

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111219\
 Data File : VU035689.D
 Acq On : 12 Nov 2019 09:59
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 13 00:42:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM103119WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Nov 11 15:13:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	718484	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	695310	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	313869	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	227586	39.22	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	78.44%
7) Chloroethane-d5	1.93	69	199156	42.97	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	85.94%
11) 1,1-Dichloroethene-d2	2.60	63	382468	42.38	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	84.76%
21) 2-Butanone-d5	4.69	46	327552	96.63	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	96.63%
24) Chloroform-d	5.11	84	414824	46.29	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.58%
26) 1,2-Dichloroethane-d4	5.75	65	246247	44.85	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.70%
32) Benzene-d6	5.77	84	836524	46.15	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.30%
36) 1,2-Dichloropropane-d6	6.73	67	275318	46.84	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	93.68%
41) Toluene-d8	7.93	98	787237	46.05	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.10%
43) trans-1,3-Dichloropropene-	8.21	79	128747	47.55	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.10%
47) 2-Hexanone-d5	8.67	63	224375	99.60	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	99.60%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	398590	47.69	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.38%
64) 1,2-Dichlorobenzene-d4	12.22	152	284933	45.01	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.02%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.40	85	258043	46.052	ug/L 100
3) Chloromethane	1.54	50	284996	46.670	ug/L 99
5) Vinyl chloride	1.62	62	304118	46.285	ug/L 100
6) Bromomethane	1.87	94	178413	53.608	ug/L 99
8) Chloroethane	1.95	64	179163	46.882	ug/L 99
9) Trichlorofluoromethane	2.16	101	374691	48.140	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	221037	49.467	ug/L 99
12) 1,1-Dichloroethene	2.61	96	212021	48.308	ug/L 97
13) Acetone	2.66	43	335024	112.337	ug/L 98
14) Carbon disulfide	2.82	76	632673	46.789	ug/L 99
15) Methyl Acetate	2.99	43	249153	46.125	ug/L 98
16) Methylene chloride	3.08	84	252511	47.152	ug/L 97
17) trans-1,2-Dichloroethene	3.39	96	225923	48.881	ug/L 97
18) Methyl tert-butyl Ether	3.42	73	678989	48.591	ug/L 99
19) 1,1-Dichloroethane	3.92	63	422159	47.350	ug/L 99
20) cis-1,2-Dichloroethene	4.72	96	249149	47.793	ug/L 97
22) 2-Butanone	4.77	43	402266	102.180	ug/L 96

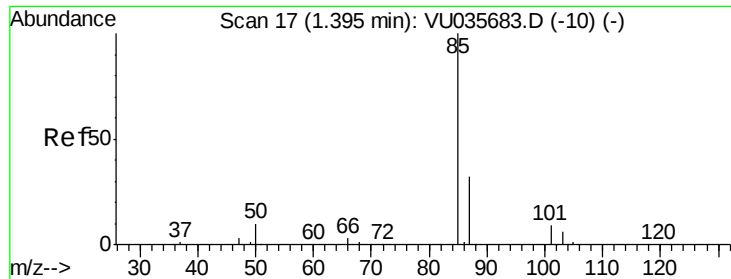
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111219\
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 Quant Title : VOC Analysis
 QLast Update : Mon Nov 11 15:13:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	136237	49.455	ug/L	96
25) Chloroform	5.14	83	433701	47.897	ug/L	99
27) 1,2-Dichloroethane	5.84	62	310103	46.877	ug/L	100
29) Cyclohexane	5.43	56	359875	50.743	ug/L	99
30) 1,1,1-Trichloroethane	5.36	97	358617	49.071	ug/L	99
31) Carbon tetrachloride	5.57	117	319923	49.233	ug/L	100
33) Benzene	5.82	78	963577	49.310	ug/L	100
34) Trichloroethene	6.58	95	242338	48.781	ug/L	98
35) Methylcyclohexane	6.80	83	364926	50.578	ug/L	99
37) 1,2-Dichloropropane	6.83	63	254913	48.713	ug/L	100
38) Bromodichloromethane	7.14	83	319146	47.981	ug/L	99
39) cis-1,3-Dichloropropene	7.65	75	399613	51.376	ug/L	99
40) 4-Methyl-2-pentanone	7.84	43	635644	90.796	ug/L	97
42) Toluene	8.01	91	1051824	51.357	ug/L	99
44) trans-1,3-Dichloropropene	8.25	75	357392	50.126	ug/L	99
45) 1,1,2-Trichloroethane	8.44	97	241941	48.236	ug/L	99
46) Tetrachloroethene	8.58	164	214184	51.561	ug/L	98
48) 2-Hexanone	8.73	43	525174	92.247	ug/L	97
49) Dibromochloromethane	8.84	129	279680	49.445	ug/L	98
50) 1,2-Dibromoethane	8.96	107	265179	49.552	ug/L	98
51) Chlorobenzene	9.48	112	674052	49.299	ug/L	98
52) Ethylbenzene	9.60	91	1113675	50.864	ug/L	98
53) m,p-Xylene	9.72	106	434393	52.872	ug/L	97
54) o-xylene	10.13	106	421995	52.552	ug/L	99
55) Styrene	10.14	104	696215	52.242	ug/L	97
56) Isopropylbenzene	10.51	105	1055857	52.324	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.81	83	411456	47.624	ug/L	99
59) 1,2,3-Trichloropropane	10.85	75	322014	47.193	ug/L	100
61) Bromoform	10.32	173	220849	46.122	ug/L	99
62) 1,3-Dichlorobenzene	11.77	146	480773	48.556	ug/L	98
63) 1,4-Dichlorobenzene	11.86	146	471942	46.919	ug/L	99
65) 1,2-Dichlorobenzene	12.24	146	475575	47.178	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	66656	42.648	ug/L	97
67) 1,3,5-Trichlorobenzene	13.24	180	257556	45.024	ug/L	99
68) 1,2,4-trichlorobenzene	13.86	180	141178	36.843	ug/L	99
69) Naphthalene	14.11	128	309606	31.500	ug/L	99
70) 1,2,3-Trichlorobenzene	14.35	180	151251	36.634	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 46.052 ug/L

RT: 1.40 min Scan# 18

Delta R.T. -0.00 min

Lab File: VU035689.D

Acq: 12 Nov 2019 09:59

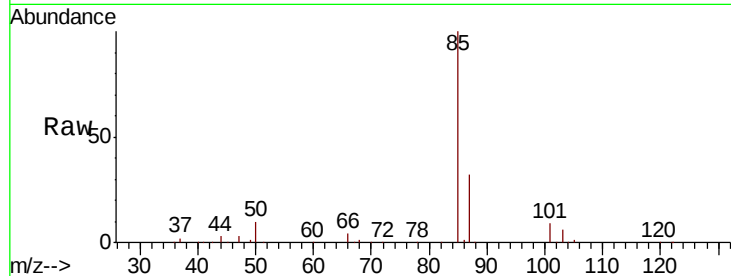
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 85 Resp: 258043

Ion Ratio Lower Upper

85 100

87 32.1 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VU035683.D (-10) (-)

Ion 87.00 (86.70 to 87.70): VU035683.D (-10) (-)

1.40

250000

200000

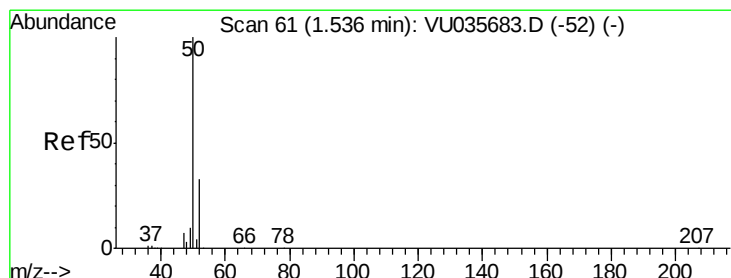
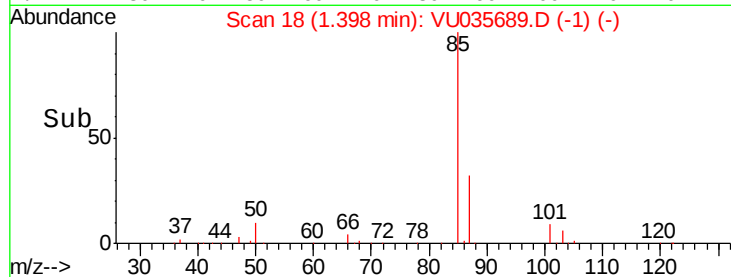
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 46.670 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU035689.D

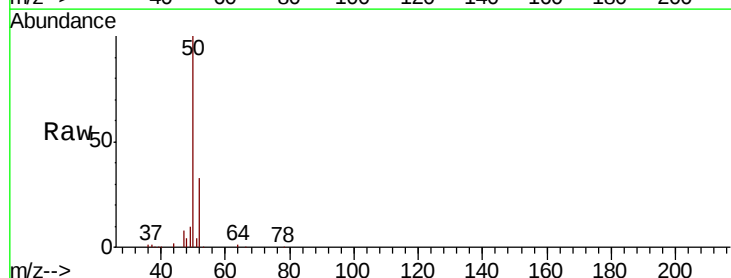
Acq: 12 Nov 2019 09:59

Tgt Ion: 50 Resp: 284996

Ion Ratio Lower Upper

50 100

52 33.4 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU035683.D (-52) (-)

Ion 52.00 (51.70 to 52.70): VU035683.D (-52) (-)

1.54

300000

250000

200000

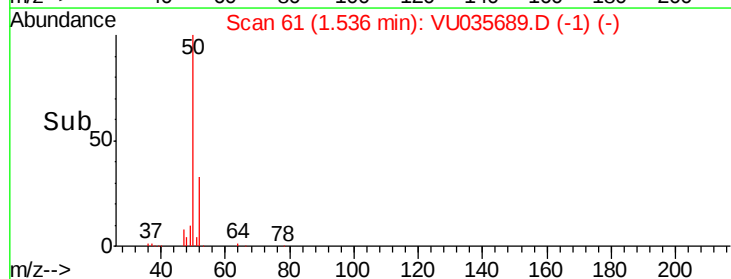
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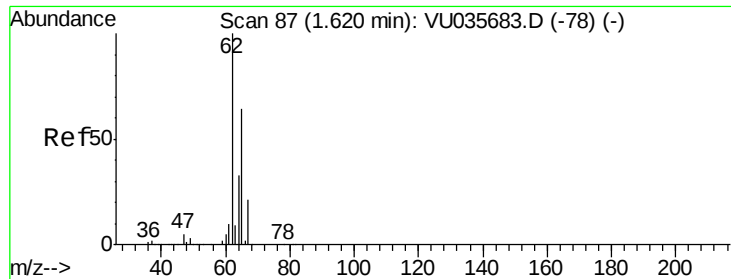
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 46.285 ug/L

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VU035689.D

Acq: 12 Nov 2019 09:59

Instrument :

MSVOA_U

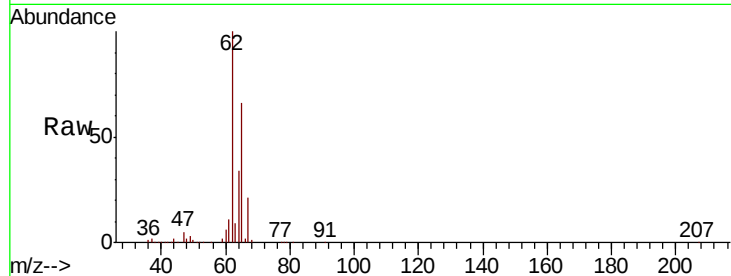
ClientSampleId :

Tot Ion: 62 Resp: 304118

Ion Ratio Lower Upper

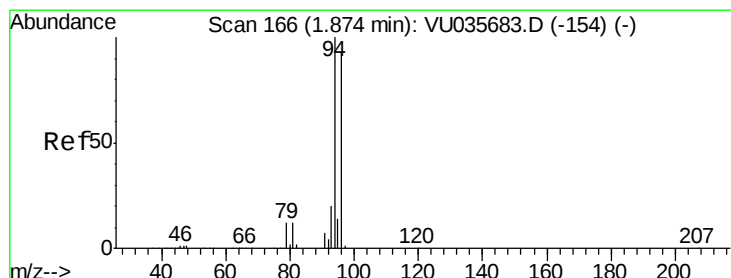
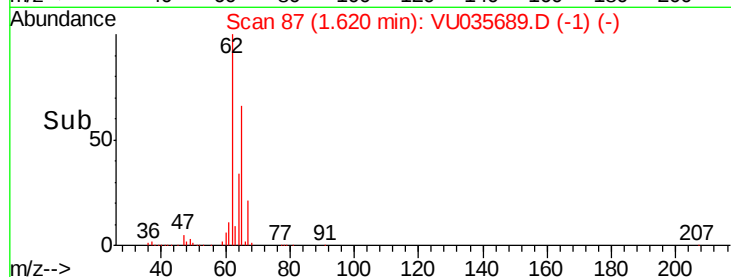
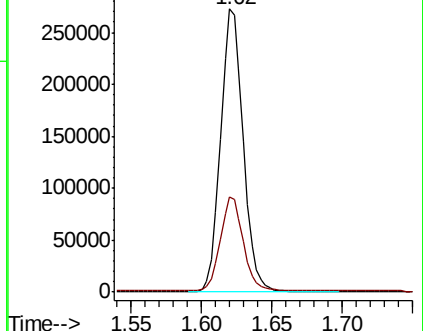
62 100

64 33.7 23.7 43.9



Abundance Ion 62.00 (61.70 to 62.70): VU035689.D (-78) (-)

Ion 64.00 (63.70 to 64.70): VU035689.D (-78) (-)



#6

Bromomethane

Concen: 53.608 ug/L

RT: 1.87 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU035689.D

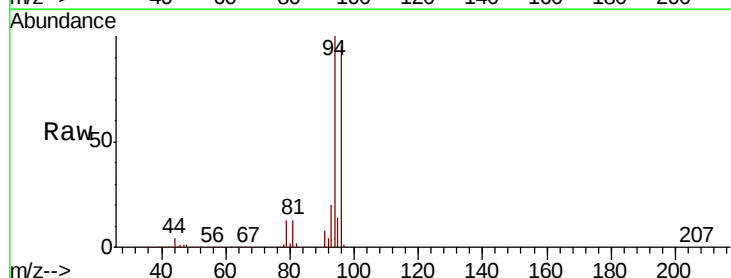
Acq: 12 Nov 2019 09:59

Tgt Ion: 94 Resp: 178413

Ion Ratio Lower Upper

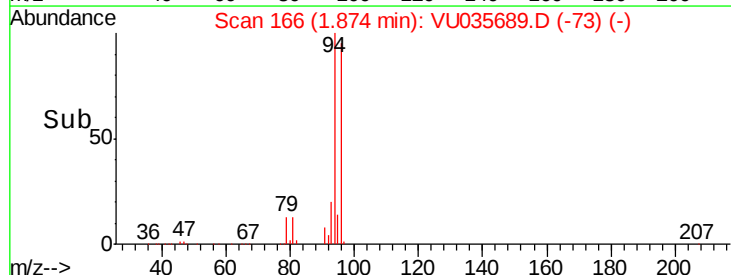
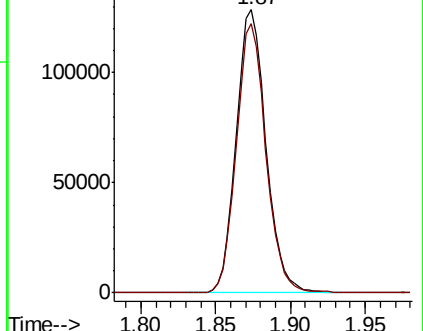
94 100

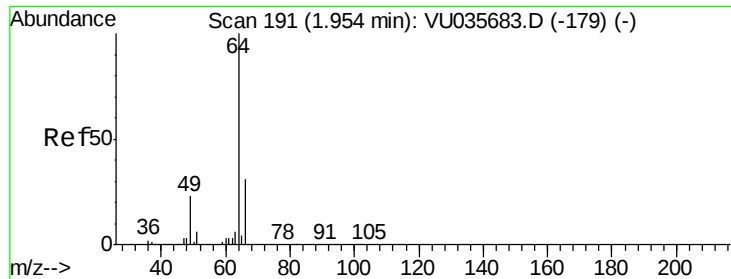
96 95.3 67.5 125.4



Abundance Ion 94.00 (93.70 to 94.70): VU035689.D (-154) (-)

Ion 96.00 (95.70 to 96.70): VU035689.D (-154) (-)

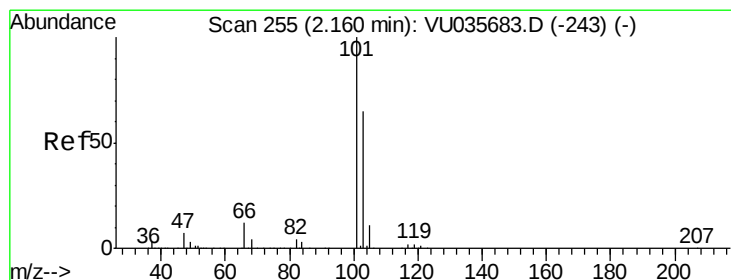
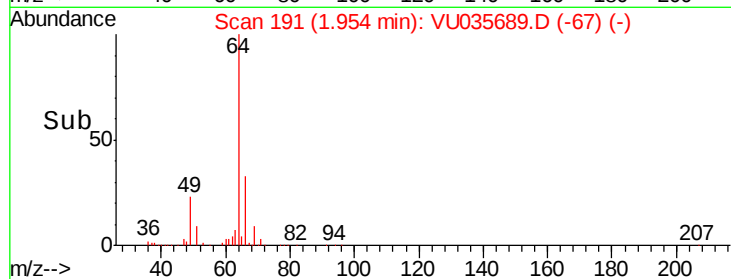
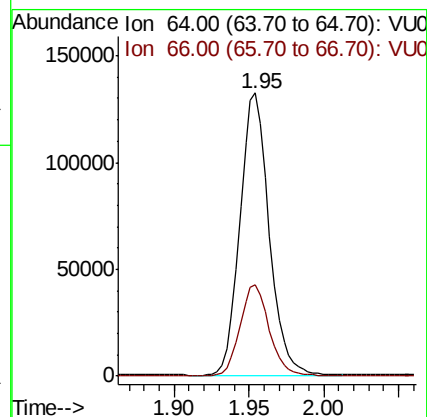
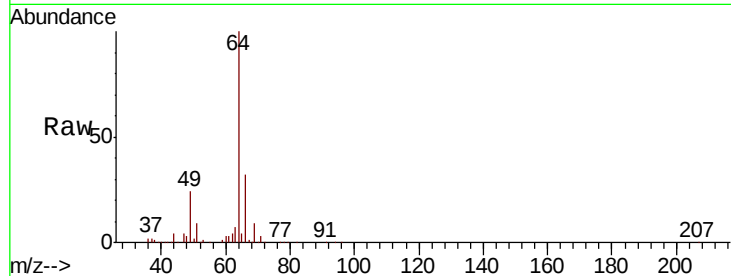




#8
Chloroethane
Concen: 46.882 ug/L
RT: 1.95 min Scan# 191
Delta R.T. -0.00 min
Lab File: VU035689.D
Acq: 12 Nov 2019 09:59

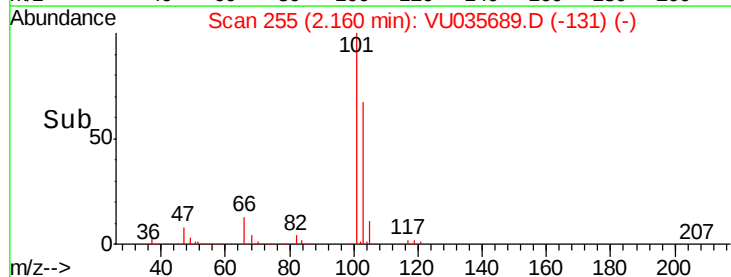
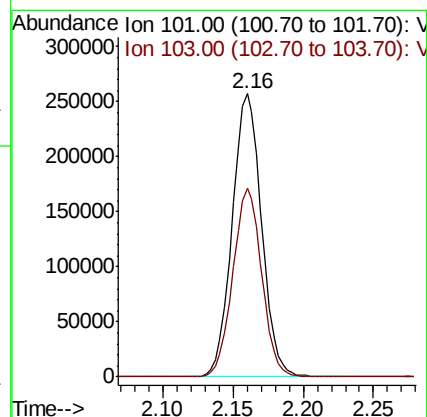
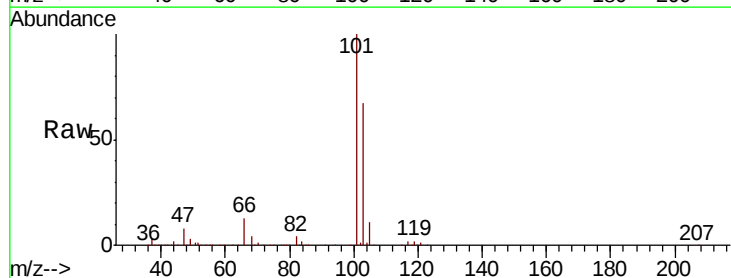
Instrument :
MSVOA_U
ClientSampled :

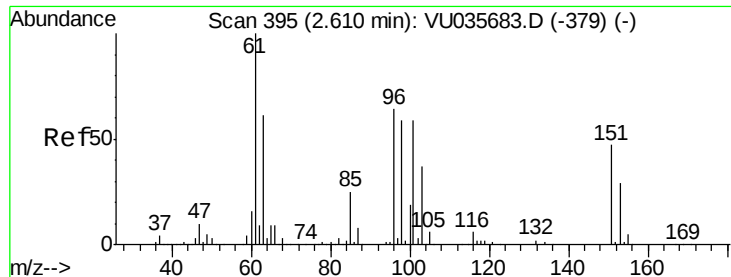
Tot Ion: 64 Resp: 179163
Ion Ratio Lower Upper
64 100
66 32.1 22.8 42.4



#9
Trichlorofluoromethane
Concen: 48.140 ug/L
RT: 2.16 min Scan# 255
Delta R.T. -0.00 min
Lab File: VU035689.D
Acq: 12 Nov 2019 09:59

Tgt Ion:101 Resp: 374691
Ion Ratio Lower Upper
101 100
103 65.7 51.8 77.6





#10

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

Concen: 49.467 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU035689.D

Acq: 12 Nov 2019 09:59

Instrument :

MSVOA_U

ClientSampleId :

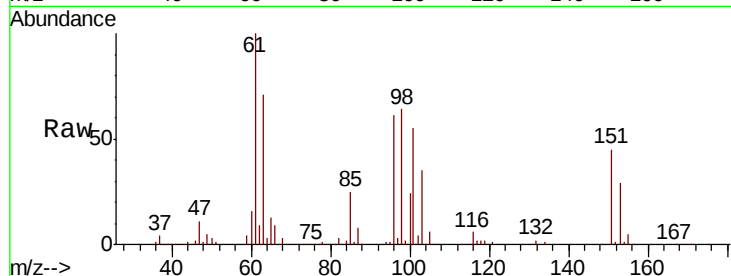
Tot Ion:101 Resp: 221037

Ion Ratio Lower Upper

101 100

85 43.2 34.0 51.0

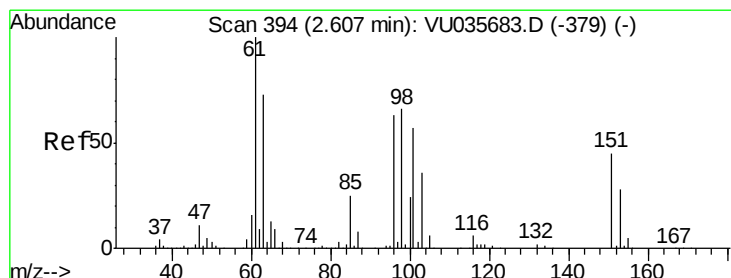
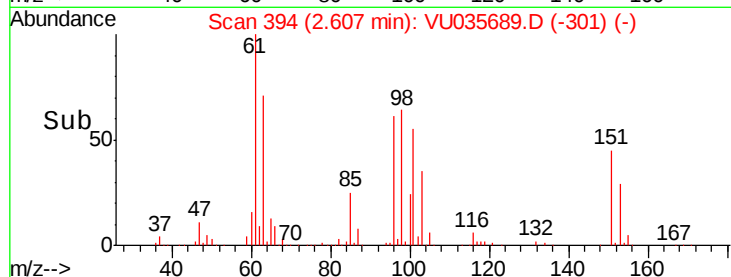
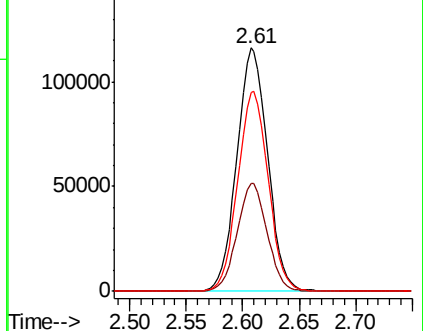
151 81.2 64.2 96.4



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: 48.308 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU035689.D

Acq: 12 Nov 2019 09:59

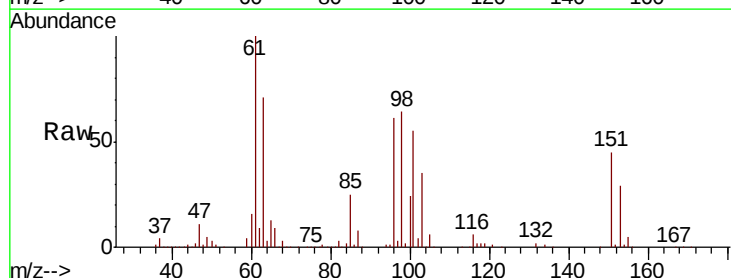
Tgt Ion: 96 Resp: 212021

Ion Ratio Lower Upper

96 100

61 162.8 113.1 210.1

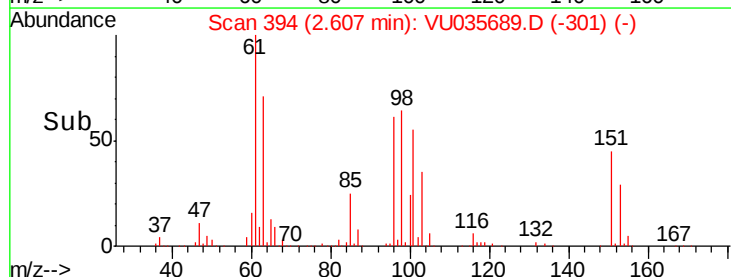
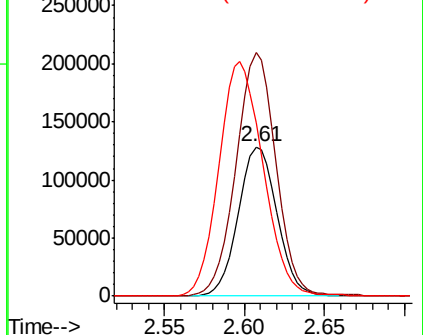
63 116.0 76.2 141.4

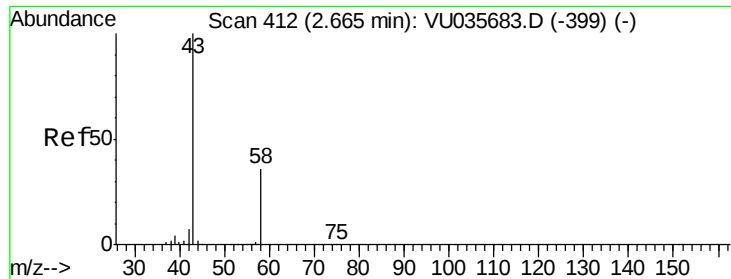


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 112.337 ug/L

RT: 2.66 min Scan# 412

Delta R.T. -0.00 min

Lab File: VU035689.D

Acq: 12 Nov 2019 09:59

Instrument :

MSVOA_U

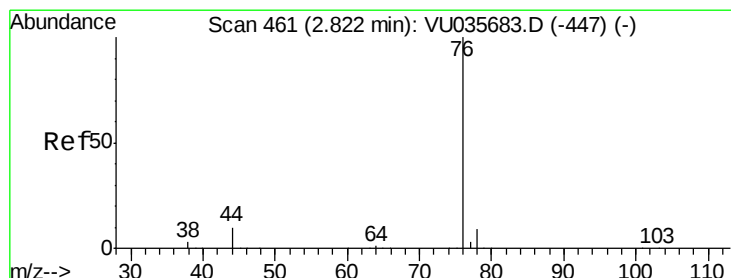
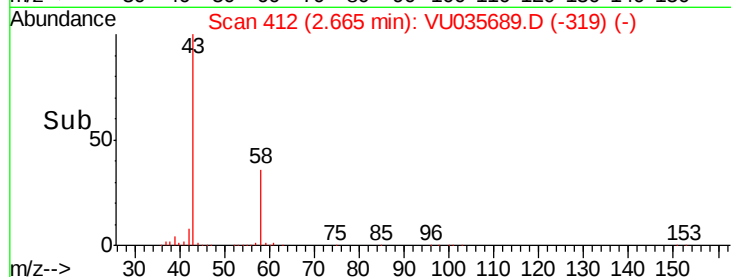
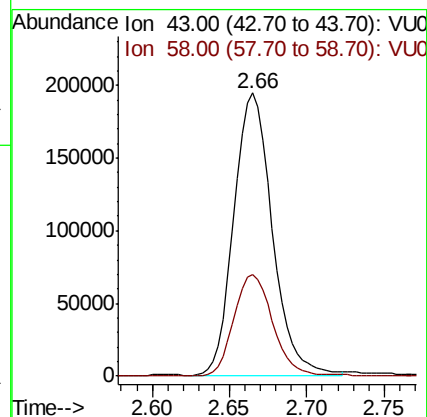
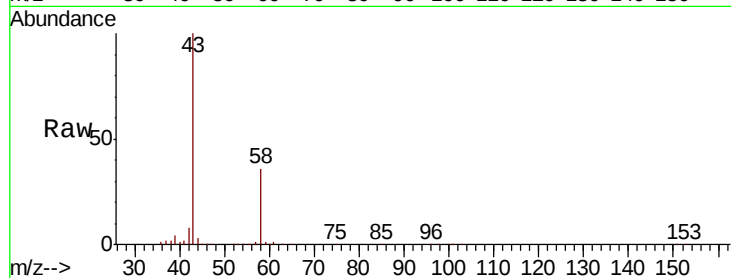
ClientSampleId :

Tot Ion: 43 Resp: 335024

Ion Ratio Lower Upper

43 100

58 36.3 0.0 70.0



#14

Carbon disulfide

Concen: 46.789 ug/L

RT: 2.82 min Scan# 461

Delta R.T. -0.00 min

Lab File: VU035689.D

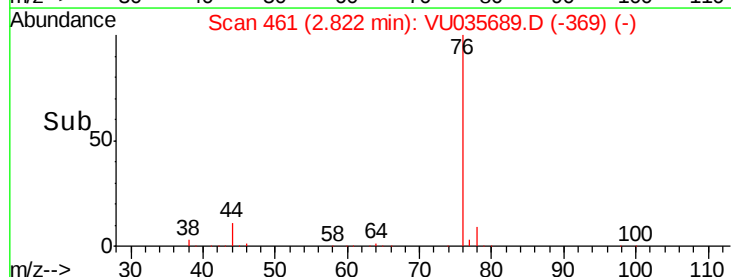
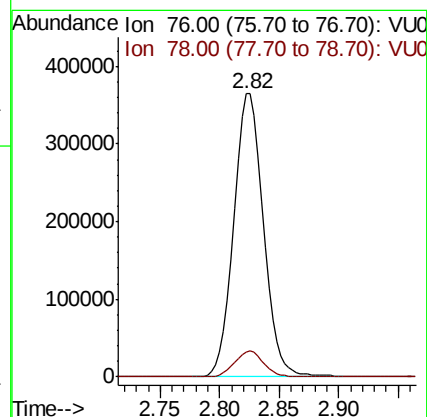
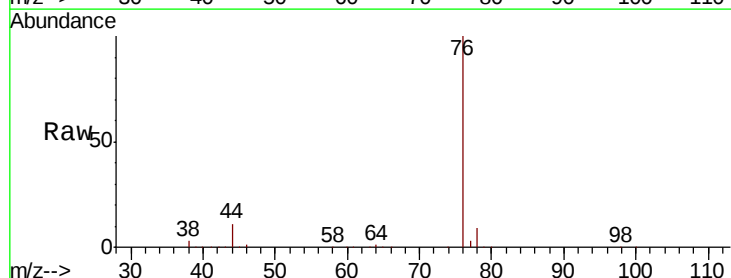
Acq: 12 Nov 2019 09:59

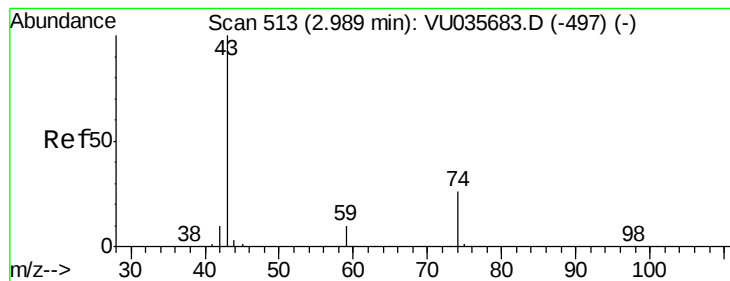
Tgt Ion: 76 Resp: 632673

Ion Ratio Lower Upper

76 100

78 8.8 7.4 11.0





#15

Methyl Acetate

Concen: 46.125 ug/L

RT: 2.99 min Scan# 513

Delta R.T. -0.00 min

Lab File: VU035689.D

Acq: 12 Nov 2019 09:59

Instrument :

MSVOA_U

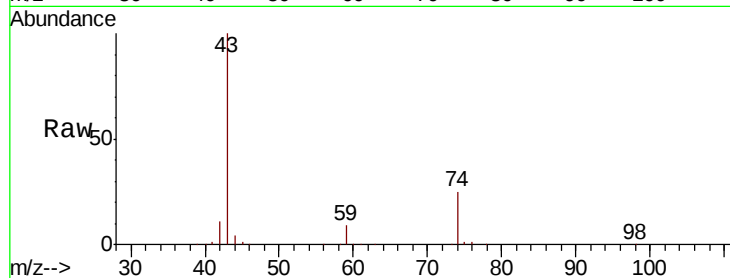
ClientSampled :

Tot Ion: 43 Resp: 249153

Ion Ratio Lower Upper

43 100

74 25.9 19.8 29.6



Abundance Ion 43.00 (42.70 to 43.70): VU035689.D (-421) (-)

Ion 74.00 (73.70 to 74.70): VU035689.D (-421) (-)

2.99

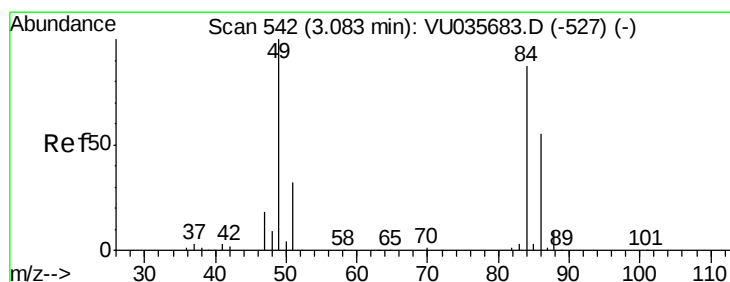
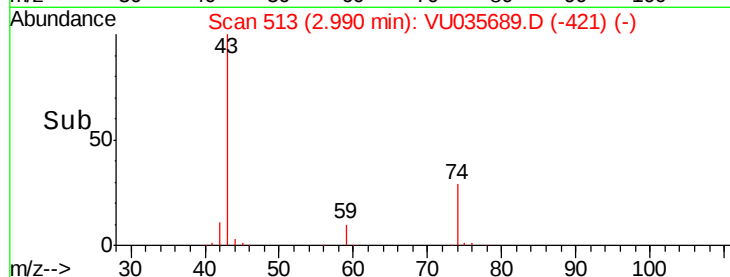
150000

100000

50000

0

Time-->



#16

Methylene chloride

Concen: 47.152 ug/L

RT: 3.08 min Scan# 542

Delta R.T. -0.00 min

Lab File: VU035689.D

Acq: 12 Nov 2019 09:59

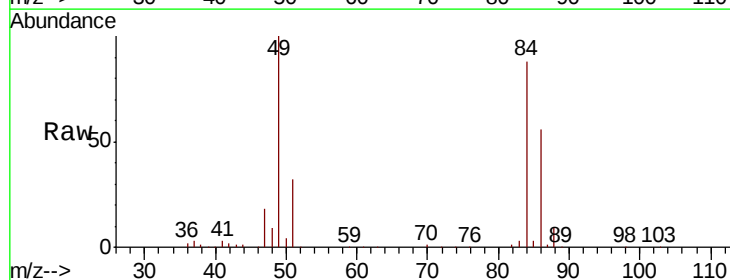
Tgt Ion: 84 Resp: 252511

Ion Ratio Lower Upper

84 100

86 63.3 45.1 83.7

49 113.8 82.7 153.5



Abundance Ion 84.00 (83.70 to 84.70): VU035689.D (-449) (-)

Ion 86.00 (85.70 to 86.70): VU035689.D (-449) (-)

Ion 49.00 (48.70 to 49.70): VU035689.D (-449) (-)

3.08

200000

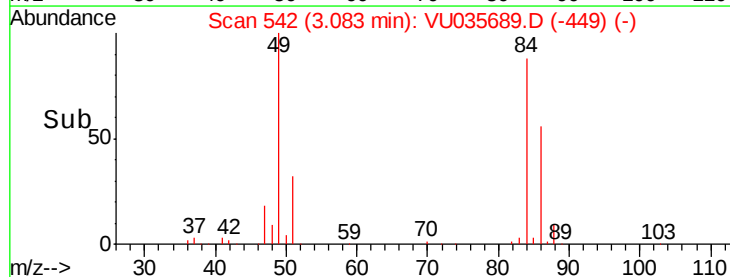
150000

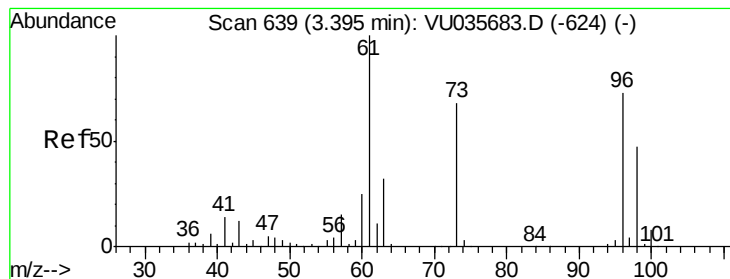
100000

50000

0

Time-->





#17

trans-1,2-Dichloroethene

Concen: 48.881 ug/L

RT: 3.39 min Scan# 639

Delta R.T. -0.00 min

Lab File: VU035689.D

Acq: 12 Nov 2019 09:59

Instrument :

MSVOA_U

ClientSampleId :

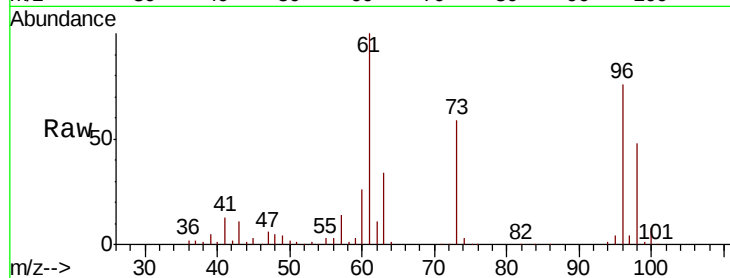
Tot Ion: 96 Resp: 225923

Ion Ratio Lower Upper

96 100

61 131.1 95.3 176.9

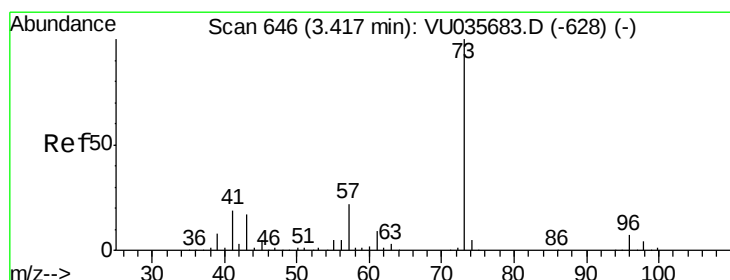
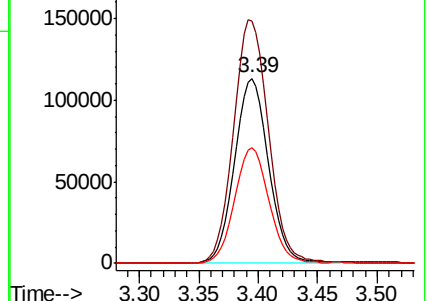
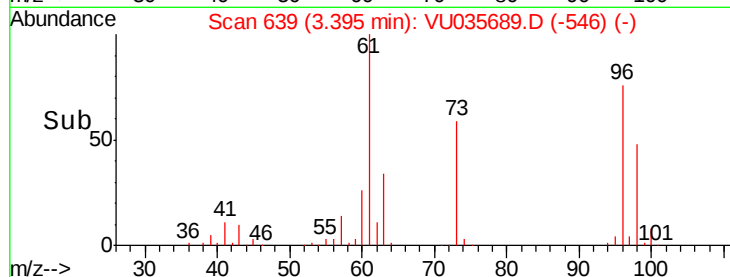
98 62.4 44.0 81.8



Abundance Ion 96.00 (95.70 to 96.70): VU035689.D (-546) (-)

Ion 61.00 (60.70 to 61.70): VU035689.D (-546) (-)

Ion 98.00 (97.70 to 98.70): VU035689.D (-546) (-)



#18

Methyl tert-butyl Ether

Concen: 48.591 ug/L

RT: 3.42 min Scan# 646

Delta R.T. -0.00 min

Lab File: VU035689.D

Acq: 12 Nov 2019 09:59

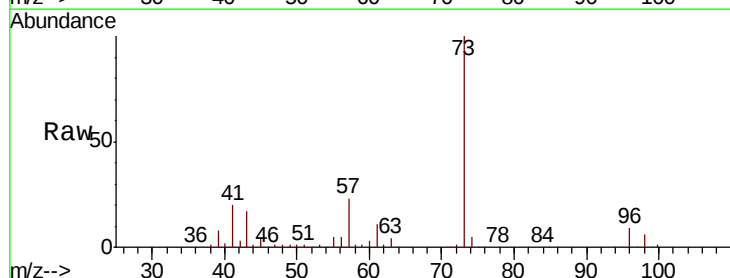
Tgt Ion: 73 Resp: 678989

Ion Ratio Lower Upper

73 100

43 17.2 14.2 21.2

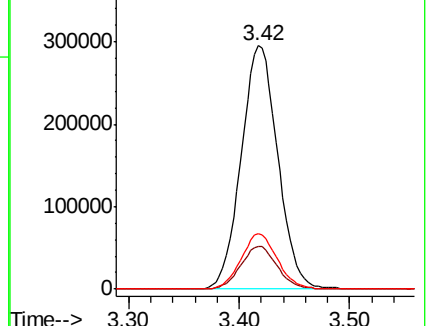
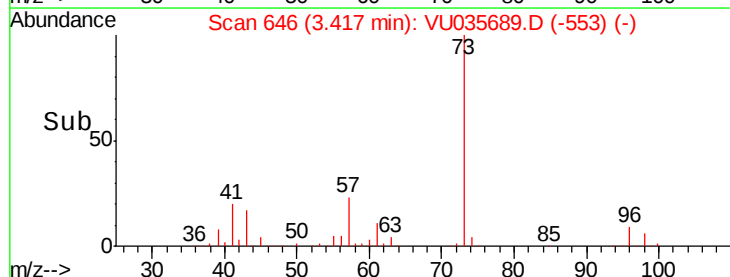
57 22.5 18.3 27.5

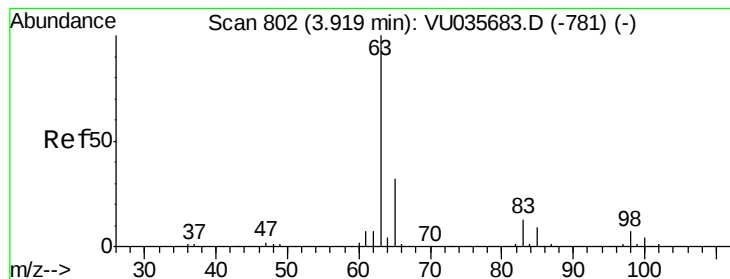


Abundance Ion 73.00 (72.70 to 73.70): VU035689.D (-553) (-)

Ion 43.00 (42.70 to 43.70): VU035689.D (-553) (-)

Ion 57.00 (56.70 to 57.70): VU035689.D (-553) (-)





#19

1,1-Dichloroethane

Concen: 47.350 ug/L

RT: 3.92 min Scan# 802

Delta R.T. -0.00 min

Lab File: VU035689.D

Acq: 12 Nov 2019 09:59

Instrument :

MSVOA_U

ClientSampleId :

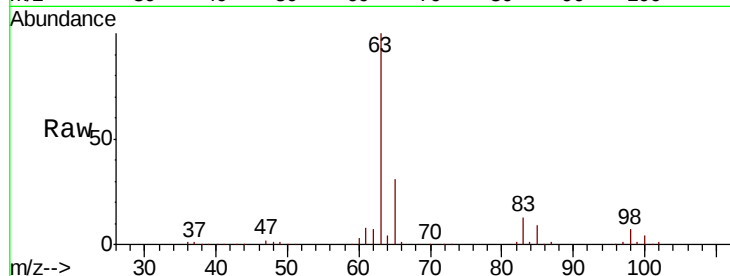
Tot Ion: 63 Resp: 422159

Ion Ratio Lower Upper

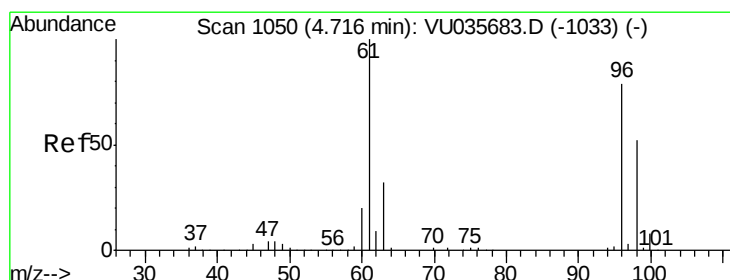
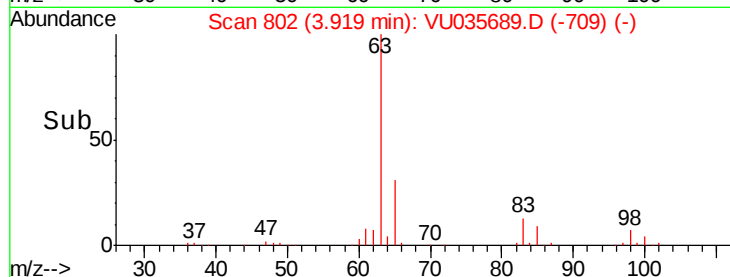
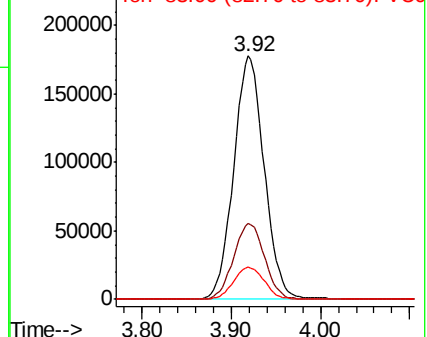
63 100

65 31.3 22.1 41.1

83 13.2 9.1 16.9



Abundance Ion 63.00 (62.70 to 63.70): VU0
Ion 65.00 (64.70 to 65.70): VU0
Ion 83.00 (82.70 to 83.70): VU0



#20

cis-1,2-Dichloroethene

Concen: 47.793 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VU035689.D

Acq: 12 Nov 2019 09:59

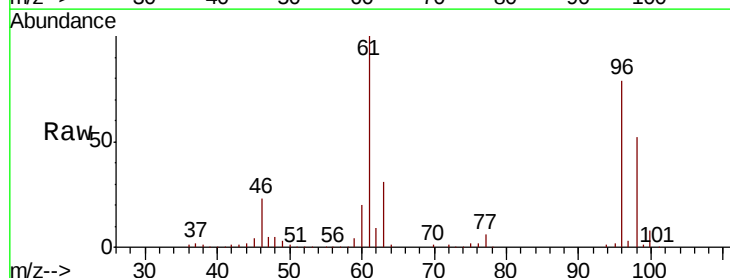
Tgt Ion: 96 Resp: 249149

Ion Ratio Lower Upper

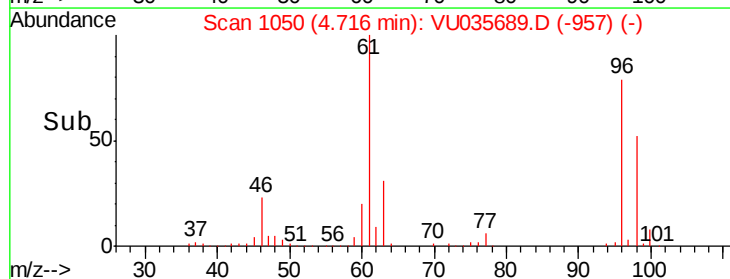
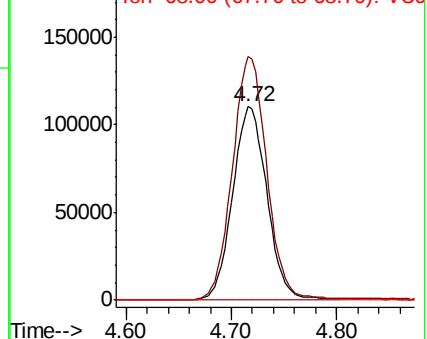
96 100

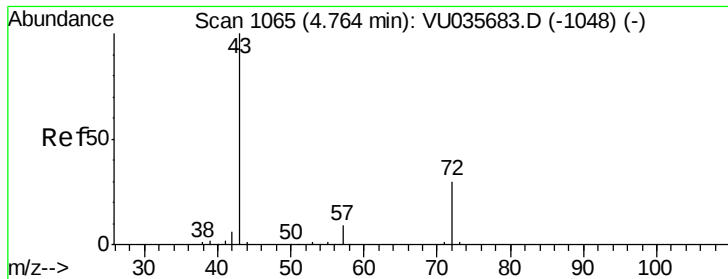
61 126.1 90.6 168.3

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 102.180 ug/L

RT: 4.77 min Scan# 1066

Delta R.T. -0.00 min

Lab File: VU035689.D

Acq: 12 Nov 2019 09:59

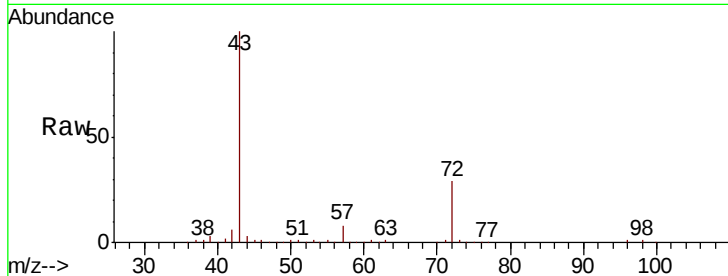
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 402266

Ion Ratio Lower Upper

43 100

72 28.7 13.5 40.4



Abundance Ion 43.00 (42.70 to 43.70): VU035689.D (-973) (-)

Ion 72.00 (71.70 to 72.70): VU035689.D (-973) (-)

4.77

200000

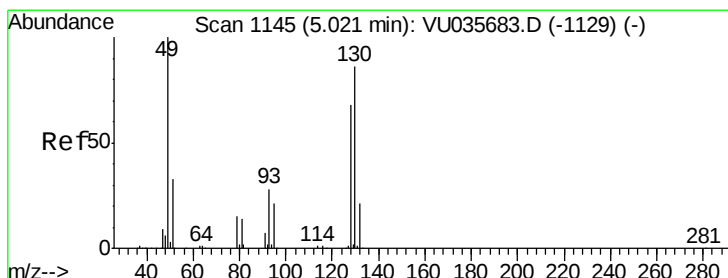
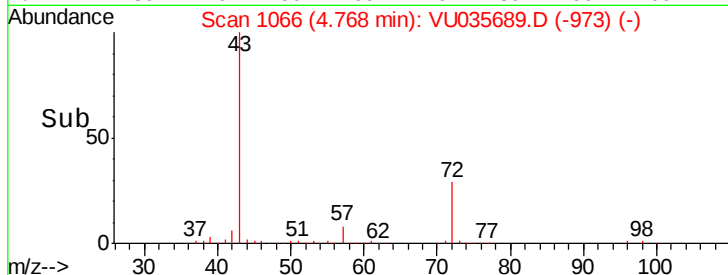
150000

100000

50000

0

Time-->



#23

Bromochloromethane

Concen: 49.455 ug/L

RT: 5.02 min Scan# 1146

Delta R.T. -0.00 min

Lab File: VU035689.D

Acq: 12 Nov 2019 09:59

Tgt Ion:128 Resp: 136237

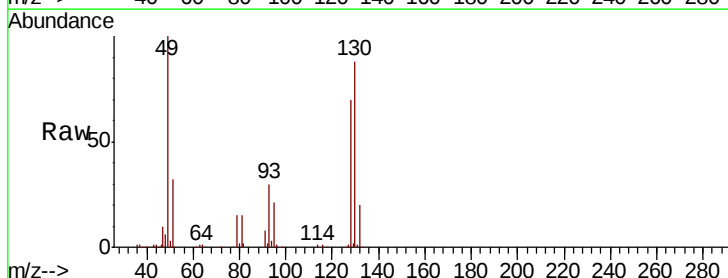
Ion Ratio Lower Upper

128 100

49 142.3 106.4 197.6

130 125.7 88.1 163.5

51 45.8 38.8 58.2



Abundance Ion 128.00 (127.70 to 128.70): VU035689.D (-1053) (-)

Ion 49.00 (48.70 to 49.70): VU035689.D (-1053) (-)

Ion 130.00 (129.70 to 130.70): VU035689.D (-1053) (-)

Ion 51.00 (50.70 to 51.70): VU035689.D (-1053) (-)

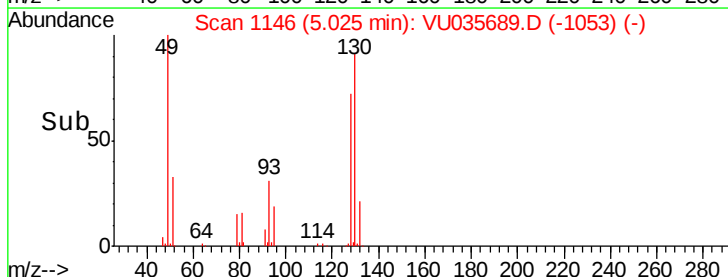
5.02

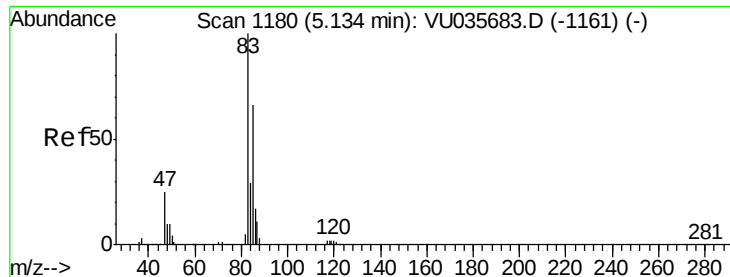
100000

50000

0

Time-->

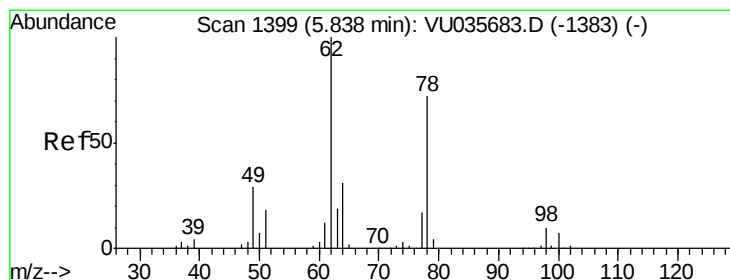
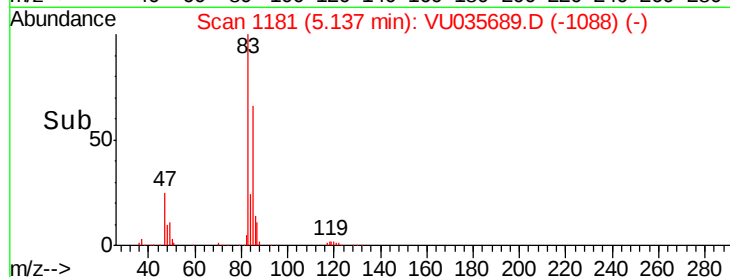
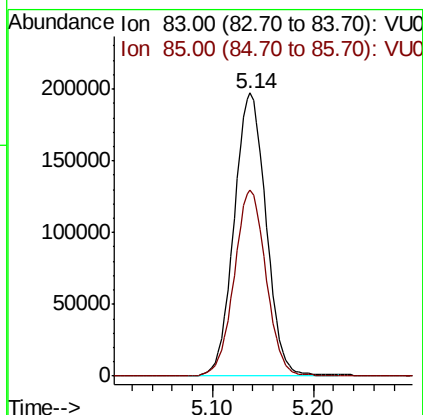
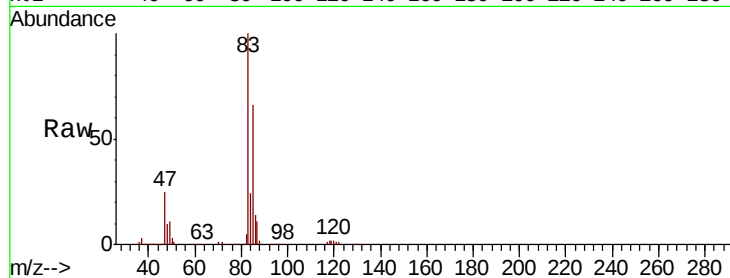




#25
Chloroform
Concen: 47.897 ug/L
RT: 5.14 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VU035689.D
Acq: 12 Nov 2019 09:59

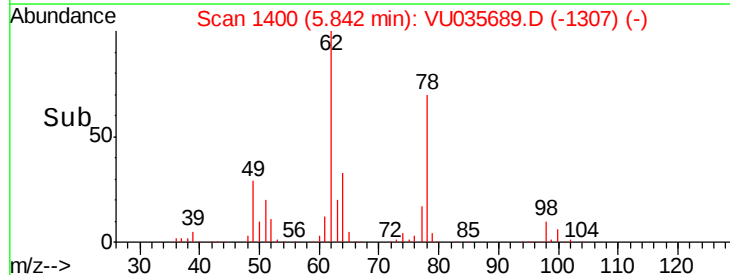
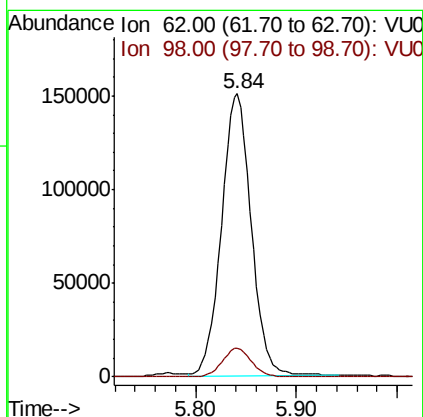
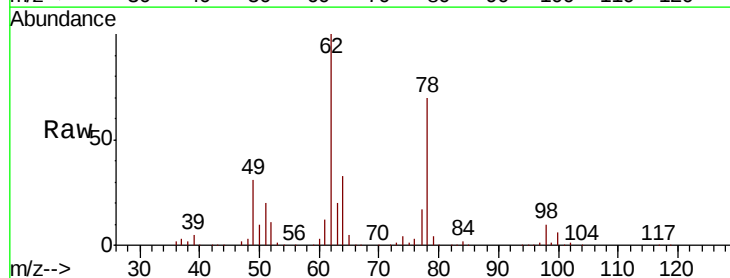
Instrument :
MSVOA_U
ClientSampled :

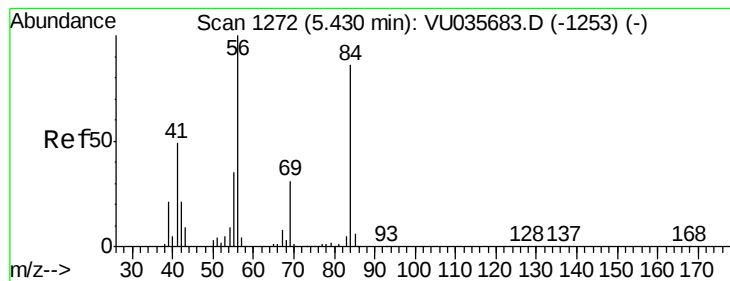
Tot Ion: 83 Resp: 433701
Ion Ratio Lower Upper
83 100
85 65.7 45.4 84.4



#27
1,2-Dichloroethane
Concen: 46.877 ug/L
RT: 5.84 min Scan# 1400
Delta R.T. -0.00 min
Lab File: VU035689.D
Acq: 12 Nov 2019 09:59

Tgt Ion: 62 Resp: 310103
Ion Ratio Lower Upper
62 100
98 10.2 8.2 12.2





#29

Cyclohexane

Concen: 50.743 ug/L

RT: 5.43 min Scan# 1273

Delta R.T. -0.00 min

Lab File: VU035689.D

Acq: 12 Nov 2019 09:59

Instrument :
MSVOA_U
ClientSampled :

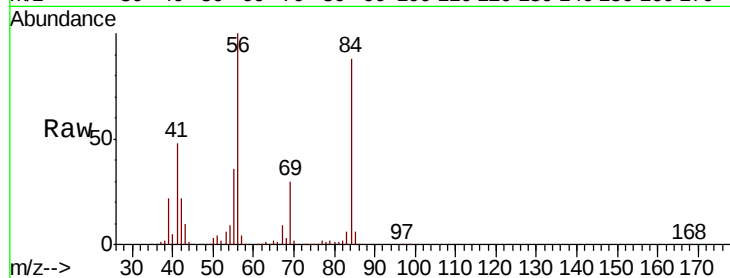
Tot Ion: 56 Resp: 359875

Ion Ratio Lower Upper

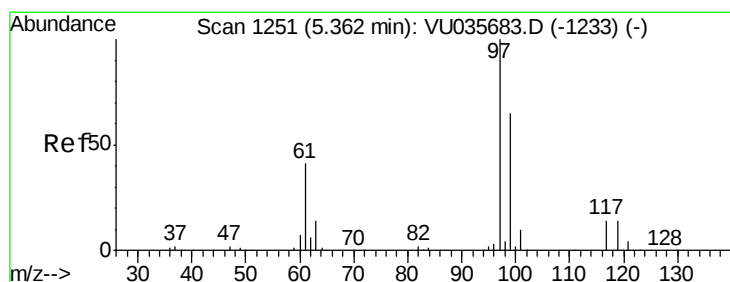
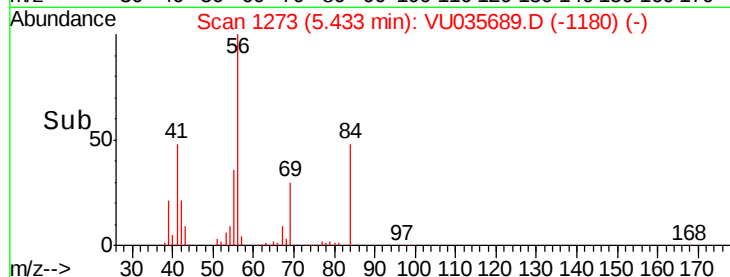
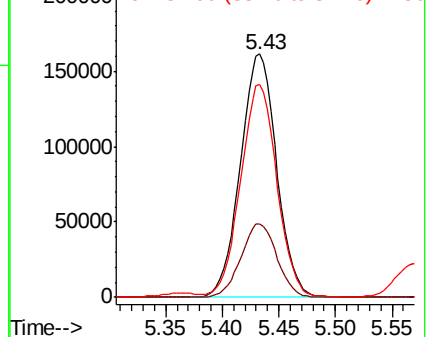
56 100

69 30.0 24.4 36.6

84 87.0 68.6 102.8



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: 49.071 ug/L

RT: 5.36 min Scan# 1251

Delta R.T. -0.00 min

Lab File: VU035689.D

Acq: 12 Nov 2019 09:59

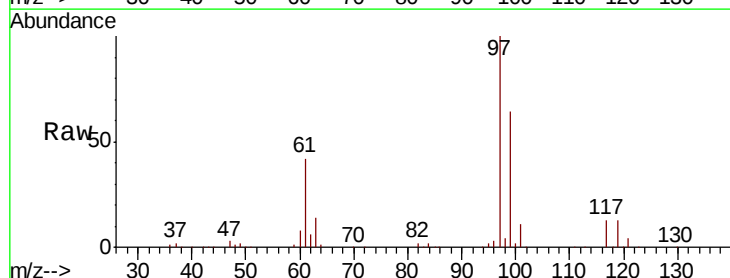
Tgt Ion: 97 Resp: 358617

Ion Ratio Lower Upper

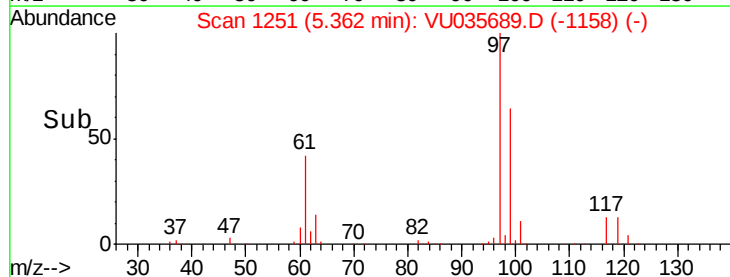
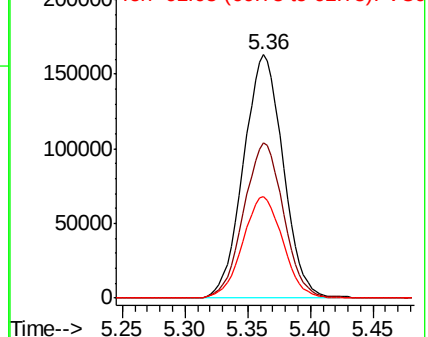
97 100

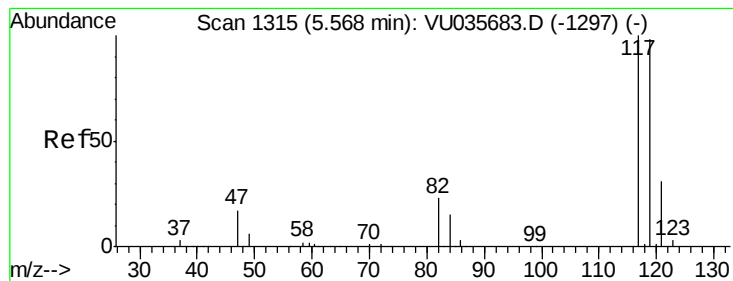
99 64.2 51.5 77.3

61 42.1 35.1 52.7



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: 49.233 ug/L

RT: 5.57 min Scan# 1315

Delta R.T. -0.00 min

Lab File: VU035689.D

Acq: 12 Nov 2019 09:59

Instrument :

MSVOA_U

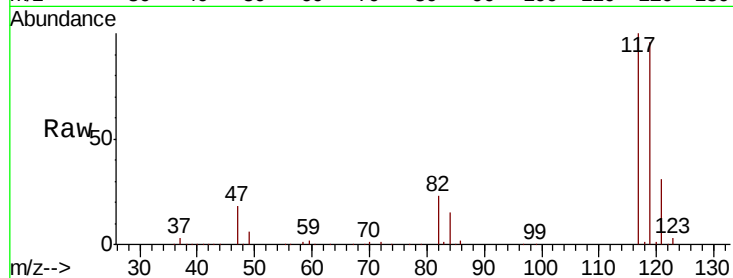
ClientSampleId :

Tot Ion:117 Resp: 319923

Ion Ratio Lower Upper

117 100

119 96.4 77.4 116.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

150000

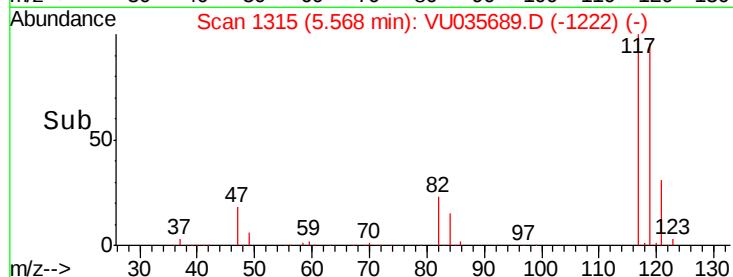
100000

50000

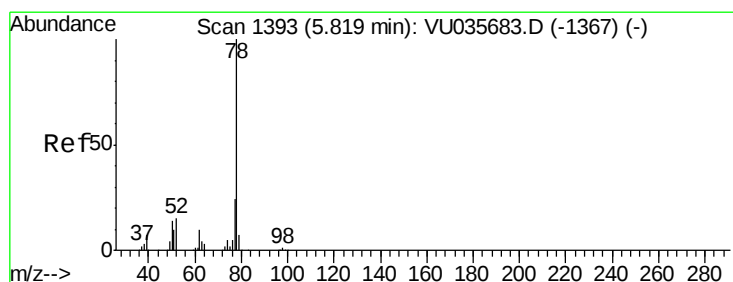
0

5.45 5.50 5.55 5.60 5.65

5.57



Time-->



#33

Benzene

Concen: 49.310 ug/L

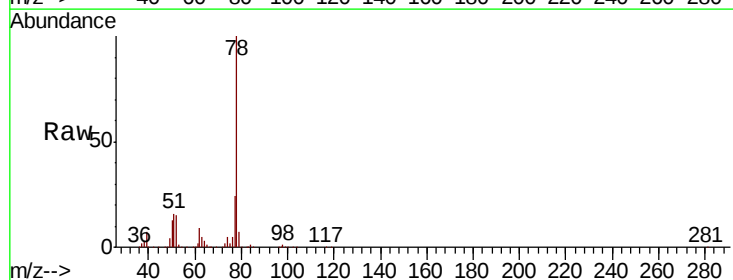
RT: 5.82 min Scan# 1393

Delta R.T. -0.00 min

Lab File: VU035689.D

Acq: 12 Nov 2019 09:59

Tgt Ion: 78 Resp: 963577



Abundance Ion 78.00 (77.70 to 78.70): VU0

500000

400000

300000

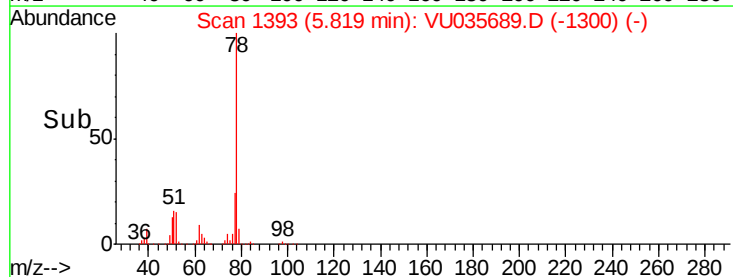
200000

100000

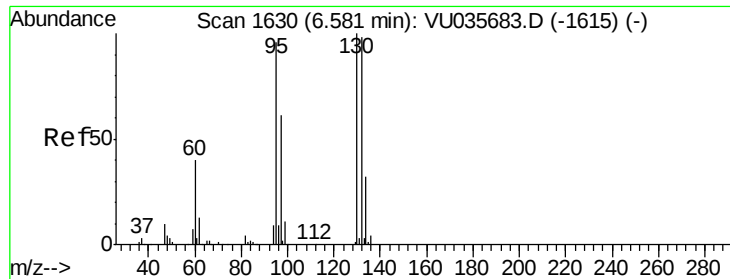
0

5.70 5.80 5.90

5.82



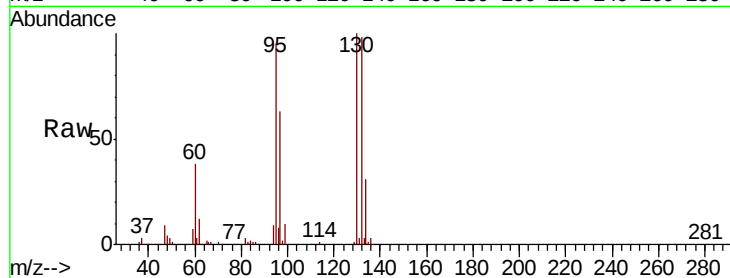
Time-->



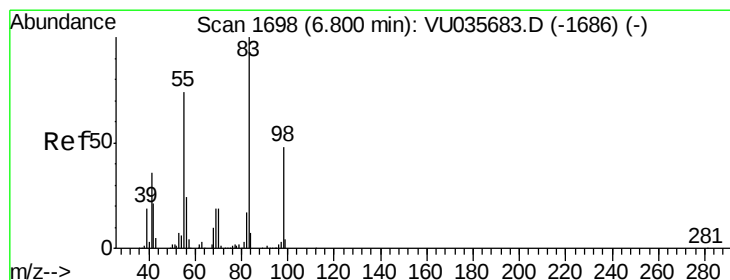
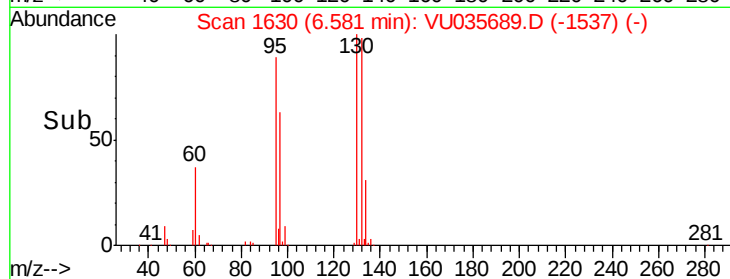
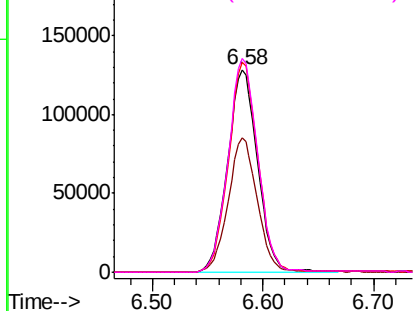
#34
 Trichloroethene
 Concen: 48.781 ug/L
 RT: 6.58 min Scan# 1630
 Delta R.T. -0.00 min
 Lab File: VU035689.D
 Acq: 12 Nov 2019 09:59

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 95 Resp: 242338
 Ion Ratio Lower Upper
 95 100
 97 66.2 45.6 84.6
 132 103.6 69.9 129.7
 130 105.3 73.1 135.7

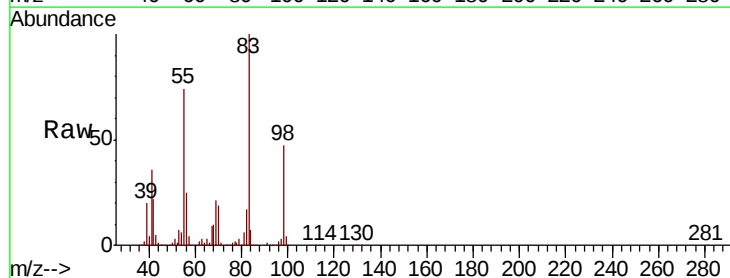


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

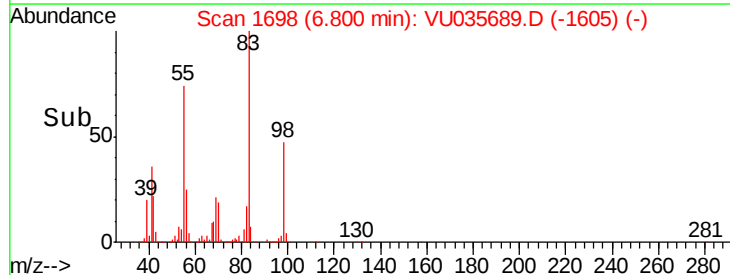
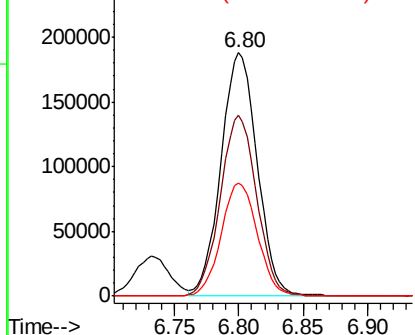


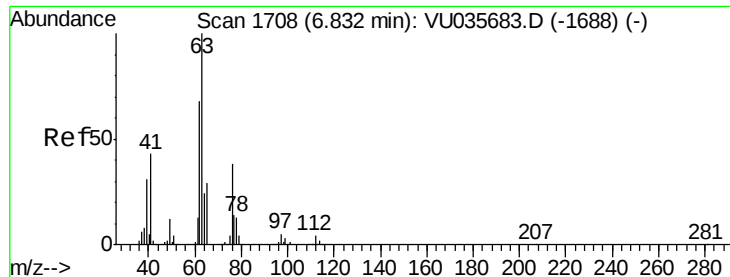
#35
 Methylcyclohexane
 Concen: 50.578 ug/L
 RT: 6.80 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VU035689.D
 Acq: 12 Nov 2019 09:59

Tgt Ion: 83 Resp: 364926
 Ion Ratio Lower Upper
 83 100
 55 75.0 61.0 91.4
 98 46.8 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: 48.713 ug/L

RT: 6.83 min Scan# 1708

Delta R.T. -0.00 min

Lab File: VU035689.D

Acq: 12 Nov 2019 09:59

Instrument :

MSVOA_U

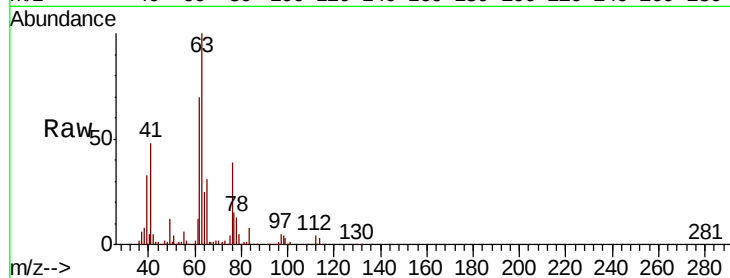
ClientSampled :

Tot Ion: 63 Resp: 254913

Ion Ratio Lower Upper

63 100

112 4.0 3.2 4.8



Abundance Ion 63.00 (62.70 to 63.70): VU035683.D (-1688) (-)

Ion 112.00 (111.70 to 112.70): VU035683.D (-1688) (-)

6.83

150000

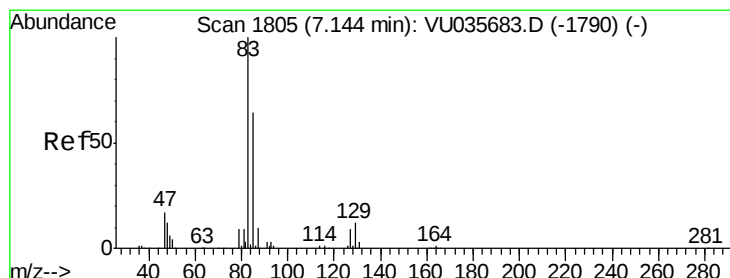
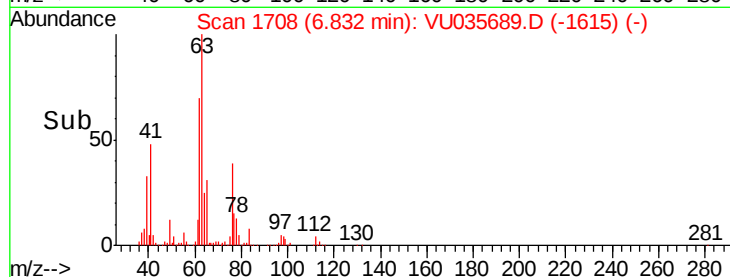
100000

50000

0

6.80 6.90

Time-->



#38

Bromodichloromethane

Concen: 47.981 ug/L

RT: 7.14 min Scan# 1805

Delta R.T. -0.00 min

Lab File: VU035689.D

Acq: 12 Nov 2019 09:59

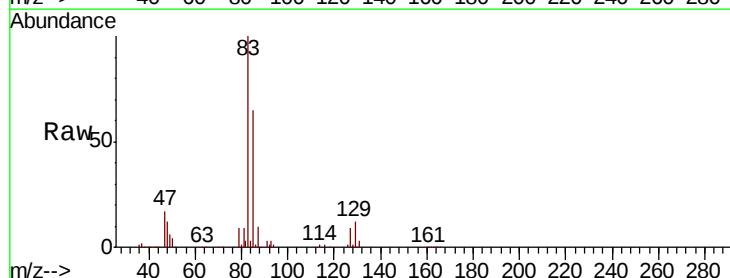
Tgt Ion: 83 Resp: 319146

Ion Ratio Lower Upper

83 100

85 65.3 45.1 83.7

127 9.3 7.2 10.8



Abundance Ion 83.00 (82.70 to 83.70): VU035683.D (-1790) (-)

Ion 85.00 (84.70 to 85.70): VU035683.D (-1790) (-)

Ion 127.00 (126.70 to 127.70): VU035683.D (-1790) (-)

7.14

200000

150000

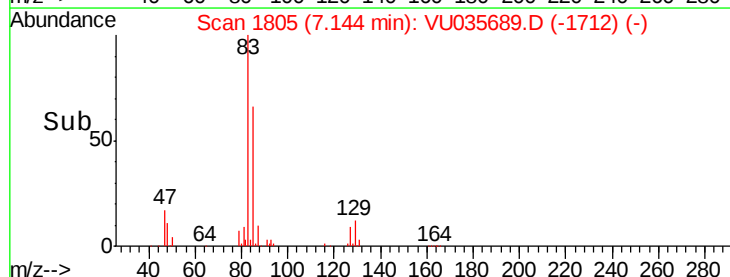
100000

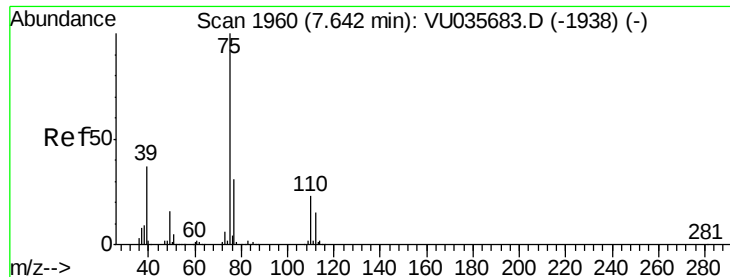
50000

0

7.05 7.10 7.15 7.20 7.25

Time-->

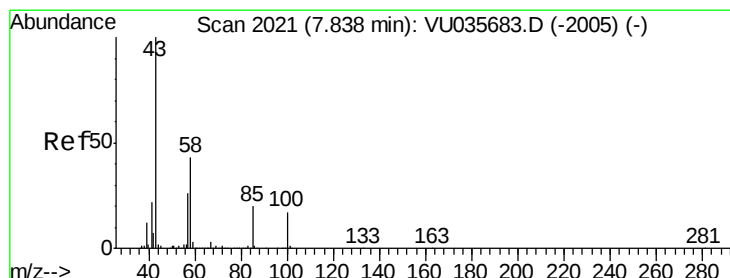
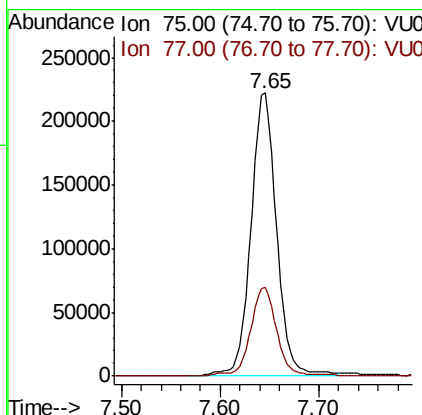
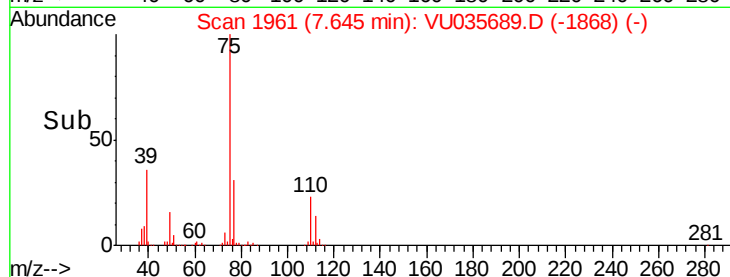
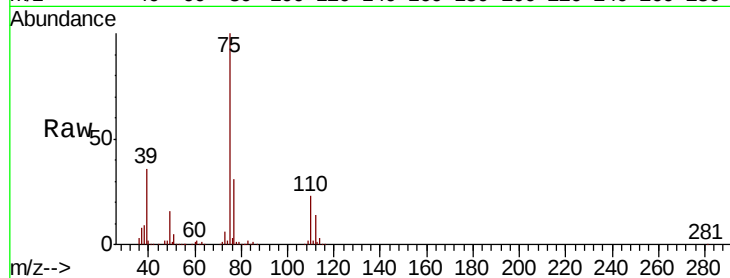




#39
 cis-1,3-Dichloropropene
 Concen: 51.376 ug/L
 RT: 7.65 min Scan# 1961
 Delta R.T. -0.00 min
 Lab File: VU035689.D
 Acq: 12 Nov 2019 09:59

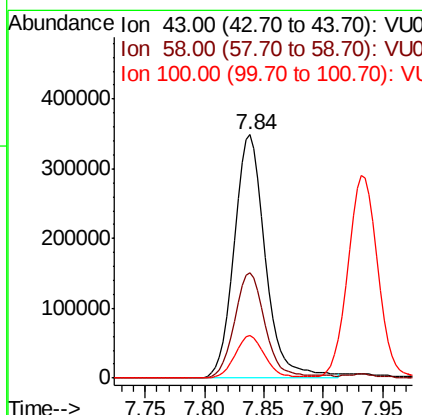
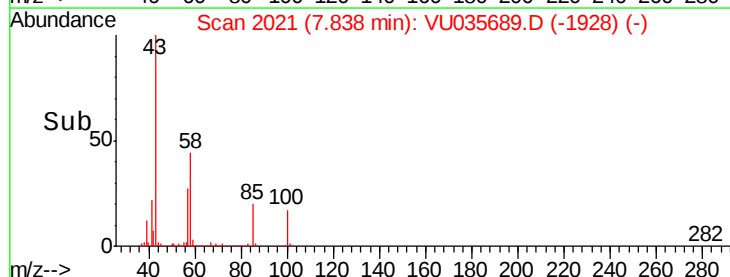
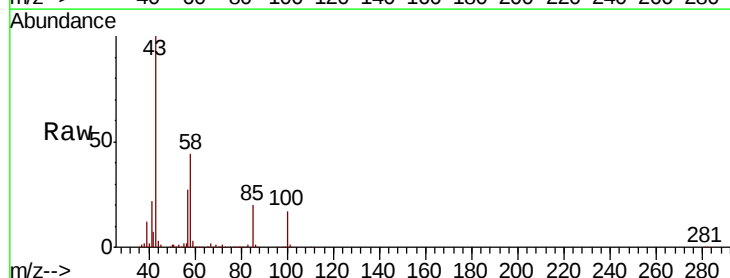
Instrument :
 MSVOA_U
 ClientSampled :

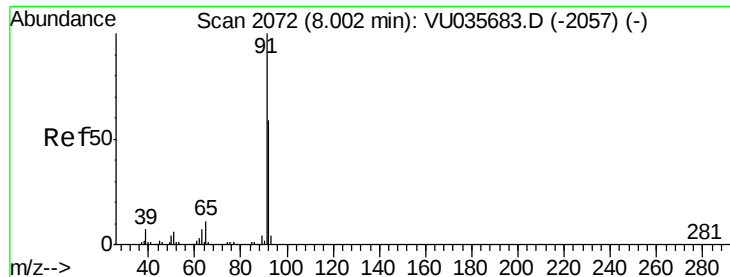
Tot Ion: 75 Resp: 399613
 Ion Ratio Lower Upper
 75 100
 77 31.2 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 90.796 ug/L
 RT: 7.84 min Scan# 2021
 Delta R.T. -0.00 min
 Lab File: VU035689.D
 Acq: 12 Nov 2019 09:59

Tgt Ion: 43 Resp: 635644
 Ion Ratio Lower Upper
 43 100
 58 43.0 32.6 49.0
 100 16.9 12.6 19.0





#42

Toluene

Concen: 51.357 ug/L

RT: 8.01 min Scan# 2073

Delta R.T. 0.00 min

Lab File: VU035689.D

Acq: 12 Nov 2019 09:59

Instrument :

MSVOA_U

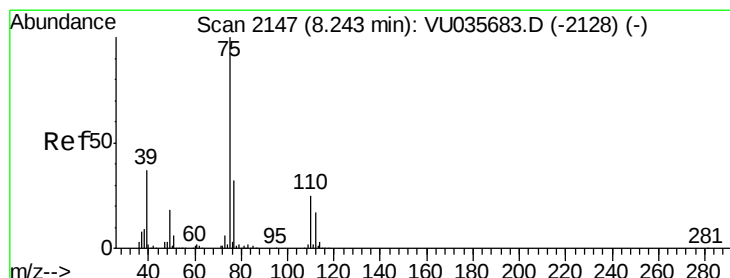
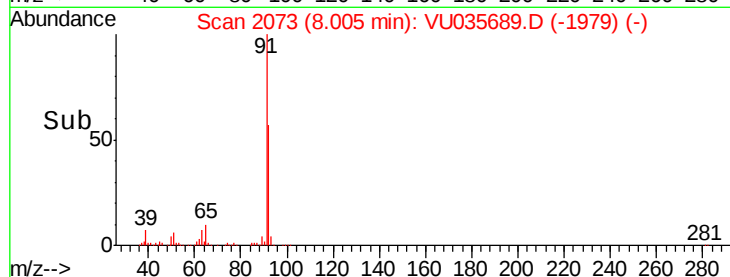
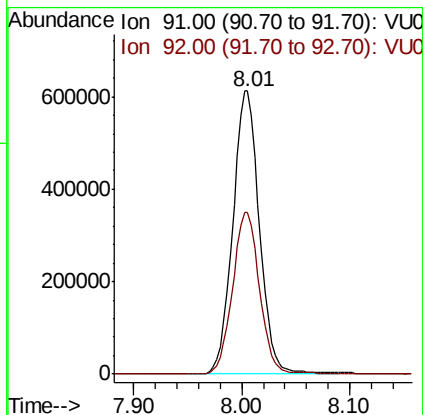
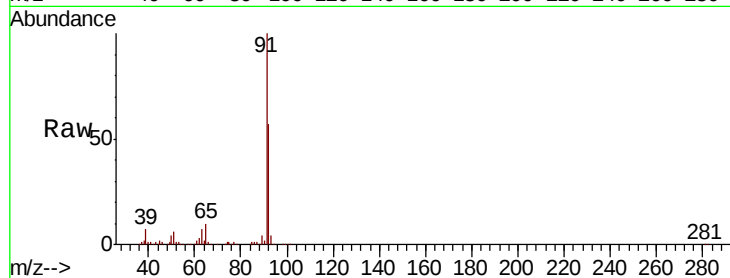
ClientSampleId :

Tot Ion: 91 Resp: 1051824

Ion Ratio Lower Upper

91 100

92 57.0 40.5 75.1



#44

trans-1,3-Dichloropropene

Concen: 50.126 ug/L

RT: 8.25 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VU035689.D

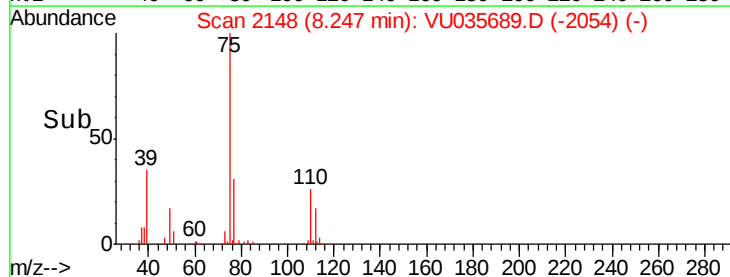
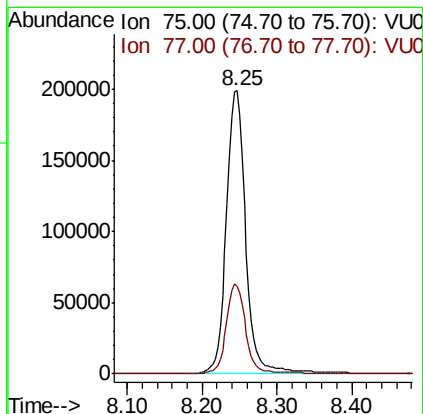
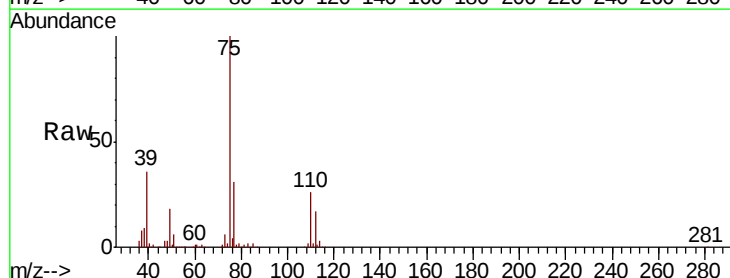
Acq: 12 Nov 2019 09:59

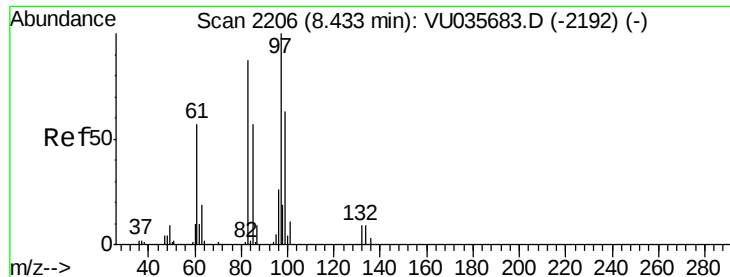
Tgt Ion: 75 Resp: 357392

Ion Ratio Lower Upper

75 100

77 31.1 22.1 41.1

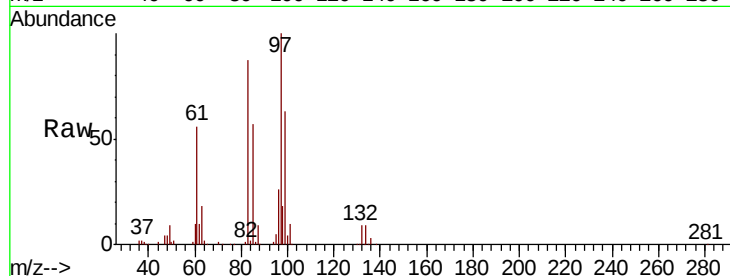




#45
 1,1,2-Trichloroethane
 Concen: 48.236 ug/L
 RT: 8.44 min Scan# 2207
 Delta R.T. 0.00 min
 Lab File: VU035689.D
 Acq: 12 Nov 2019 09:59

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
97	100		
99	62.6	44.2	82.2
83	87.0	61.5	114.3
85	57.0	39.3	73.1



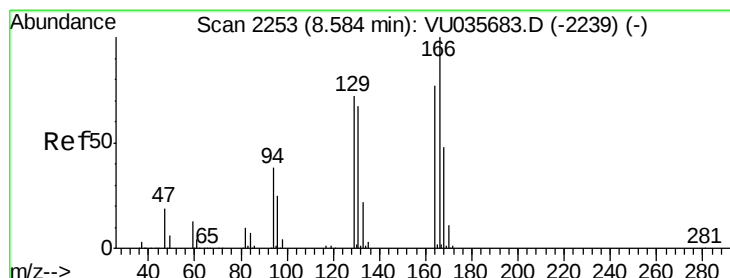
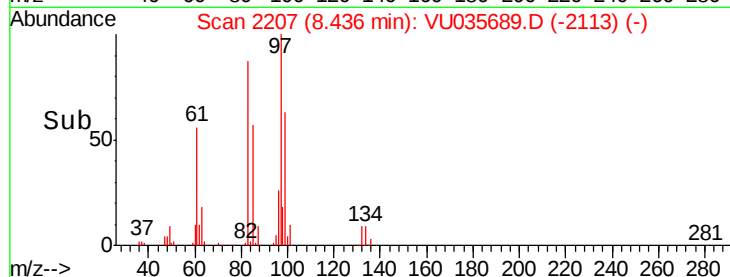
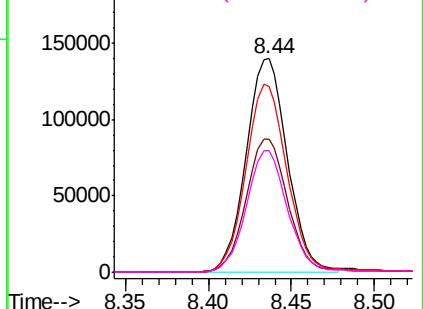
Abundance

Ion 97.00 (96.70 to 97.70): VU035689.D (-2192) (-)

Ion 99.00 (98.70 to 99.70): VU035689.D (-2192) (-)

Ion 83.00 (82.70 to 83.70): VU035689.D (-2192) (-)

Ion 85.00 (84.70 to 85.70): VU035689.D (-2192) (-)



#46
 Tetrachloroethene
 Concen: 51.561 ug/L
 RT: 8.58 min Scan# 2253
 Delta R.T. -0.00 min
 Lab File: VU035689.D
 Acq: 12 Nov 2019 09:59

Tgt Ion	Ratio	Lower	Upper
164	100		
129	90.0	64.1	119.1
131	87.7	63.1	117.1
166	128.9	88.5	164.3

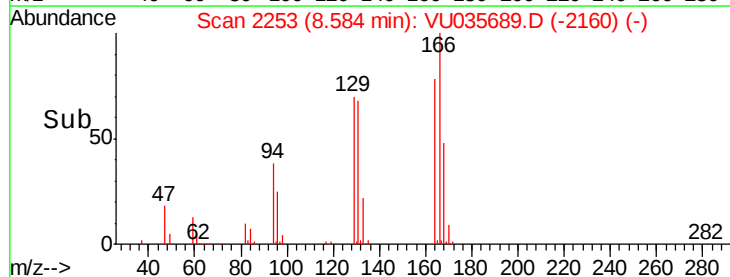
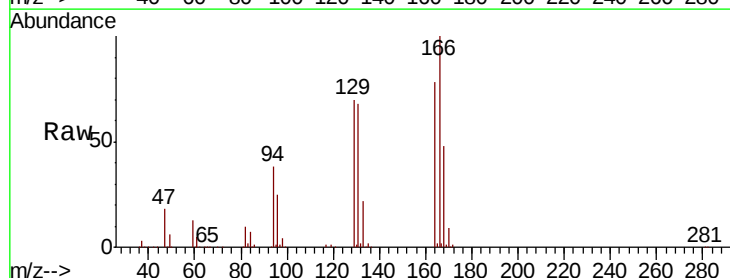
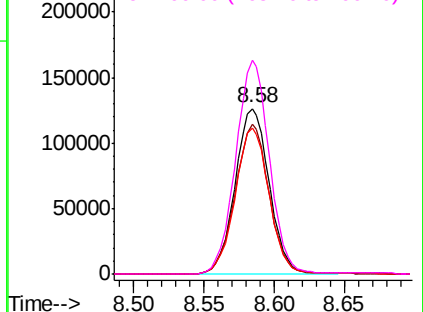
Abundance

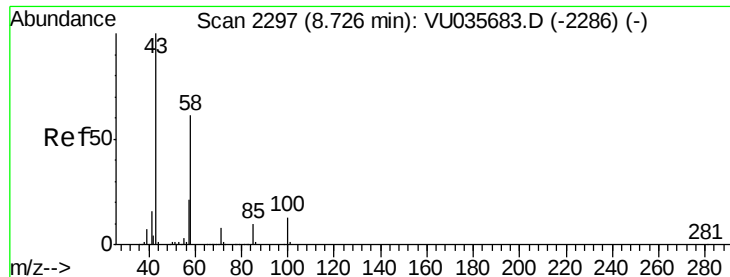
Ion 164.00 (163.70 to 164.70): VU035689.D (-2239) (-)

Ion 129.00 (128.70 to 129.70): VU035689.D (-2239) (-)

Ion 131.00 (130.70 to 131.70): VU035689.D (-2239) (-)

Ion 166.00 (165.70 to 166.70): VU035689.D (-2239) (-)

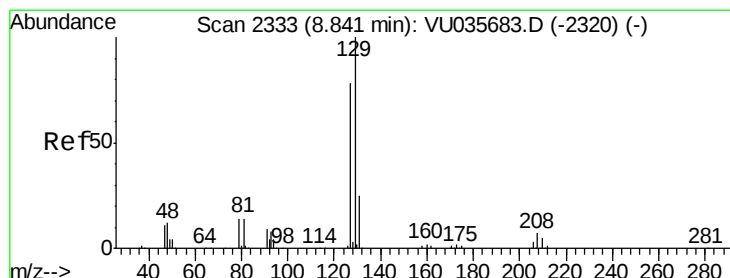
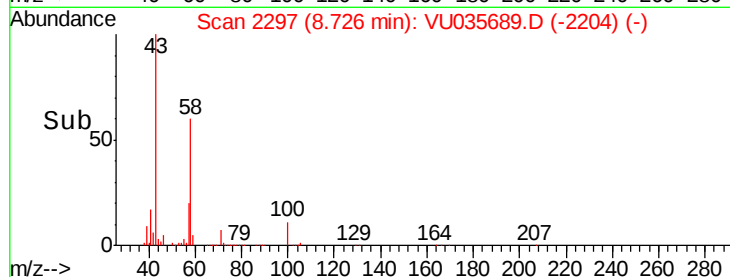
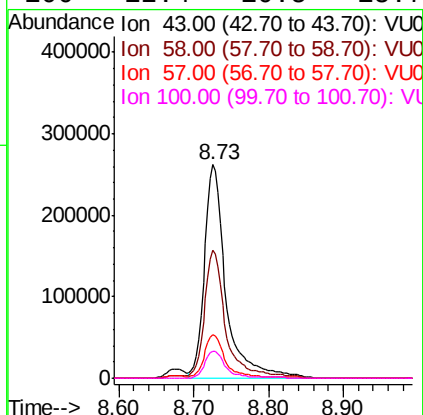
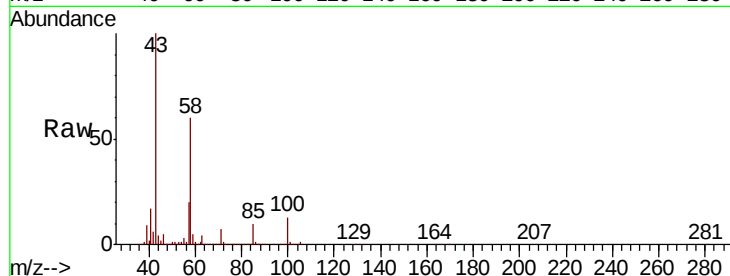




#48
2-Hexanone
Concen: 92.247 ug/L
RT: 8.73 min Scan# 2297
Delta R.T. -0.00 min
Lab File: VU035689.D
Acq: 12 Nov 2019 09:59

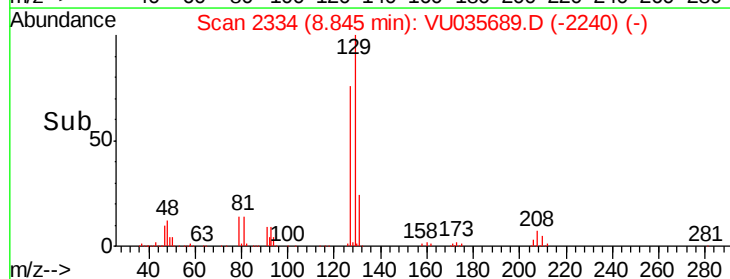
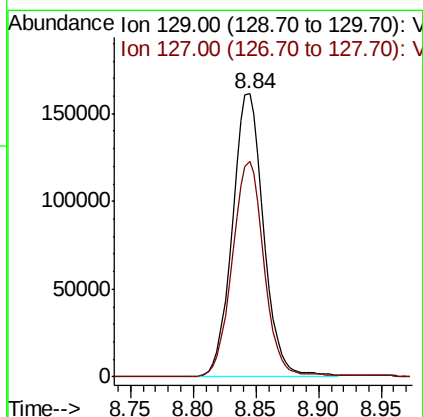
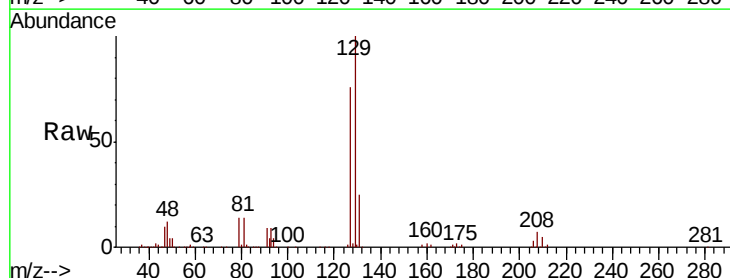
Instrument :
MSVOA_U
ClientSampleId :

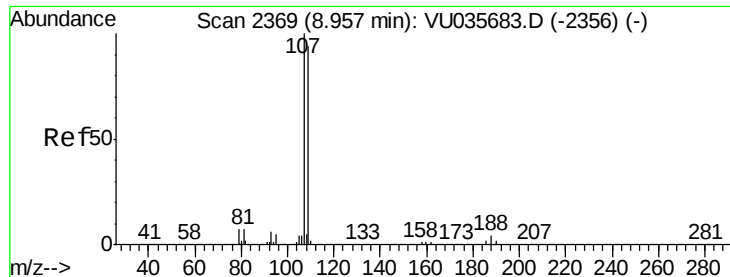
Tot Ion	Ratio	Lower	Upper
43	100		
58	59.7	50.4	75.6
57	20.7	17.4	26.0
100	12.4	10.5	15.7



#49
Dibromochloromethane
Concen: 49.445 ug/L
RT: 8.84 min Scan# 2334
Delta R.T. 0.00 min
Lab File: VU035689.D
Acq: 12 Nov 2019 09:59

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.3	54.9	101.9

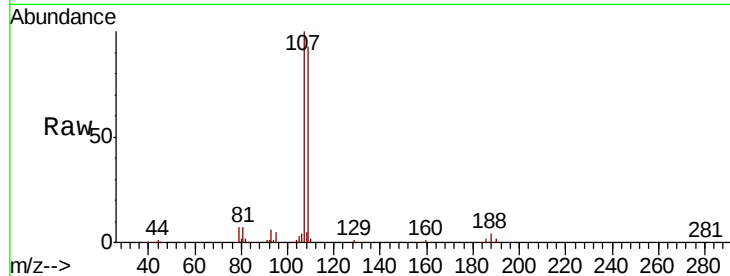




#50
1,2-Dibromoethane
Concen: 49.552 ug/L
RT: 8.96 min Scan# 2369
Delta R.T. -0.00 min
Lab File: VU035689.D
Acq: 12 Nov 2019 09:59

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.4	66.8	124.2
188	4.1	3.2	4.8

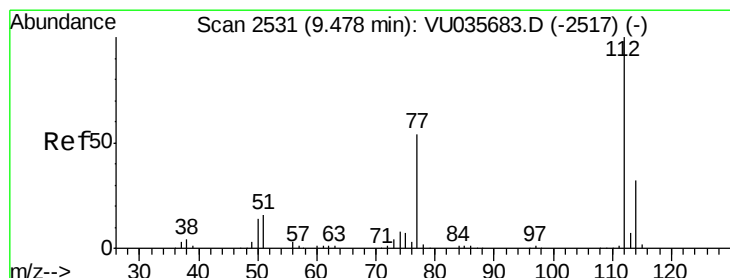
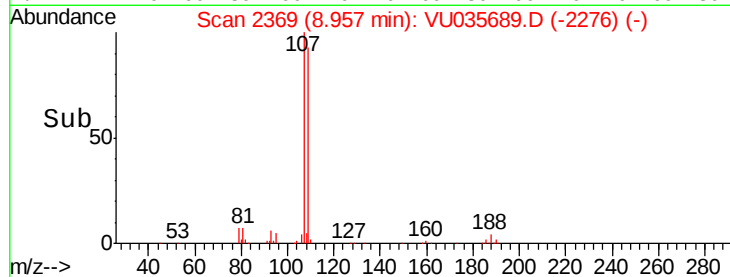
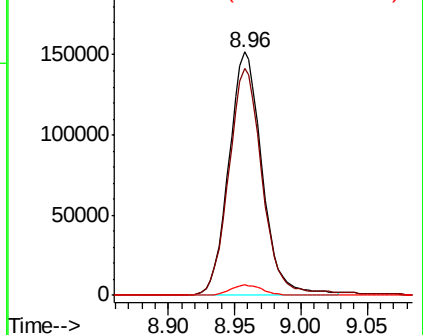


Abundance

Ion 107.00 (106.70 to 107.70): V

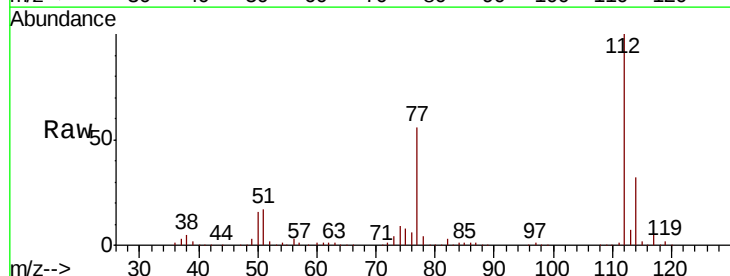
Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51
Chlorobenzene
Concen: 49.299 ug/L
RT: 9.48 min Scan# 2531
Delta R.T. -0.00 min
Lab File: VU035689.D
Acq: 12 Nov 2019 09:59

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.1	22.7	42.3
77	55.7	45.9	68.9

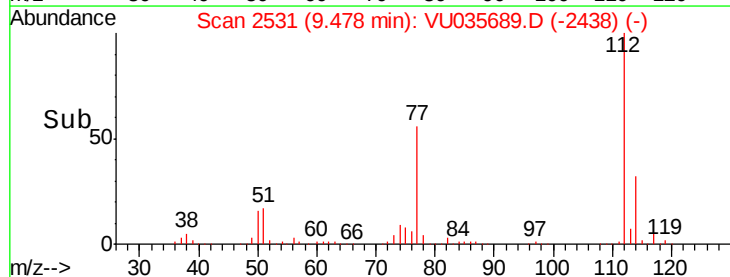
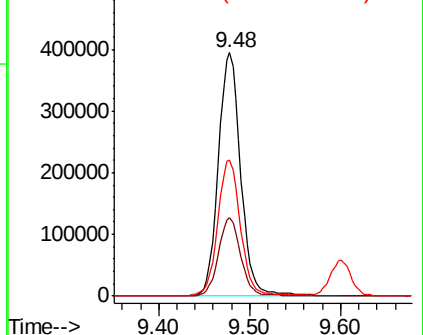


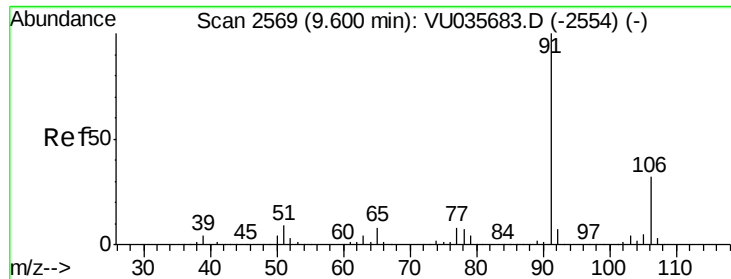
Abundance

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): VU





#52

Ethylbenzene

Concen: 50.864 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU035689.D

Acq: 12 Nov 2019 09:59

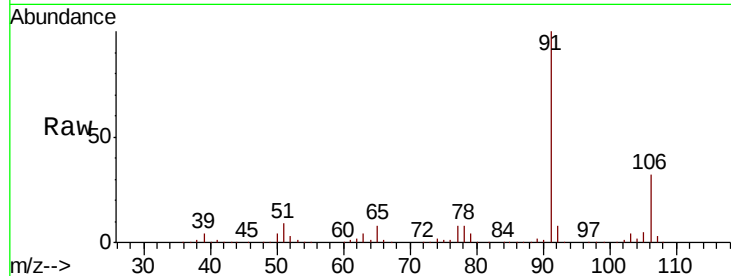
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 1113675

Ion Ratio Lower Upper

91 100

106 32.1 21.6 40.0



Abundance Ion 91.00 (90.70 to 91.70): VU035689.D (-2554) (-)

Ion 106.00 (105.70 to 106.70): VU035689.D (-2476) (-)

800000

600000

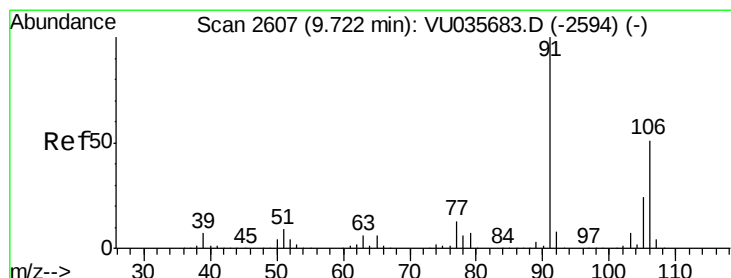
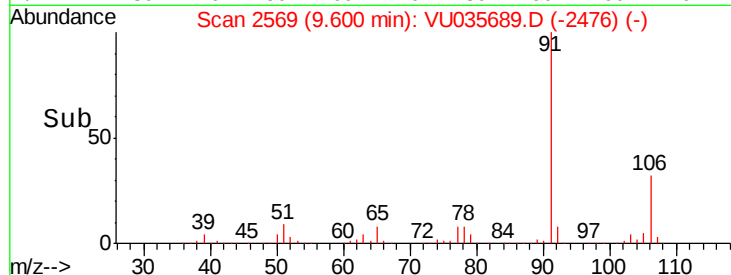
400000

200000

0

9.50 9.55 9.60 9.65 9.70

Time-->



#53

m,p-Xylene

Concen: 52.872 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VU035689.D

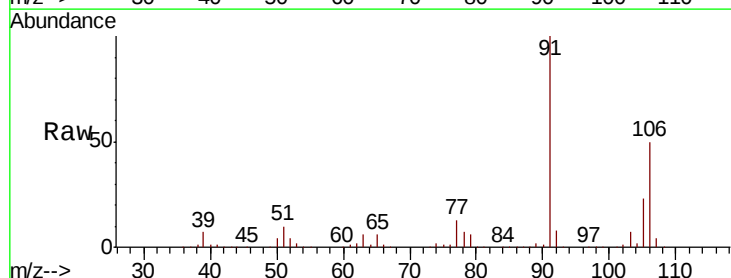
Acq: 12 Nov 2019 09:59

Tgt Ion: 106 Resp: 434393

Ion Ratio Lower Upper

106 100

91 198.5 142.7 264.9



Abundance Ion 106.00 (105.70 to 106.70): VU035689.D (-2514) (-)

Ion 91.00 (90.70 to 91.70): VU035689.D (-2594) (-)

500000

400000

300000

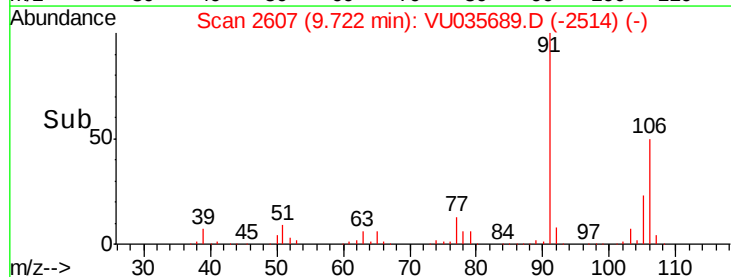
200000

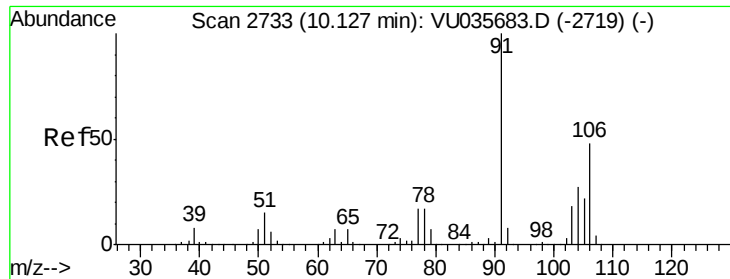
100000

0

9.70 9.72 9.74

Time-->





#54

o-xylene

Concen: 52.552 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. -0.00 min

Lab File: VU035689.D

Acq: 12 Nov 2019 09:59

Instrument :

MSVOA_U

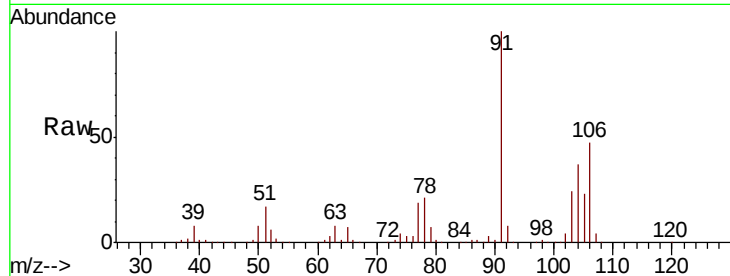
ClientSampled :

Tot Ion:106 Resp: 421995

Ion Ratio Lower Upper

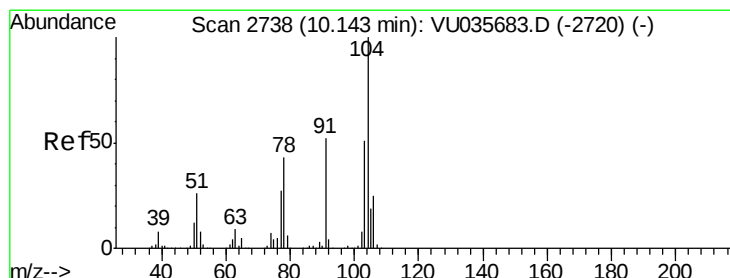
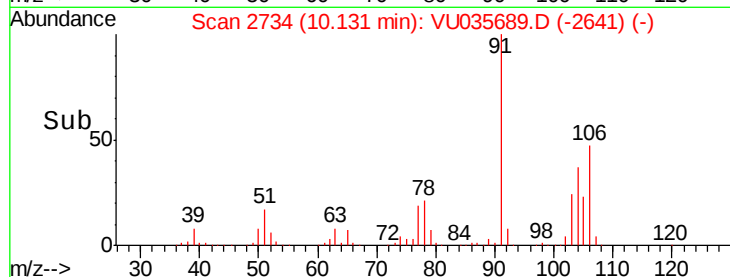
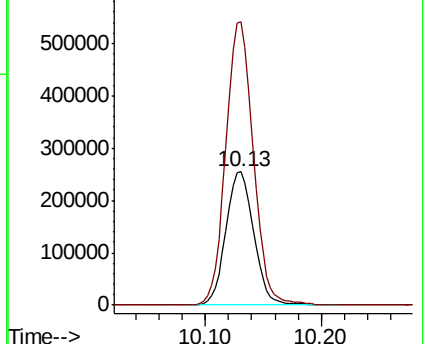
106 100

91 212.3 147.1 273.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 52.242 ug/L

RT: 10.14 min Scan# 2738

Delta R.T. -0.00 min

Lab File: VU035689.D

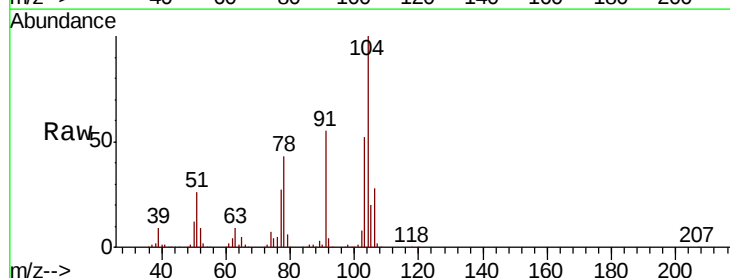
Acq: 12 Nov 2019 09:59

Tgt Ion:104 Resp: 696215

Ion Ratio Lower Upper

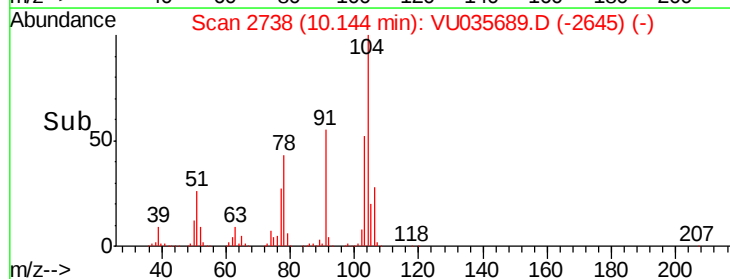
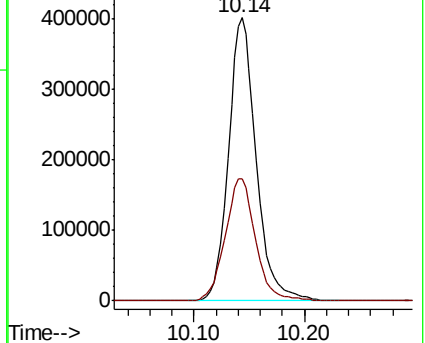
104 100

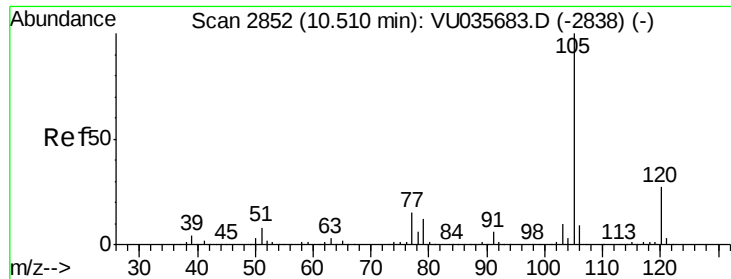
78 43.1 31.4 58.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 52.324 ug/L

RT: 10.51 min Scan# 2853

Delta R.T. -0.00 min

Lab File: VU035689.D

Acq: 12 Nov 2019 09:59

Instrument :

MSVOA_U

ClientSampled :

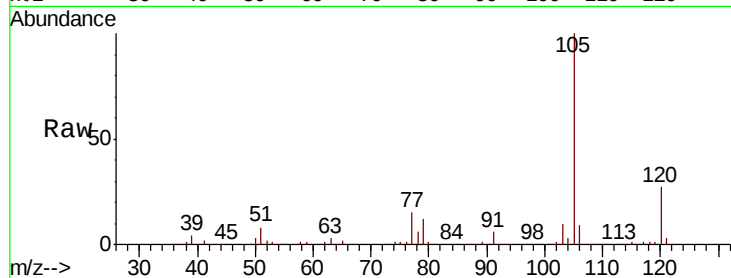
Tot Ion:105 Resp: 1055857

Ion Ratio Lower Upper

105 100

120 27.2 21.1 31.7

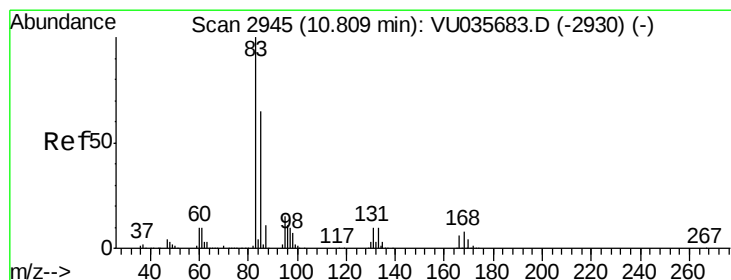
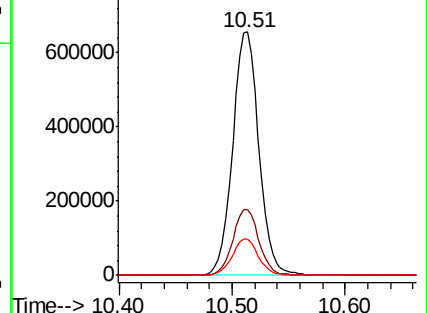
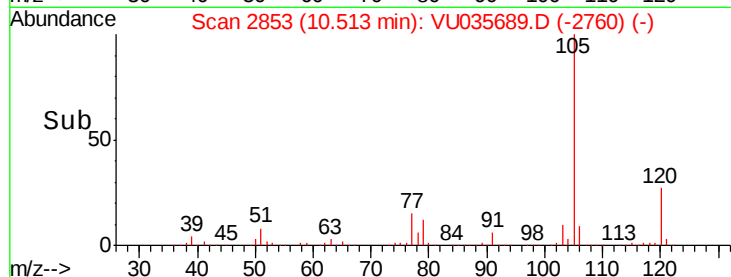
77 15.0 12.2 18.4



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): V



#58

1,1,2,2-Tetrachloroethane

Concen: 47.624 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. -0.00 min

Lab File: VU035689.D

Acq: 12 Nov 2019 09:59

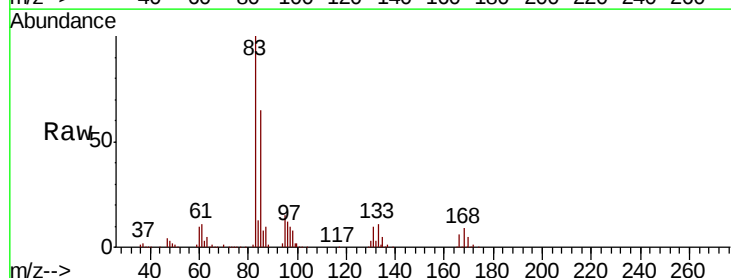
Tgt Ion: 83 Resp: 411456

Ion Ratio Lower Upper

83 100

85 64.5 44.6 82.8

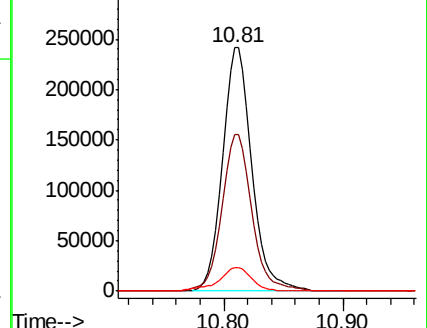
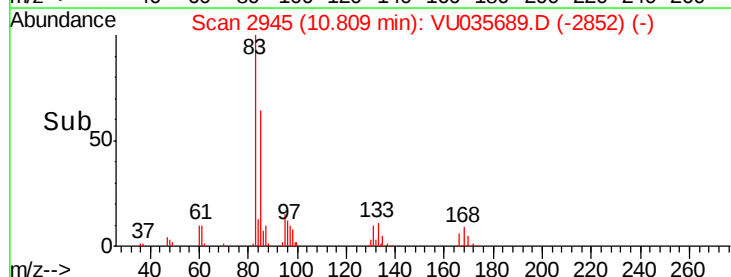
131 9.8 8.2 12.4

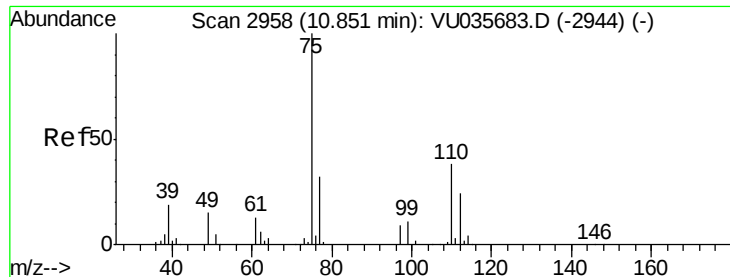


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 47.193 ug/L

RT: 10.85 min Scan# 2958

Delta R.T. -0.00 min

Lab File: VU035689.D

Acq: 12 Nov 2019 09:59

Instrument :

MSVOA_U

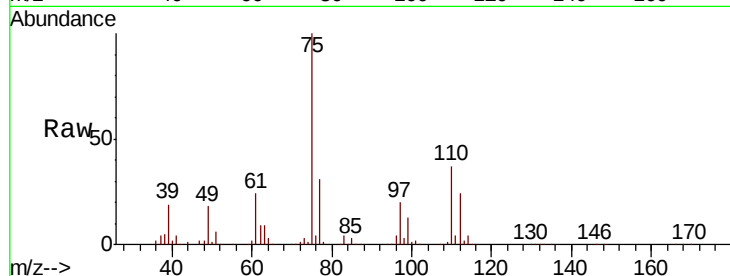
ClientSampleId :

Tot Ion: 75 Resp: 322014

Ion Ratio Lower Upper

75 100

77 32.2 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU035689.D (-2944) (-)

Ion 77.00 (76.70 to 77.70): VU035689.D (-2944) (-)

10.85

200000

150000

100000

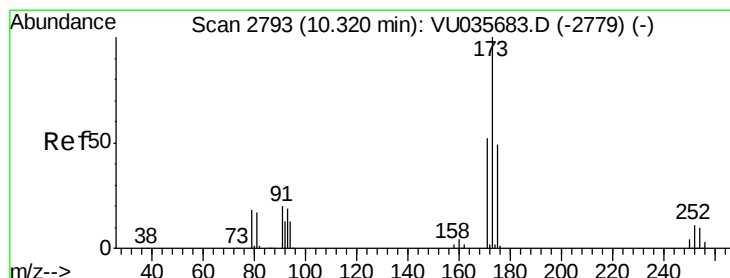
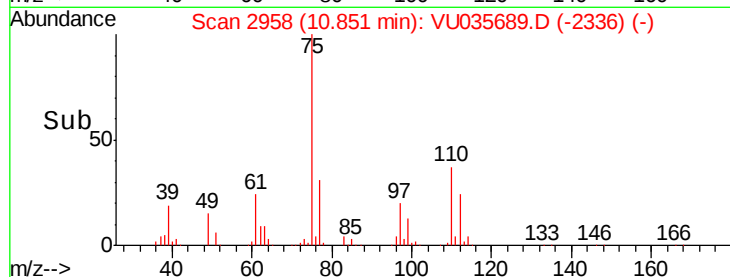
50000

0

10.80

10.90

Time-->



#61

Bromoform

Concen: 46.122 ug/L

RT: 10.32 min Scan# 2793

Delta R.T. -0.00 min

Lab File: VU035689.D

Acq: 12 Nov 2019 09:59

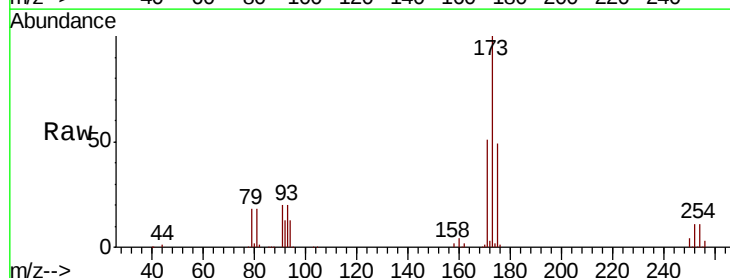
Tgt Ion: 173 Resp: 220849

Ion Ratio Lower Upper

173 100

175 48.5 39.4 59.0

254 10.2 8.1 12.1



Abundance Ion 173.00 (172.70 to 173.70): VU035689.D (-2779) (-)

Ion 175.00 (174.70 to 175.70): VU035689.D (-2779) (-)

Ion 254.00 (253.70 to 254.70): VU035689.D (-2779) (-)

10.32

150000

100000

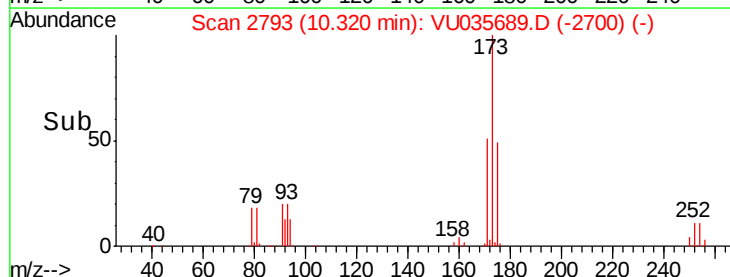
50000

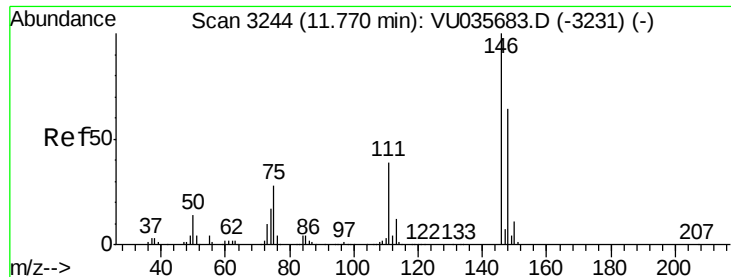
0

10.30

10.40

Time-->





#62

1,3-Dichlorobenzene

Concen: 48.556 ug/L

RT: 11.77 min Scan# 3244

Delta R.T. -0.00 min

Lab File: VU035689.D

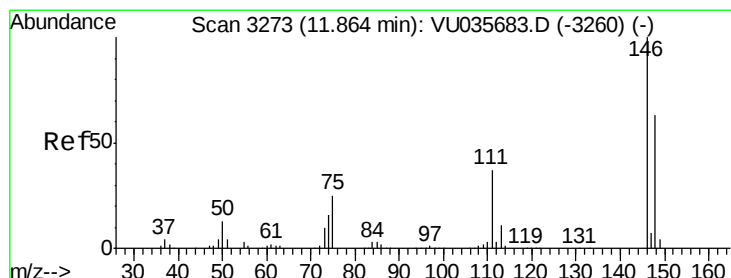
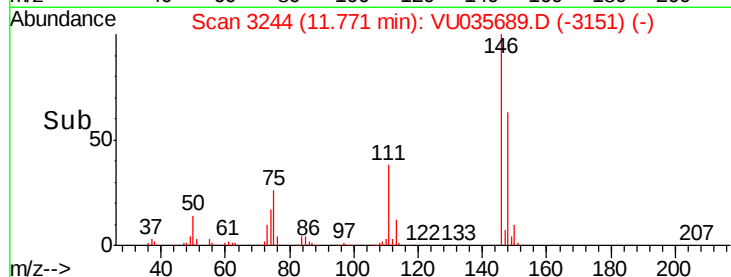
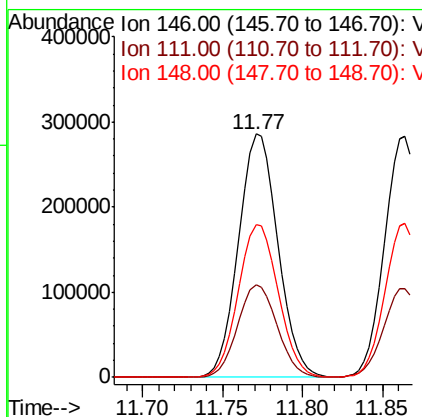
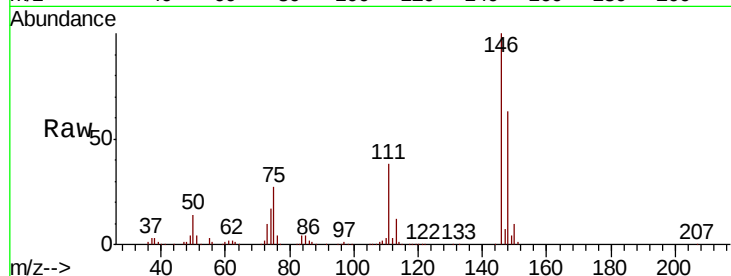
Acq: 12 Nov 2019 09:59

Instrument :

MSVOA_U

ClientSampled :

Tot Ion:146	Resp:	480773
Ion	Ratio	Lower Upper
146	100	
111	38.1	27.8 51.6
148	62.7	44.5 82.7



#63

1,4-Dichlorobenzene

Concen: 46.919 ug/L

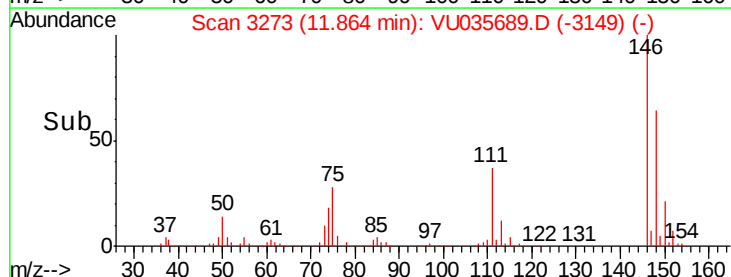
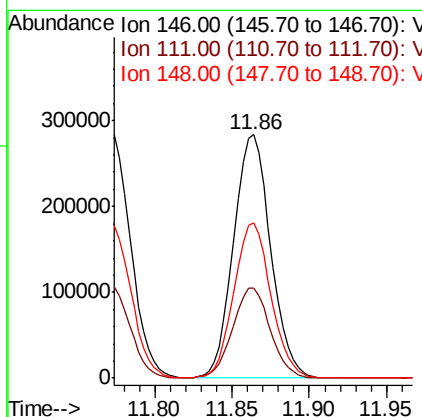
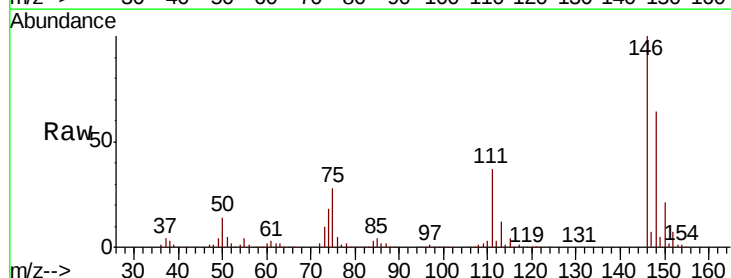
RT: 11.86 min Scan# 3273

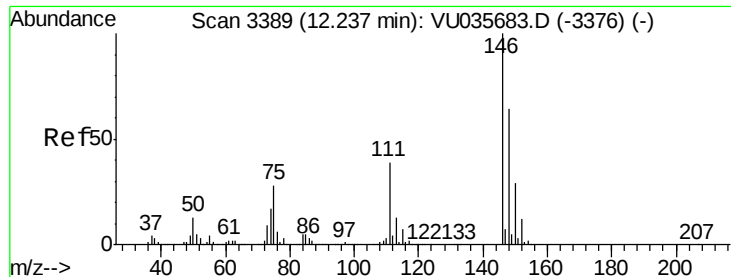
Delta R.T. -0.00 min

Lab File: VU035689.D

Acq: 12 Nov 2019 09:59

Tgt Ion:146	Resp:	471942
Ion	Ratio	Lower Upper
146	100	
111	36.9	26.5 49.1
148	63.6	44.4 82.5

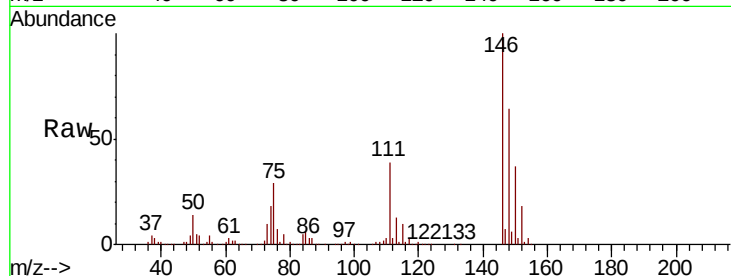




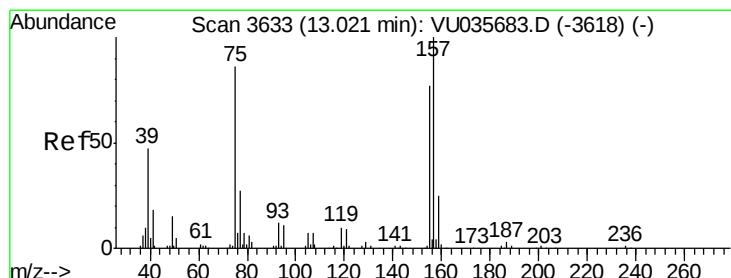
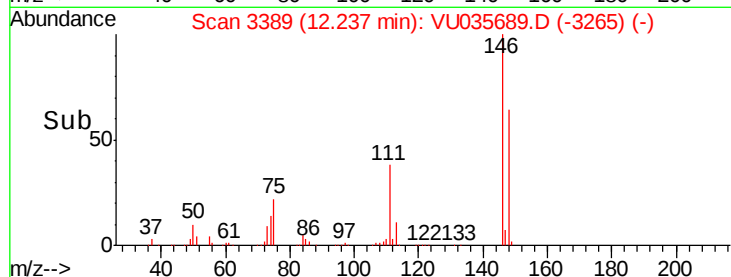
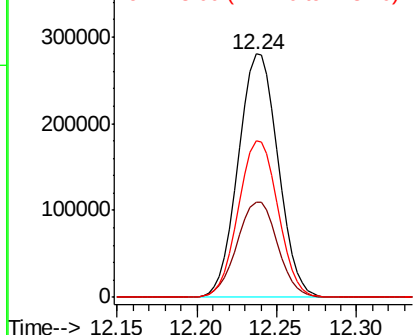
#65
 1,2-Dichlorobenzene
 Concen: 47.178 ug/L
 RT: 12.24 min Scan# 3389
 Delta R.T. -0.00 min
 Lab File: VU035689.D
 Acq: 12 Nov 2019 09:59

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:146 Resp: 475575
 Ion Ratio Lower Upper
 146 100
 111 39.2 32.4 48.6
 148 64.4 51.8 77.6

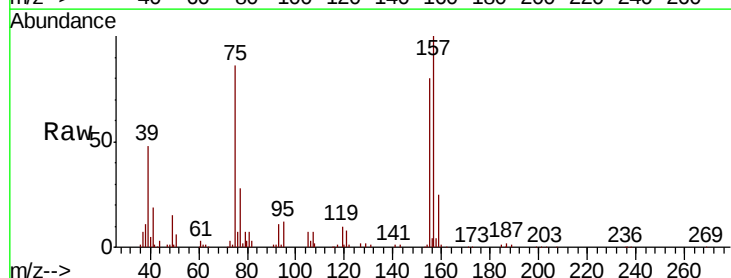


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

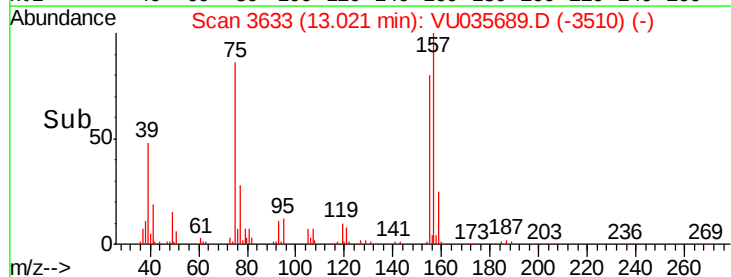
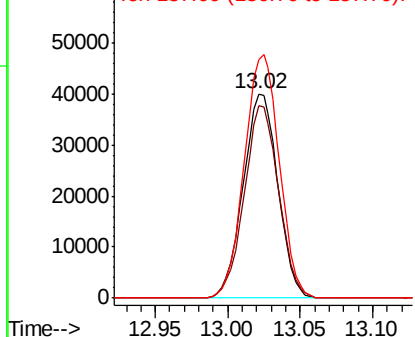


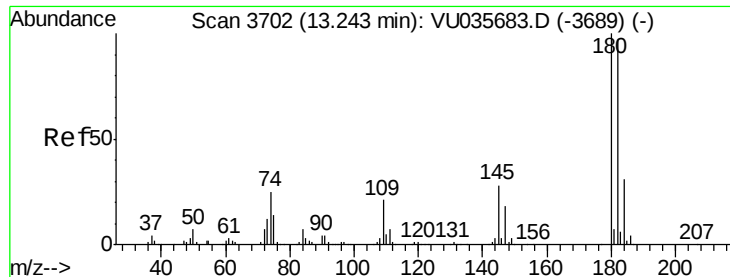
#66
 1,2-Dibromo-3-chloropropane
 Concen: 42.648 ug/L
 RT: 13.02 min Scan# 3633
 Delta R.T. -0.00 min
 Lab File: VU035689.D
 Acq: 12 Nov 2019 09:59

Tgt Ion: 75 Resp: 66656
 Ion Ratio Lower Upper
 75 100
 155 93.9 72.2 108.4
 157 116.9 92.1 138.1



Abundance Ion 75.00 (74.70 to 75.70): VU0
 Ion 155.00 (154.70 to 155.70): V
 Ion 157.00 (156.70 to 157.70): V

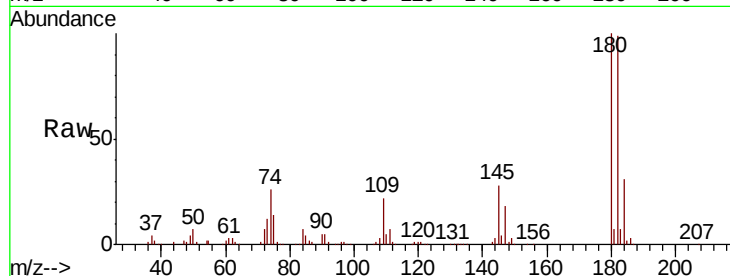




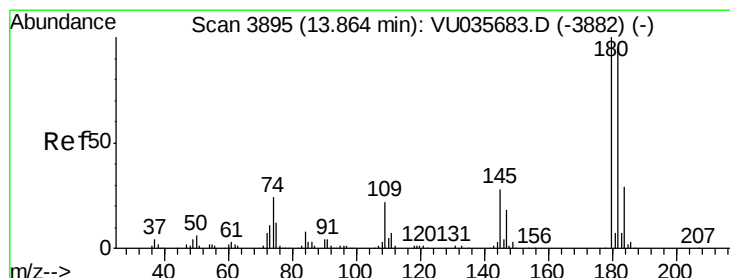
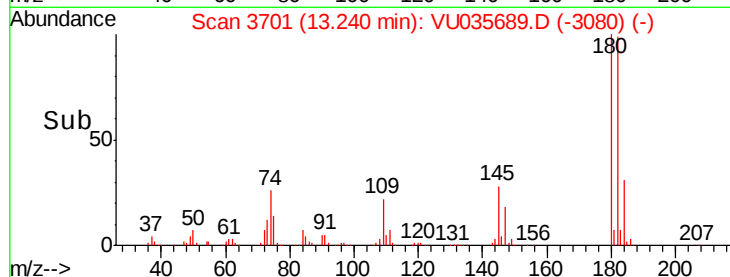
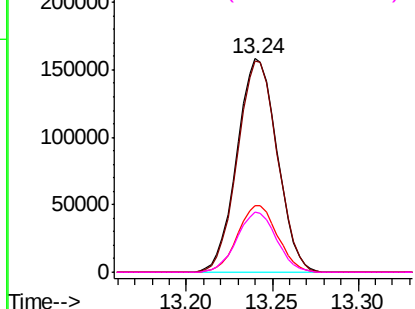
#67
 1,3,5-Trichlorobenzene
 Concen: 45.024 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. -0.00 min
 Lab File: VU035689.D
 Acq: 12 Nov 2019 09:59

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180 Resp: 257556
 Ion Ratio Lower Upper
 180 100
 182 97.9 77.0 115.4
 184 31.0 24.6 36.8
 145 27.6 21.7 32.5

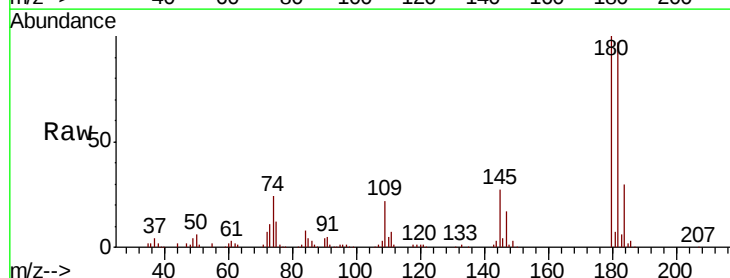


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

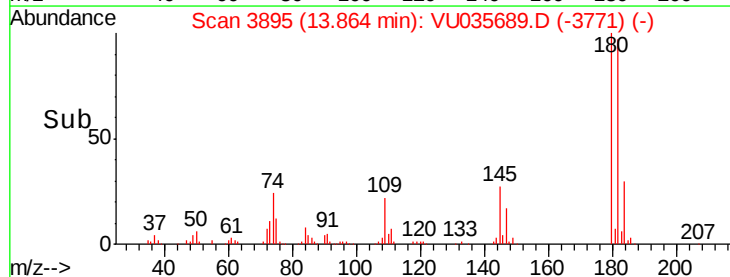
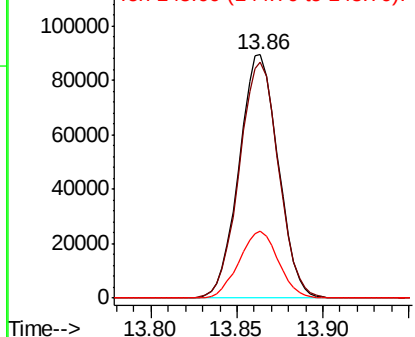


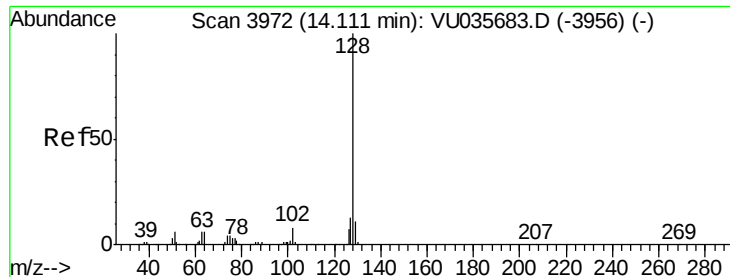
#68
 1,2,4-trichlorobenzene
 Concen: 36.843 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. -0.00 min
 Lab File: VU035689.D
 Acq: 12 Nov 2019 09:59

Tgt Ion:180 Resp: 141178
 Ion Ratio Lower Upper
 180 100
 182 97.4 76.6 115.0
 145 27.7 21.9 32.9



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: 31.500 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. -0.00 min

Lab File: VU035689.D

Acq: 12 Nov 2019 09:59

Instrument :

MSVOA_U

ClientSampleId :

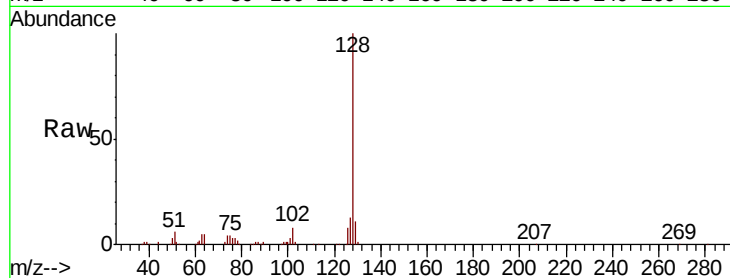
Tot Ion:128 Resp: 309606

Ion Ratio Lower Upper

128 100

127 13.1 10.7 16.1

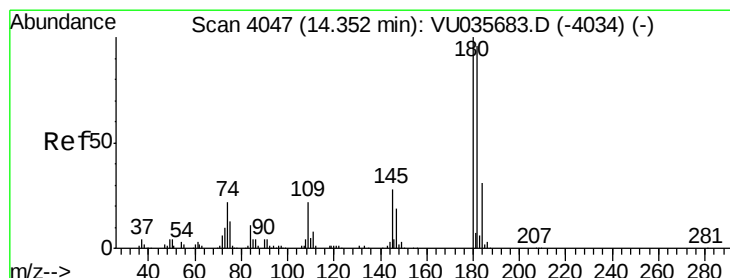
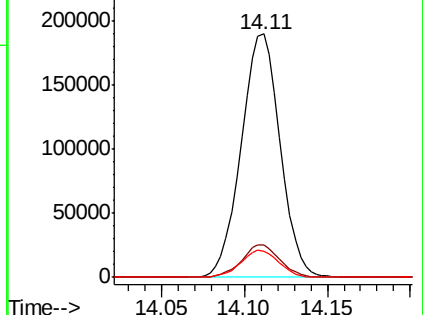
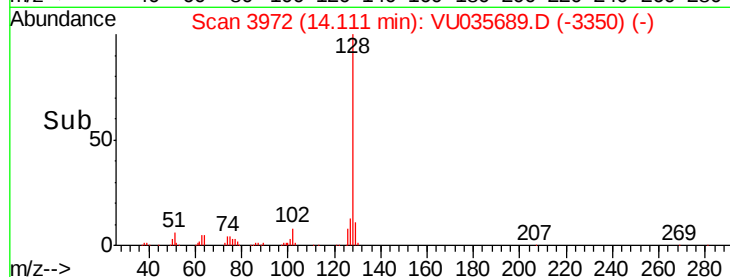
129 11.0 8.5 12.7



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: 36.634 ug/L

RT: 14.35 min Scan# 4047

Delta R.T. -0.00 min

Lab File: VU035689.D

Acq: 12 Nov 2019 09:59

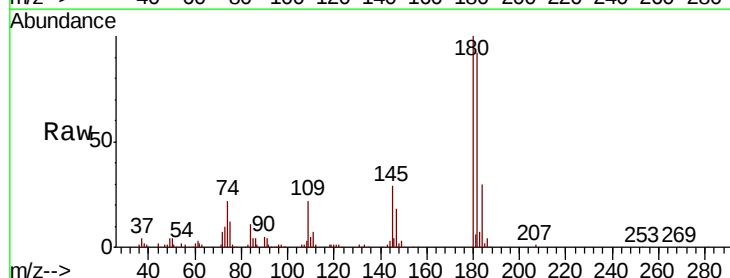
Tgt Ion:180 Resp: 151251

Ion Ratio Lower Upper

180 100

182 93.7 77.6 116.4

145 28.8 23.4 35.0



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

