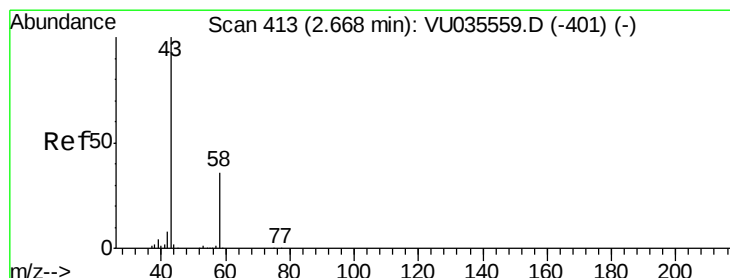
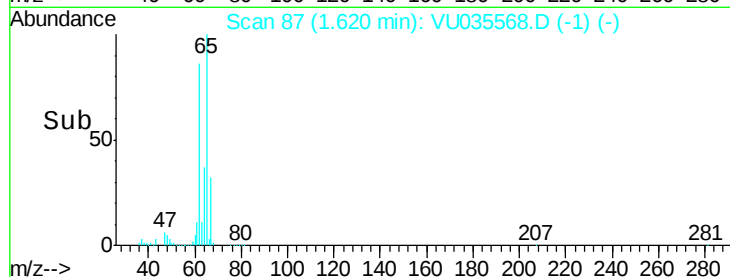
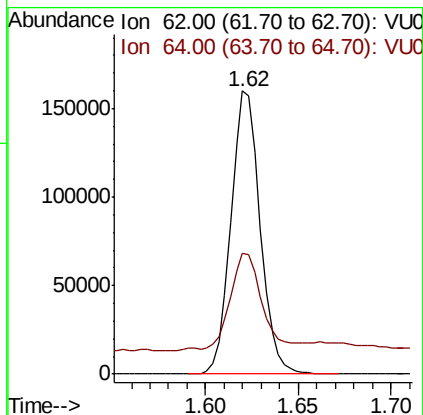
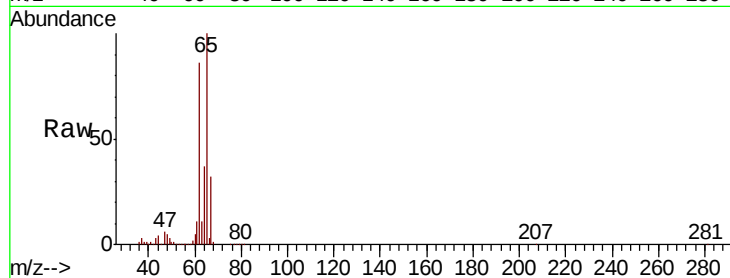
BF6M1

Tot Ion: 62 Resp: 174661

Ion Ratio Lower Upper

62 100

64 42.5 23.7 43.9



#13

Acetone

Concen: 69.073 ug/L

RT: 2.67 min Scan# 413

Delta R.T. -0.00 min

Lab File: VU035568.D

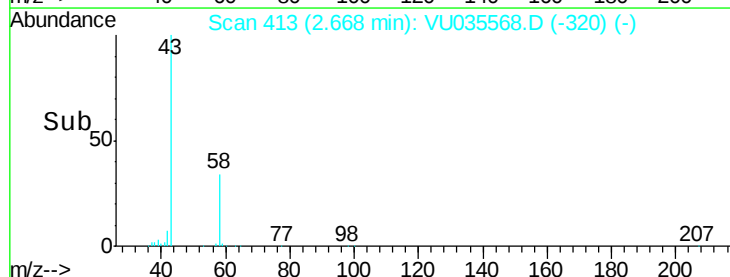
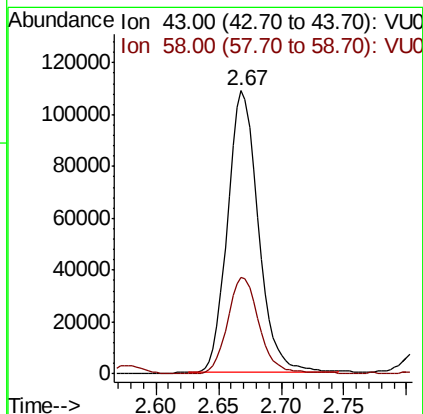
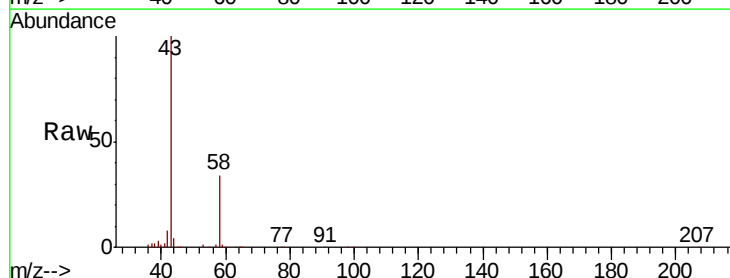
Acq: 30 Oct 2019 18:15

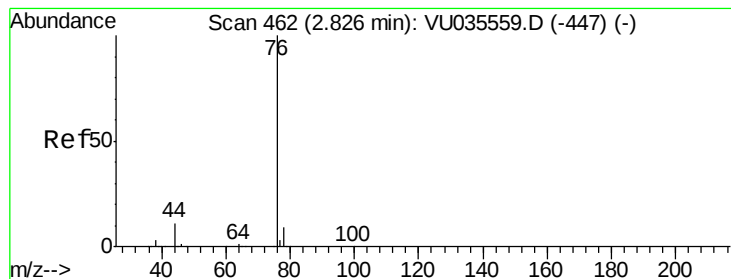
Tgt Ion: 43 Resp: 186618

Ion Ratio Lower Upper

43 100

58 35.6 0.0 70.0





#14

Carbon disulfide

Concen: 1.789 ug/L

RT: 2.83 min Scan# 462

Delta R.T. -0.00 min

Lab File: VU035568.D

Acq: 30 Oct 2019 18:15

Instrument :

MSVOA_U

ClientSampled :

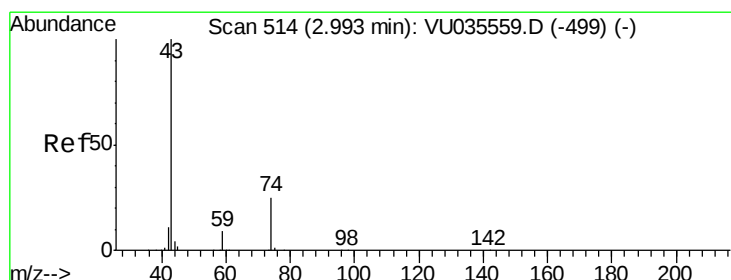
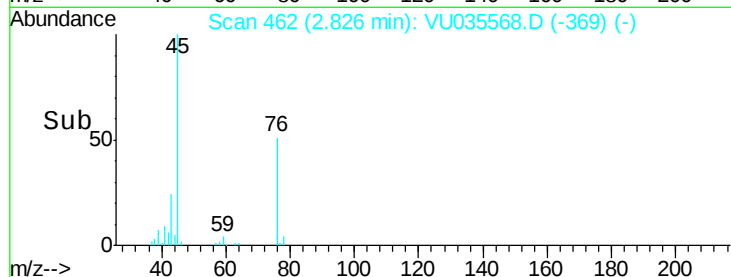
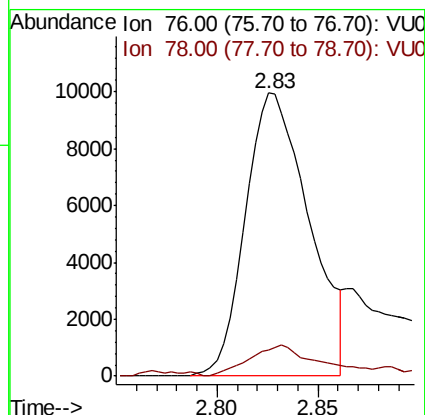
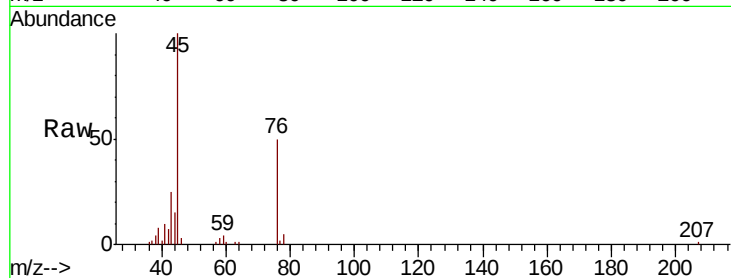
BF6M1

Tot Ion: 76 Resp: 21917

Ion Ratio Lower Upper

76 100

78 9.3 7.4 11.0



#15

Methyl Acetate

Concen: 3.727 ug/L

RT: 3.00 min Scan# 515

Delta R.T. 0.00 min

Lab File: VU035568.D

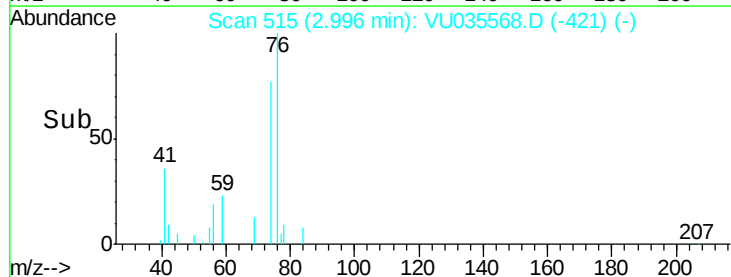
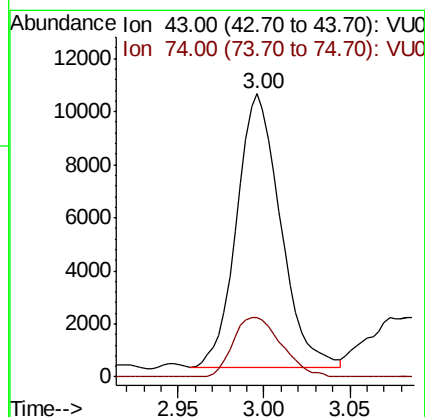
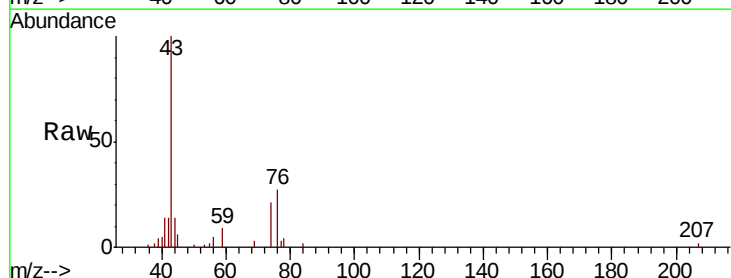
Acq: 30 Oct 2019 18:15

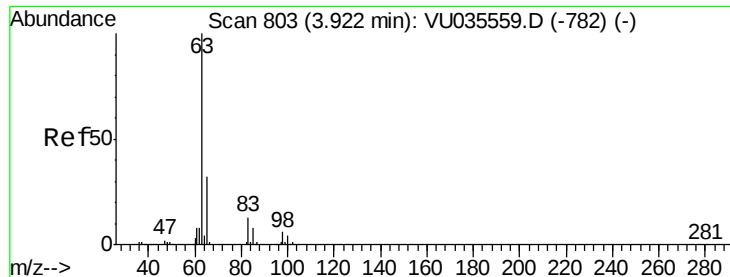
Tgt Ion: 43 Resp: 18240

Ion Ratio Lower Upper

43 100

74 24.1 19.8 29.6

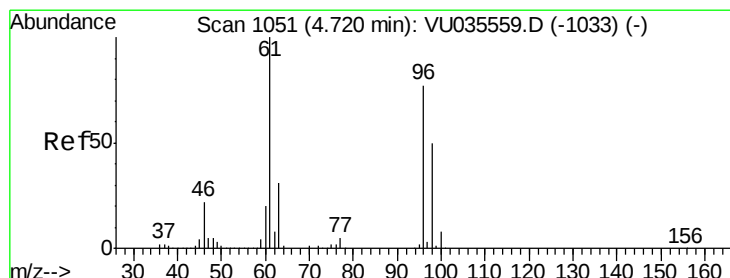
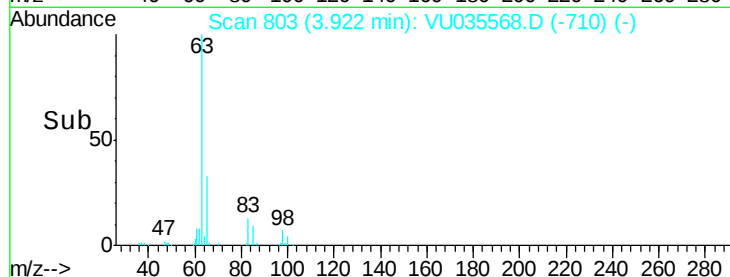
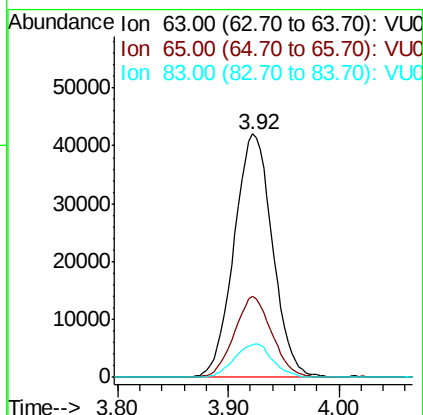
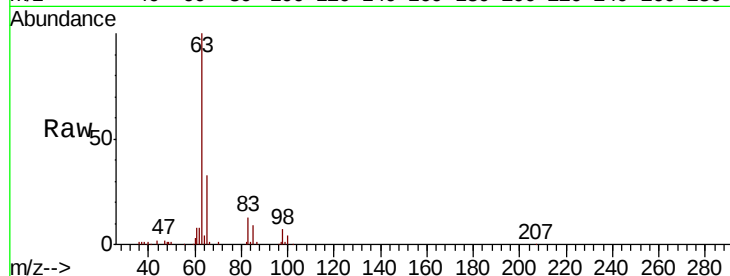




#19
 1,1-Dichloroethane
 Concen: 12.573 ug/L
 RT: 3.92 min Scan# 803
 Delta R.T. -0.00 min
 Lab File: VU035568.D
 Acq: 30 Oct 2019 18:15

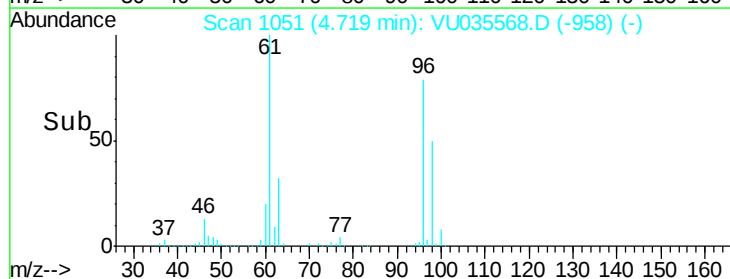
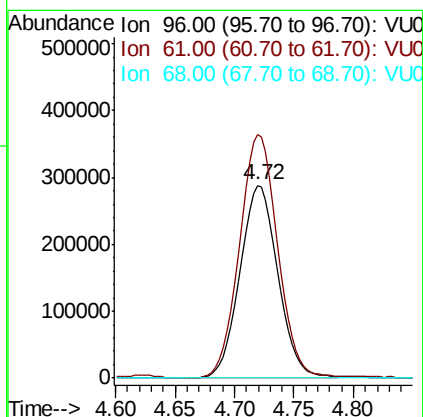
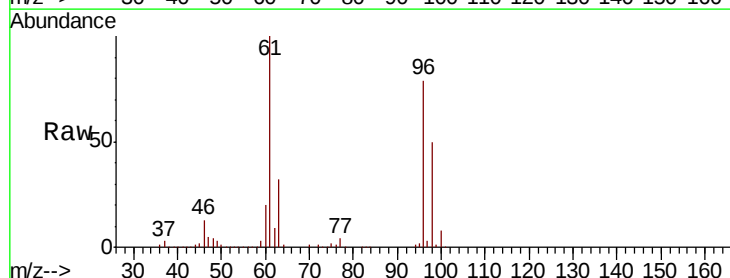
Instrument :
 MSVOA_U
 ClientSampled :
 BF6M1

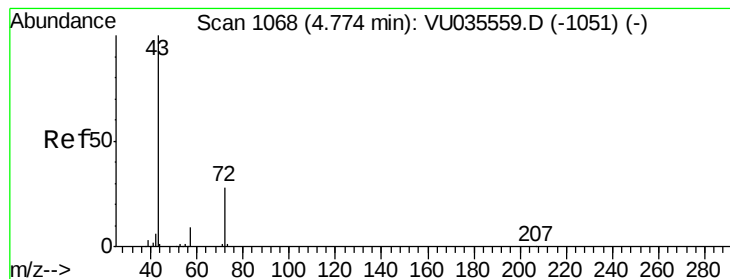
Tot Ion:	63	Resp:	101552
Ion	Ratio	Lower	Upper
63	100		
65	33.5	22.1	41.1
83	13.4	9.1	16.9



#20
 cis-1,2-Dichloroethene
 Concen: 134.851 ug/L
 RT: 4.72 min Scan# 1051
 Delta R.T. -0.00 min
 Lab File: VU035568.D
 Acq: 30 Oct 2019 18:15

Tgt Ion:	96	Resp:	636860
Ion	Ratio	Lower	Upper
96	100		
61	126.3	90.6	168.3
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 16.214 ug/L

RT: 4.77 min Scan# 1068

Delta R.T. -0.00 min

Lab File: VU035568.D

Acq: 30 Oct 2019 18:15

Instrument :

MSVOA_U

ClientSampleId :

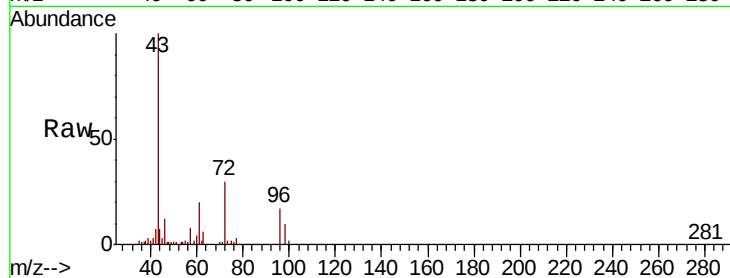
BF6M1

Tot Ion: 43 Resp: 57828

Ion Ratio Lower Upper

43 100

72 29.6 13.5 40.4



Abundance Ion 43.00 (42.70 to 43.70): VU035568.D (-975) (-)

Ion 72.00 (71.70 to 72.70): VU035568.D (-975) (-)

4.77

25000

20000

15000

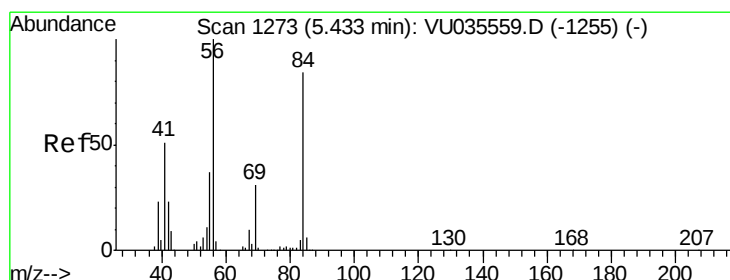
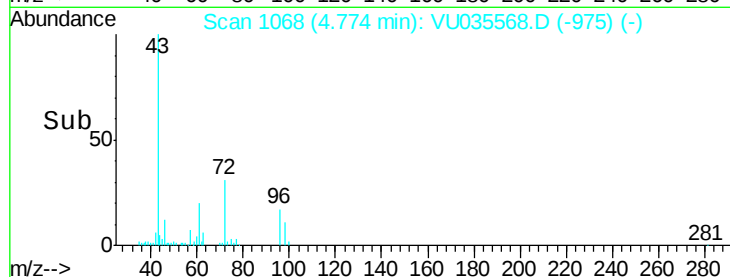
10000

5000

0

4.70 4.75 4.80 4.85

Time-->



#29

Cyclohexane

Concen: 6.483 ug/L

RT: 5.43 min Scan# 1273

Delta R.T. -0.00 min

Lab File: VU035568.D

Acq: 30 Oct 2019 18:15

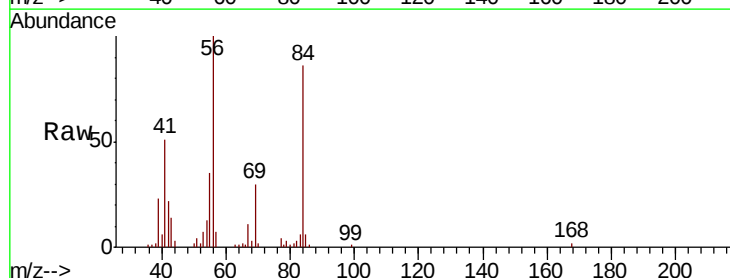
Tgt Ion: 56 Resp: 40752

Ion Ratio Lower Upper

56 100

69 33.4 24.4 36.6

84 82.8 68.6 102.8



Abundance Ion 56.00 (55.70 to 56.70): VU035568.D (-1180) (-)

Ion 69.00 (68.70 to 69.70): VU035568.D (-1180) (-)

Ion 84.00 (83.70 to 84.70): VU035568.D (-1180) (-)

5.43

25000

20000

15000

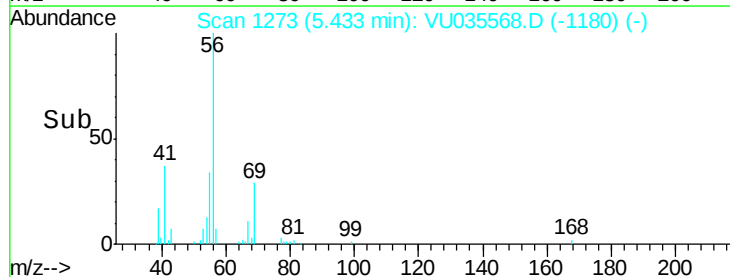
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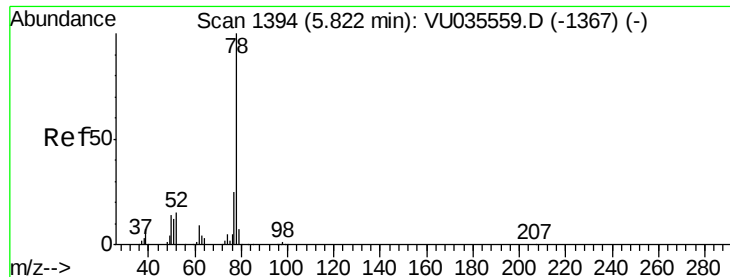
5000

0

5.35 5.40 5.45 5.50

Time-->





#33

Benzene

Concen: 141.072 ug/L

RT: 5.82 min Scan# 1394

Delta R.T. -0.00 min

Lab File: VU035568.D

Acq: 30 Oct 2019 18:15

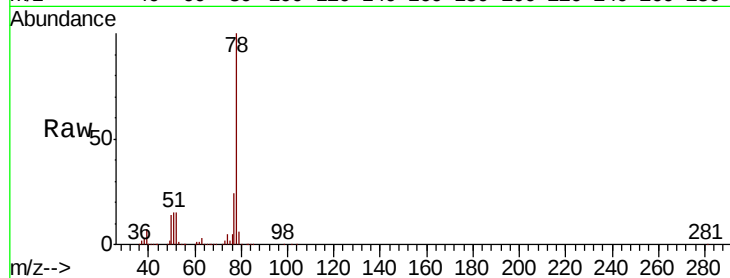
Instrument :

MSVOA_U

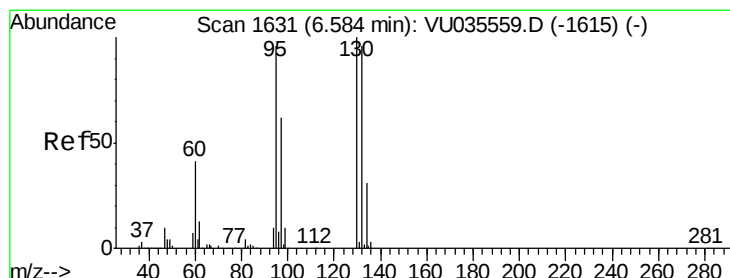
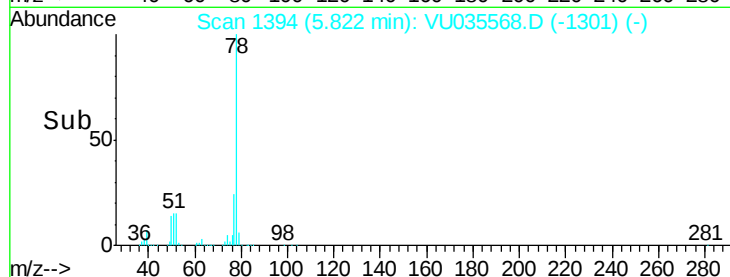
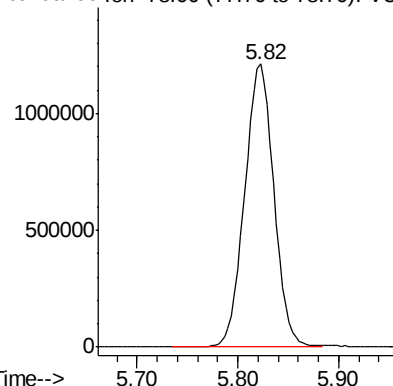
ClientSampleId :

BF6M1

Tgt Ion: 78 Resp: 2443559



Abundance Ion 78.00 (77.70 to 78.70): VU0



#34

Trichloroethene

Concen: 1.075 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VU035568.D

Acq: 30 Oct 2019 18:15

Tgt Ion: 95 Resp: 4736

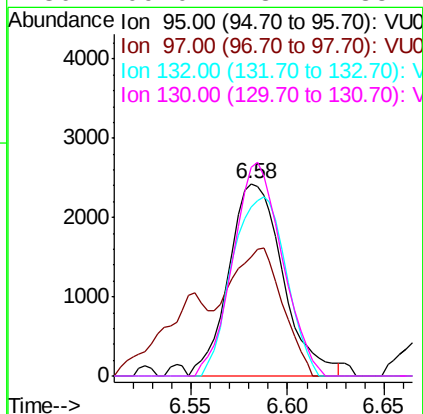
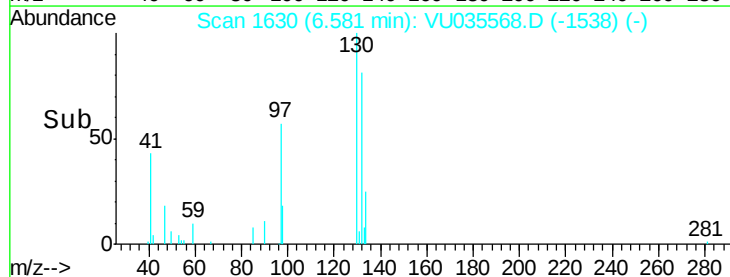
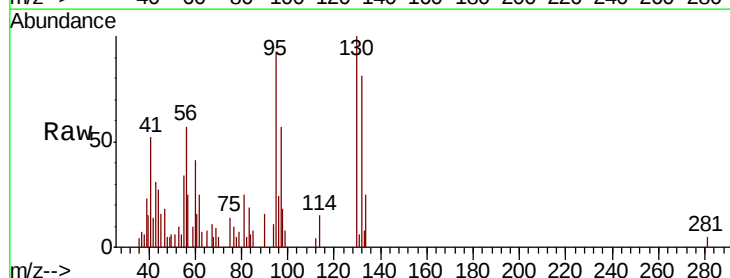
Ion	Ratio	Lower	Upper
95	100		
97	61.8	45.6	84.6
132	87.7	69.9	129.7
130	109.0	73.1	135.7

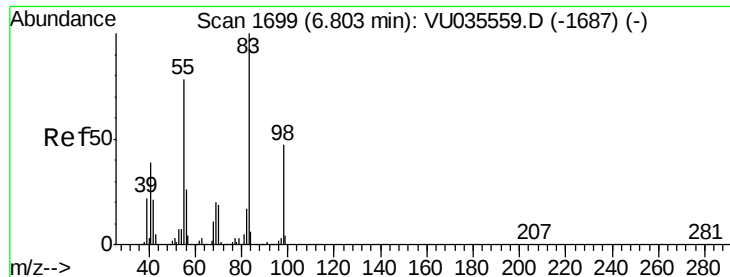
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

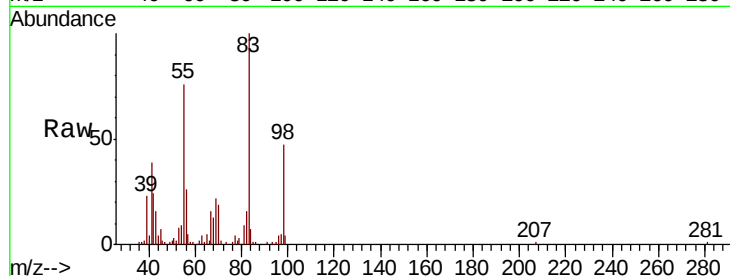




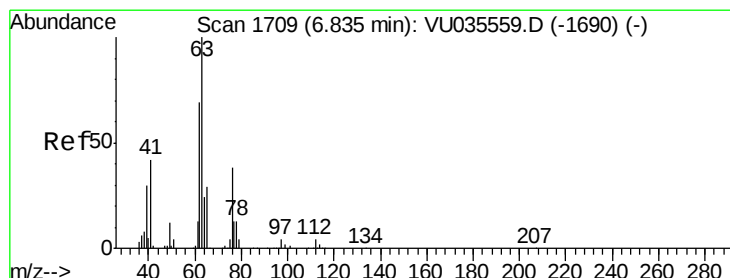
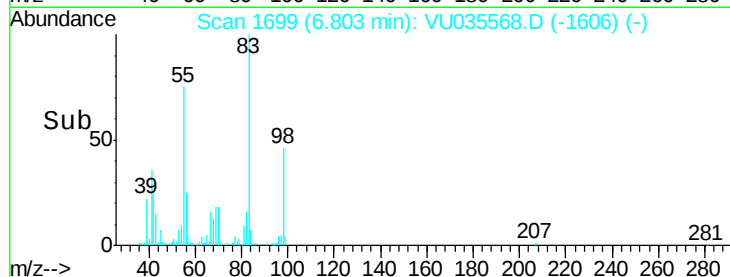
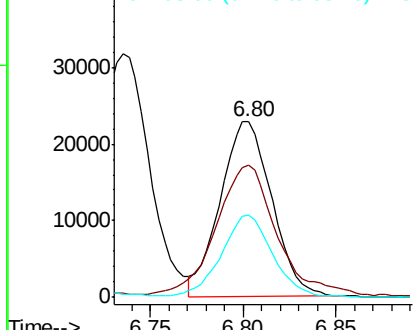
#35
Methvlcvclohexane
Concen: 6.868 ug/L
RT: 6.80 min Scan# 1699
Delta R.T. -0.00 min
Lab File: VU035568.D
Acq: 30 Oct 2019 18:15

Instrument :
MSVOA_U
ClientSampled :
BF6M1

Tot Ion: 83 Resp: 43926
Ion Ratio Lower Upper
83 100
55 87.6 61.0 91.4
98 47.2 36.6 54.8

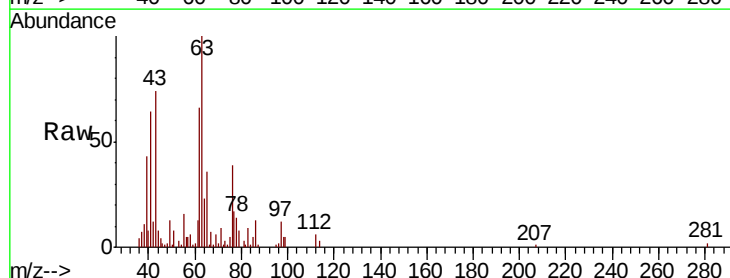


Abundance Ion 83.00 (82.70 to 83.70): VU0
Ion 55.00 (54.70 to 55.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

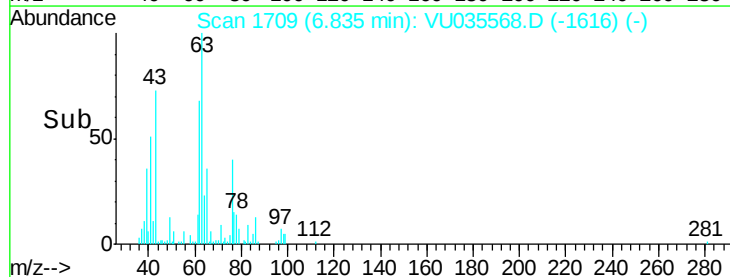
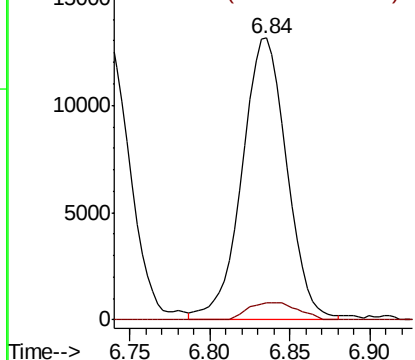


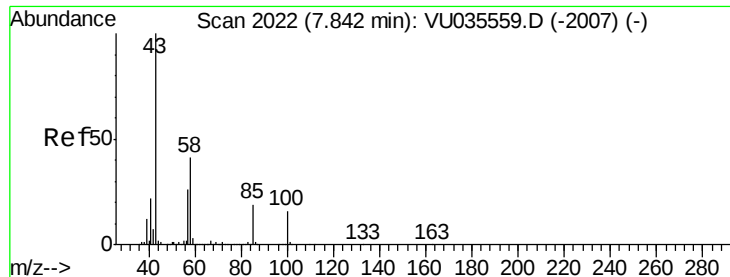
#37
1,2-Dichloropropane
Concen: 5.436 ug/L
RT: 6.84 min Scan# 1709
Delta R.T. -0.00 min
Lab File: VU035568.D
Acq: 30 Oct 2019 18:15

Tgt Ion: 63 Resp: 25214
Ion Ratio Lower Upper
63 100
112 3.5 3.2 4.8



Abundance Ion 63.00 (62.70 to 63.70): VU0
Ion 112.00 (111.70 to 112.70): V

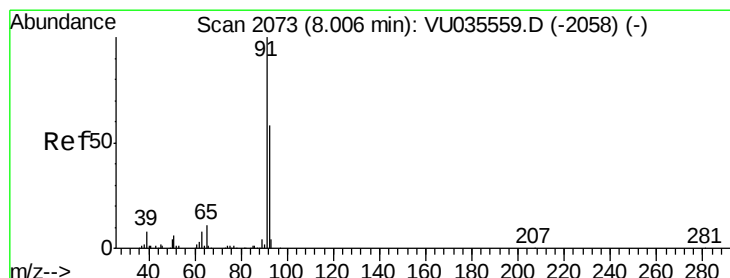
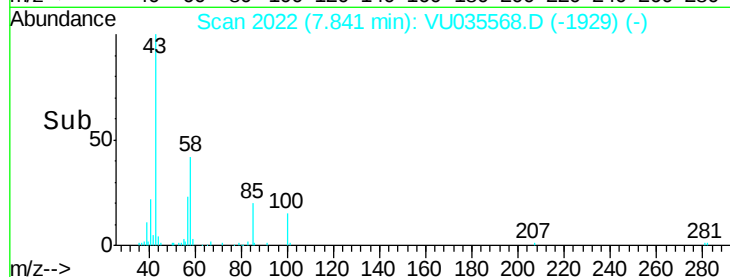
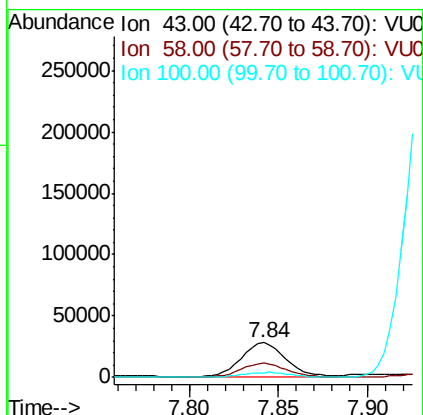
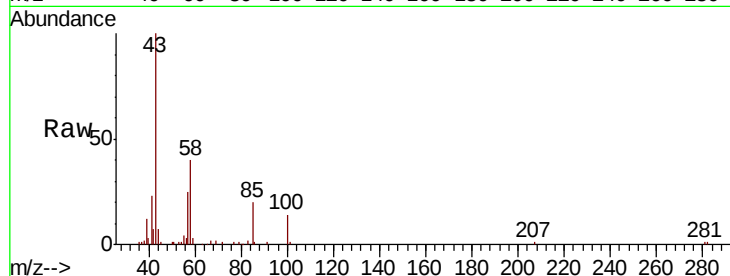




#40
4-Methyl-2-pentanone
Concen: 7.943 ug/L
RT: 7.84 min Scan# 2022
Delta R.T. -0.00 min
Lab File: VU035568.D
Acq: 30 Oct 2019 18:15

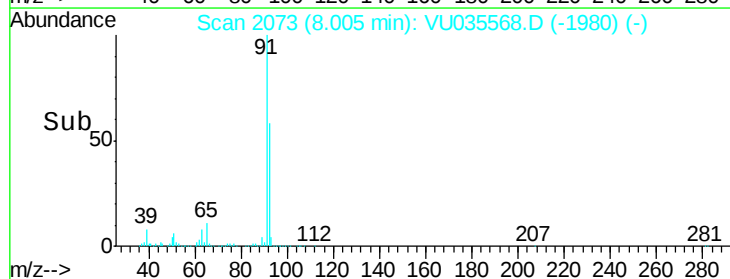
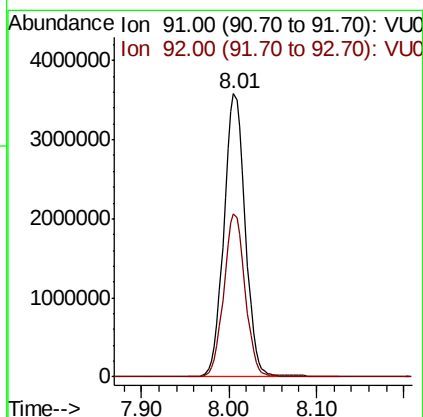
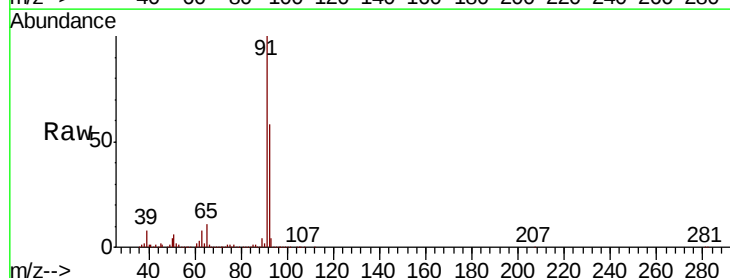
Instrument :
MSVOA_U
ClientSampled :
BF6M1

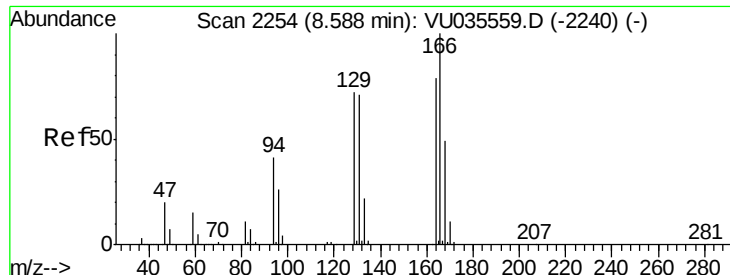
Tot Ion	43	58	100	Resp	Lower	Upper
43	100			49291		
58	42.4	100			32.6	49.0
100	15.2	12.6	100		12.6	19.0



#42
Toluene
Concen: 335.057 ug/L
RT: 8.01 min Scan# 2073
Delta R.T. -0.00 min
Lab File: VU035568.D
Acq: 30 Oct 2019 18:15

Tgt Ion	91	92	Resp	Lower	Upper
91	100		6082667		
92	57.8	100		40.5	75.1





#46

Tetrachloroethene

Concen: 1.179 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. -0.00 min

Lab File: VU035568.D

Acq: 30 Oct 2019 18:15

Instrument :

MSVOA_U

ClientSampleId :

BF6M1

Tot Ion:164 Resp: 4343

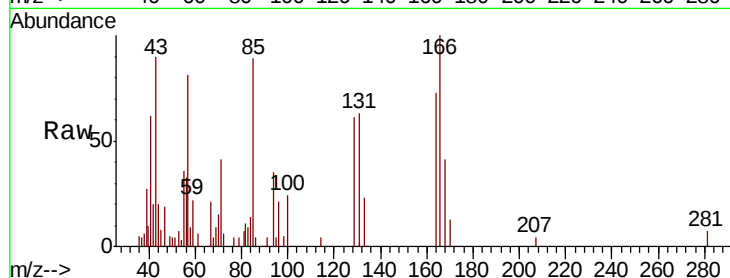
Ion Ratio Lower Upper

164 100

129 84.3 64.1 119.1

131 87.2 63.1 117.1

166 137.7 88.5 164.3

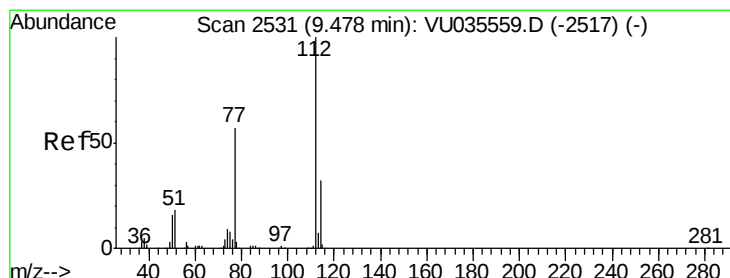
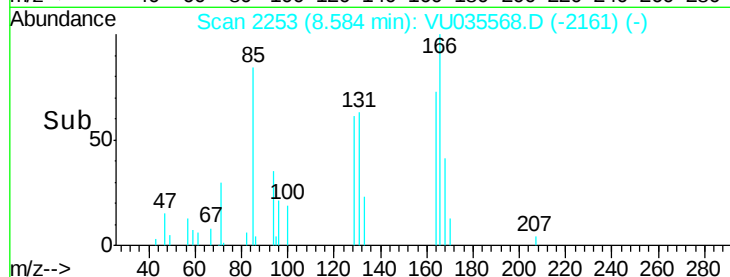
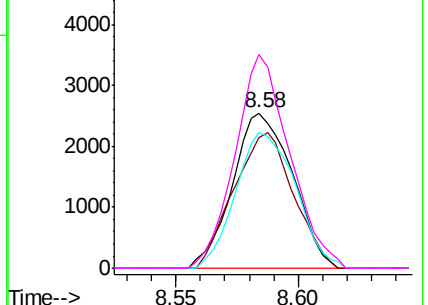


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#51

Chlorobenzene

Concen: 1.229 ug/L

RT: 9.48 min Scan# 2531

Delta R.T. -0.00 min

Lab File: VU035568.D

Acq: 30 Oct 2019 18:15

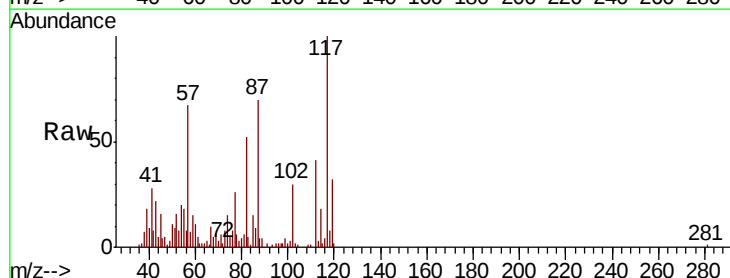
Tgt Ion:112 Resp: 14895

Ion Ratio Lower Upper

112 100

114 43.1 22.7 42.3#

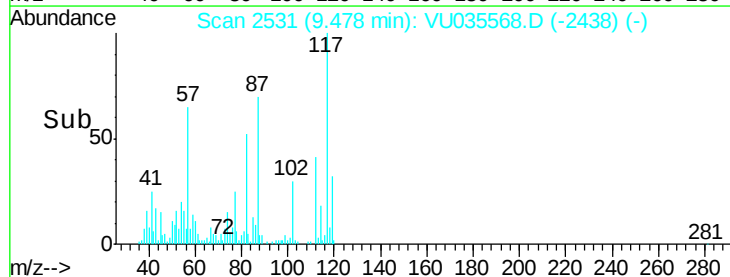
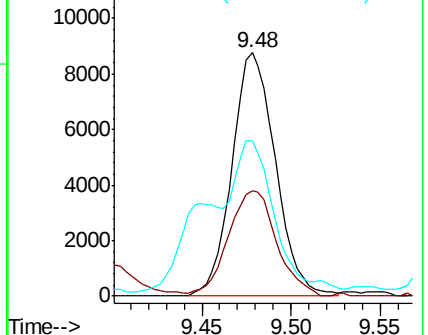
77 63.7 45.9 68.9

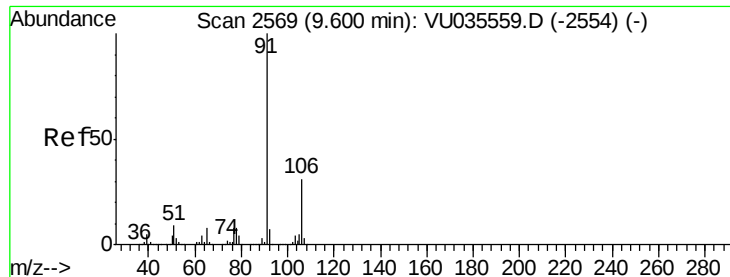


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU0





#52

Ethylbenzene

Concen: 64.373 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU035568.D

Acq: 30 Oct 2019 18:15

Instrument :

MSVOA_U

ClientSampleId :

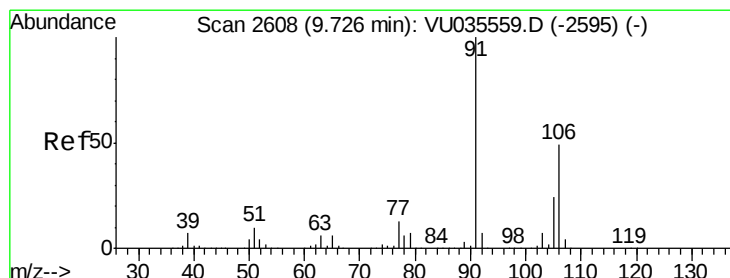
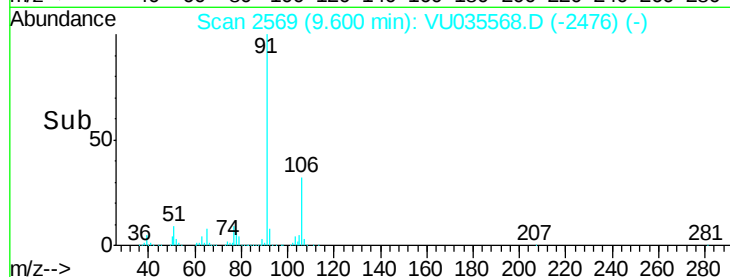
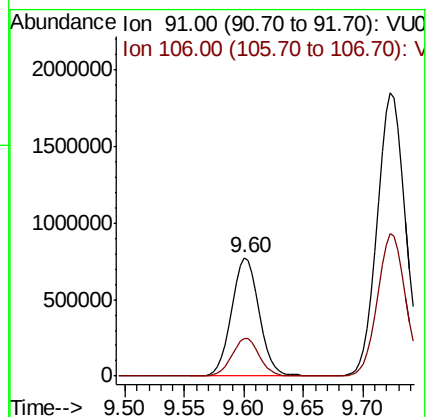
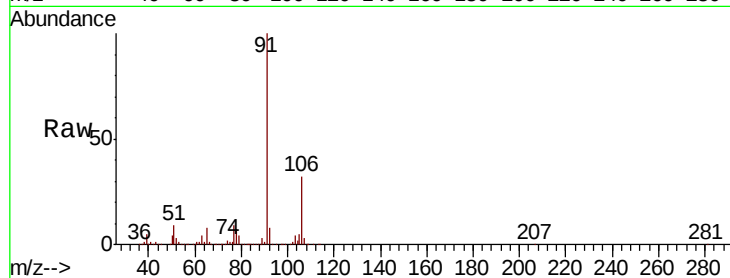
BF6M1

Tot Ion: 91 Resp: 1249343

Ion Ratio Lower Upper

91 100

106 31.6 21.6 40.0



#53

m,p-Xylene

Concen: 211.394 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VU035568.D

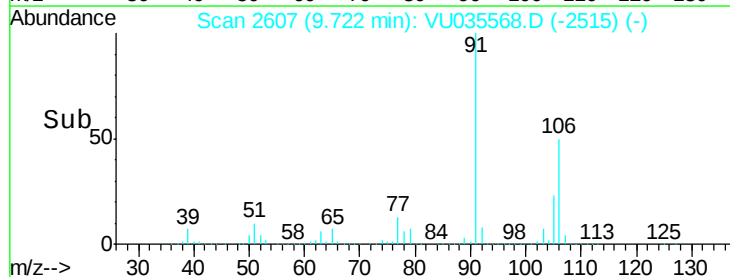
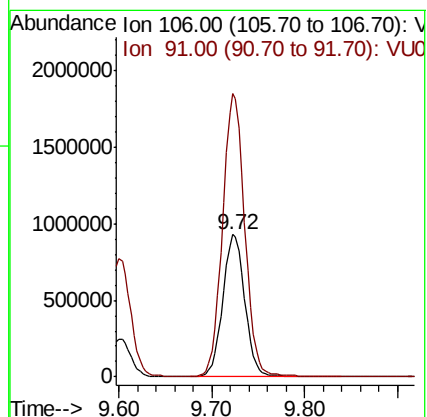
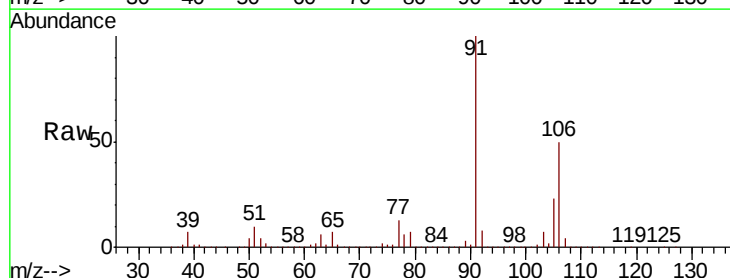
Acq: 30 Oct 2019 18:15

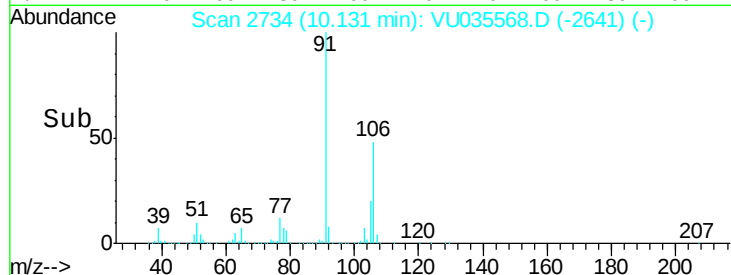
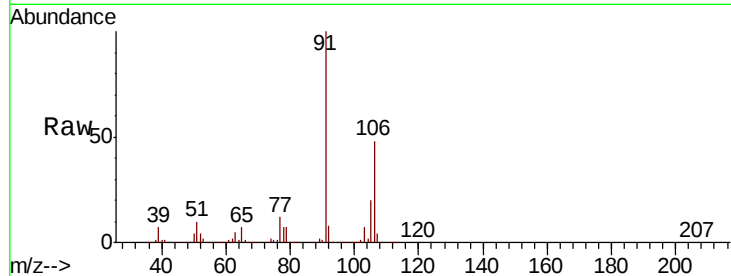
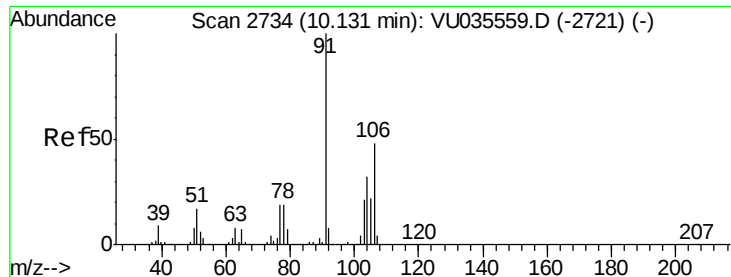
Tgt Ion: 106 Resp: 1539493

Ion Ratio Lower Upper

106 100

91 199.2 142.7 264.9





#54

o-xylene

Concen: 145.916 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. -0.00 min

Lab File: VU035568.D

Acq: 30 Oct 2019 18:15

Instrument :

MSVOA_U

ClientSampleId :

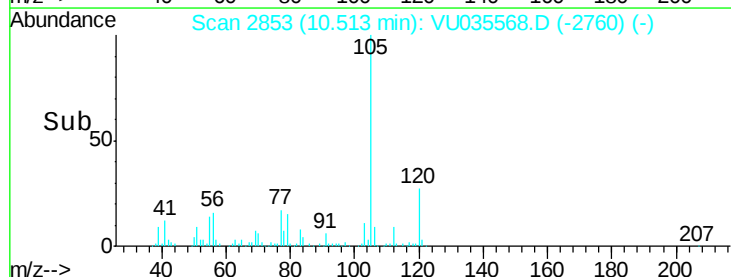
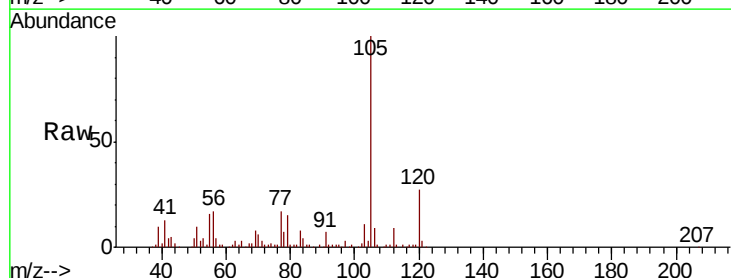
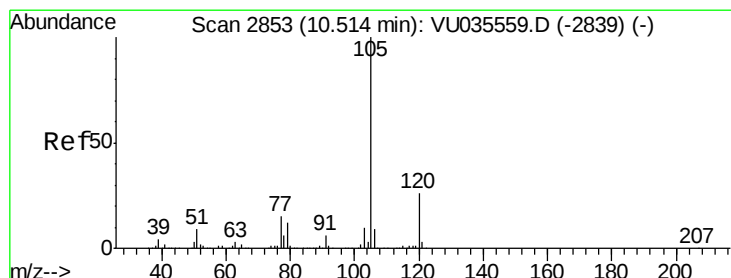
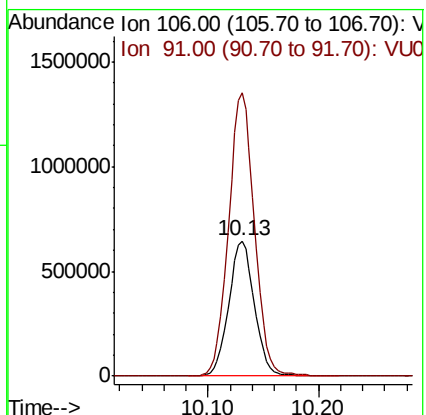
BF6M1

Tot Ion:106 Resp: 1038611

Ion Ratio Lower Upper

106 100

91 209.4 147.1 273.1



#56

Isopropylbenzene

Concen: 4.949 ug/L

RT: 10.51 min Scan# 2853

Delta R.T. -0.00 min

Lab File: VU035568.D

Acq: 30 Oct 2019 18:15

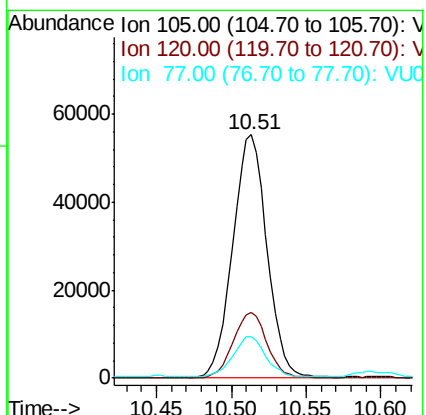
Tgt Ion:105 Resp: 88517

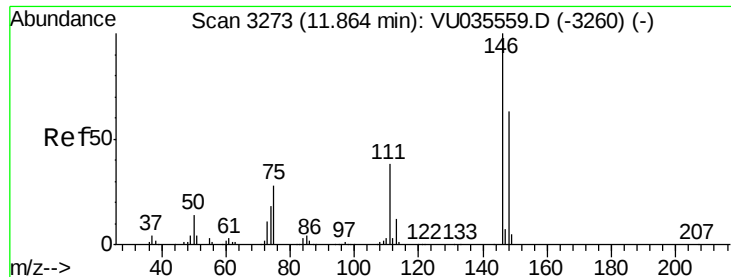
Ion Ratio Lower Upper

105 100

120 26.6 21.1 31.7

77 15.3 12.2 18.4





#63

1,4-Dichlorobenzene

Concen: 1.753 ug/L

RT: 11.86 min Scan# 3272

Delta R.T. -0.00 min

Lab File: VU035568.D

Acq: 30 Oct 2019 18:15

Instrument :

MSVOA_U

ClientSampleId :

BF6M1

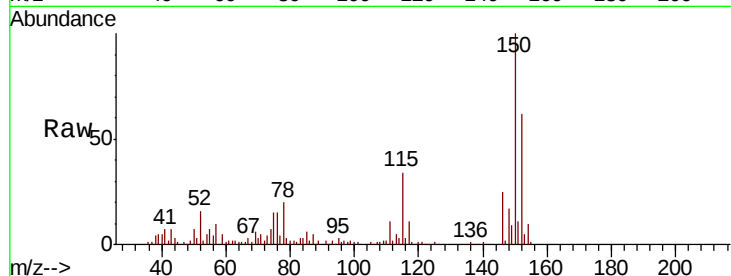
Tot Ion:146 Resp: 14953

Ion Ratio Lower Upper

146 100

111 43.1 26.5 49.1

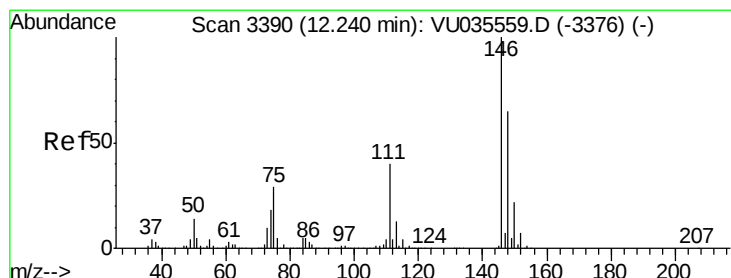
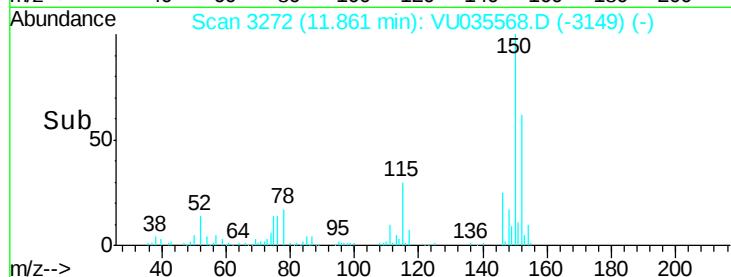
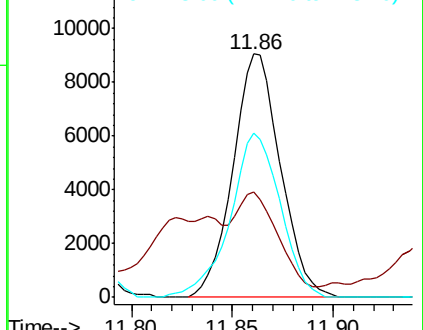
148 67.4 44.4 82.5



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: 13.029 ug/L

RT: 12.24 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VU035568.D

Acq: 30 Oct 2019 18:15

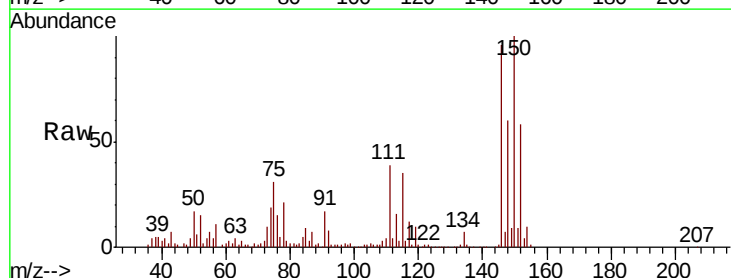
Tgt Ion:146 Resp: 111361

Ion Ratio Lower Upper

146 100

111 40.9 32.4 48.6

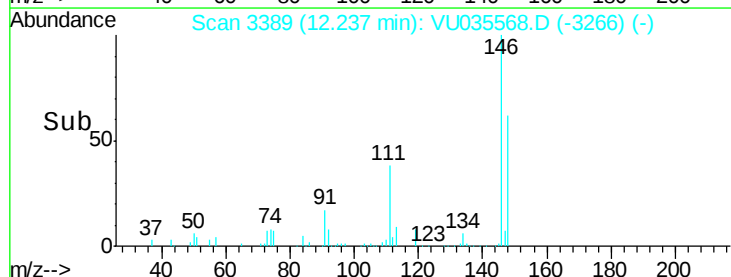
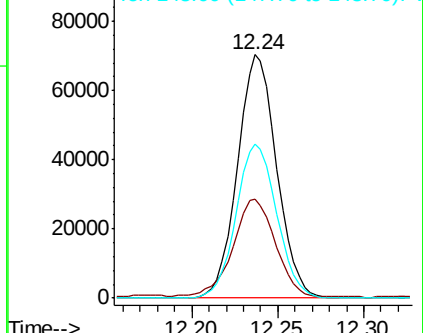
148 63.1 51.8 77.6

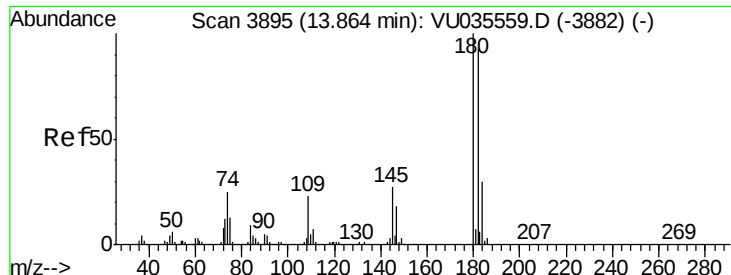


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#68
 1,2,4-trichlorobenzene
 Concen: 1.022 ug/L
 RT: 13.86 min Scan# 3894
 Delta R.T. -0.00 min
 Lab File: VU035568.D
 Acq: 30 Oct 2019 18:15

Instrument :
 MSVOA_U
 ClientSampleId :
 BF6M1

Tot Ion:180 Resp: 3321
 Ion Ratio Lower Upper
 180 100
 182 110.6 76.6 115.0
 145 52.9 21.9 32.9#

