

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110719\
 Data File : VU035681.D
 Acq On : 07 Nov 2019 23:36
 Operator : JC/SP
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05040

Quant Time: Nov 08 06:17:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM103119WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Nov 08 06:13:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	696868	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	684894	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	314634	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	253084	44.97	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	89.94%
7) Chloroethane-d5	1.93	69	209745	46.66	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.32%
11) 1,1-Dichloroethene-d2	2.60	63	408146	46.63	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.26%
21) 2-Butanone-d5	4.69	46	329478	100.22	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	100.22%
24) Chloroform-d	5.11	84	423931	48.77	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.54%
26) 1,2-Dichloroethane-d4	5.75	65	255046	47.90	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.80%
32) Benzene-d6	5.77	84	874428	48.98	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.96%
36) 1,2-Dichloropropane-d6	6.73	67	281849	48.68	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.36%
41) Toluene-d8	7.93	98	824479	48.96	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.92%
43) trans-1,3-Dichloropropene-	8.21	79	126366	47.38	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.76%
47) 2-Hexanone-d5	8.68	63	236480	106.57	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	106.57%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	411403	49.97	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.94%
64) 1,2-Dichlorobenzene-d4	12.22	152	300758	47.39	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.78%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.40	85	263219	48.433	ug/L 100
3) Chloromethane	1.54	50	298842	50.455	ug/L 100
5) Vinyl chloride	1.62	62	316481	49.660	ug/L 98
6) Bromomethane	1.87	94	176793	54.769	ug/L 97
8) Chloroethane	1.95	64	184058	49.657	ug/L 100
9) Trichlorofluoromethane	2.16	101	383623	50.817	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	220359	50.845	ug/L 99
12) 1,1-Dichloroethene	2.61	96	213100	50.060	ug/L 98
13) Acetone	2.67	43	233645	80.774	ug/L 99
14) Carbon disulfide	2.83	76	650155	49.573	ug/L 99
15) Methyl Acetate	2.99	43	261142	49.844	ug/L 99
16) Methylene chloride	3.09	84	256820	49.445	ug/L 98
17) trans-1,2-Dichloroethene	3.39	96	225718	50.351	ug/L 99
18) Methyl tert-butyl Ether	3.42	73	692587	51.101	ug/L 99
19) 1,1-Dichloroethane	3.92	63	433617	50.144	ug/L 99
20) cis-1,2-Dichloroethene	4.72	96	261277	51.674	ug/L 96
22) 2-Butanone	4.77	43	369436	96.751	ug/L 97

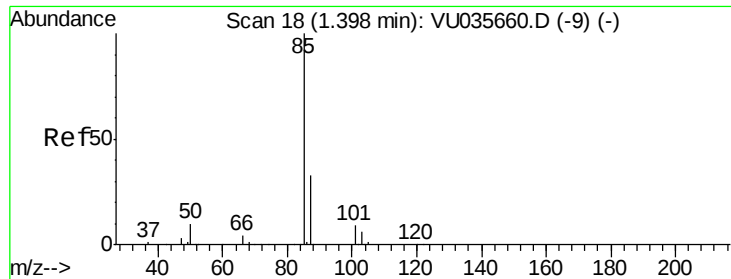
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110719\
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 Quant Title : VOC Analysis
 QLast Update : Fri Nov 08 06:13:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	140715	52.665	ug/L	95
25) Chloroform	5.14	83	441502	50.271	ug/L	100
27) 1,2-Dichloroethane	5.84	62	320702	49.982	ug/L	100
29) Cyclohexane	5.43	56	359600	51.476	ug/L	98
30) 1,1,1-Trichloroethane	5.37	97	368166	51.144	ug/L	99
31) Carbon tetrachloride	5.57	117	323984	50.616	ug/L	100
33) Benzene	5.82	78	989645	51.414	ug/L	100
34) Trichloroethene	6.58	95	244528	49.970	ug/L	98
35) Methylcyclohexane	6.80	83	359073	50.524	ug/L	99
37) 1,2-Dichloropropane	6.83	63	262805	50.985	ug/L	100
38) Bromodichloromethane	7.15	83	323695	49.405	ug/L	98
39) cis-1,3-Dichloropropene	7.65	75	391386	51.083	ug/L	99
40) 4-Methyl-2-pentanone	7.84	43	670564	97.240	ug/L	97
42) Toluene	8.01	91	1072273	53.151	ug/L	100
44) trans-1,3-Dichloropropene	8.25	75	346864	49.389	ug/L	98
45) 1,1,2-Trichloroethane	8.44	97	250545	50.711	ug/L	100
46) Tetrachloroethene	8.58	164	209451	51.189	ug/L	98
48) 2-Hexanone	8.73	43	547226	97.583	ug/L	95
49) Dibromochloromethane	8.84	129	282940	50.782	ug/L	96
50) 1,2-Dibromoethane	8.96	107	269316	51.091	ug/L	99
51) Chlorobenzene	9.48	112	686489	50.972	ug/L	98
52) Ethylbenzene	9.60	91	1115970	51.744	ug/L	98
53) m,p-Xylene	9.72	106	438049	54.128	ug/L	94
54) o-xylene	10.13	106	422498	53.414	ug/L	97
55) Styrene	10.14	104	699756	53.307	ug/L	98
56) Isopropylbenzene	10.51	105	1060905	53.374	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.81	83	427013	50.177	ug/L	98
59) 1,2,3-Trichloropropane	10.85	75	337042	50.147	ug/L	100
61) Bromoform	10.32	173	223106	46.480	ug/L	99
62) 1,3-Dichlorobenzene	11.77	146	478444	48.203	ug/L	99
63) 1,4-Dichlorobenzene	11.86	146	469689	46.581	ug/L	98
65) 1,2-Dichlorobenzene	12.24	146	480064	47.508	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	71258	45.482	ug/L	100
67) 1,3,5-Trichlorobenzene	13.24	180	255740	44.598	ug/L	100
68) 1,2,4-trichlorobenzene	13.86	180	140768	36.647	ug/L	99
69) Naphthalene	14.11	128	317899	32.266	ug/L	99
70) 1,2,3-Trichlorobenzene	14.35	180	154390	37.303	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 48.433 ug/L

RT: 1.40 min Scan# 18

Delta R.T. -0.00 min

Lab File: VU035681.D

Acq: 07 Nov 2019 23:36

Instrument :

MSVOA_U

ClientSampleId :

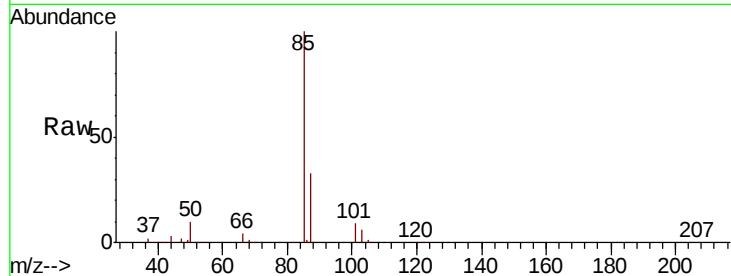
VSTD05040

Tot Ion: 85 Resp: 263219

Ion Ratio Lower Upper

85 100

87 32.1 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VU035660.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU035660.D (-9) (-)

1.40

250000

200000

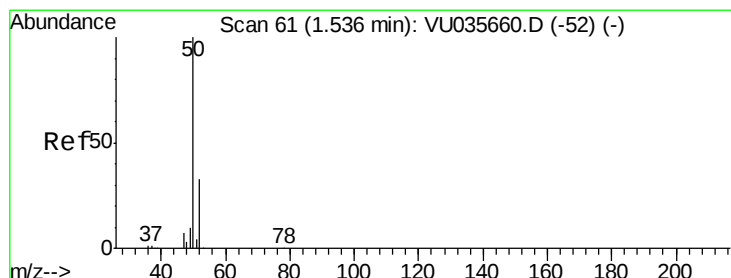
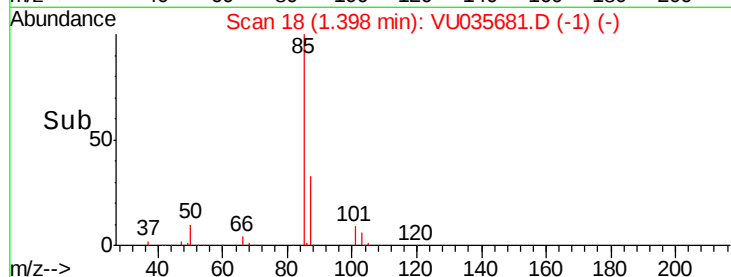
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 50.455 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU035681.D

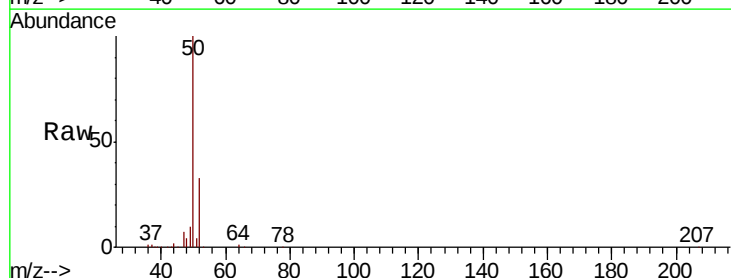
Acq: 07 Nov 2019 23:36

Tgt Ion: 50 Resp: 298842

Ion Ratio Lower Upper

50 100

52 33.0 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU035660.D (-52) (-)

Ion 52.00 (51.70 to 52.70): VU035660.D (-52) (-)

1.54

300000

250000

200000

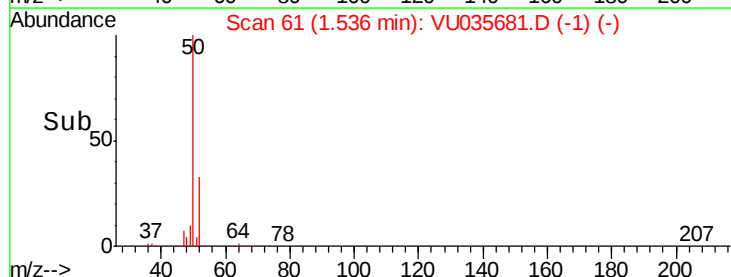
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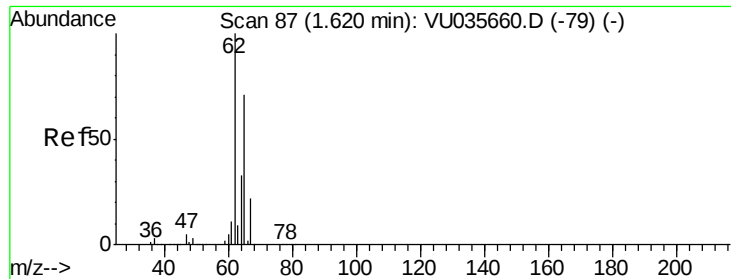
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 49.660 ug/L

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VU035681.D

Acq: 07 Nov 2019 23:36

Instrument :

MSVOA_U

ClientSampleId :

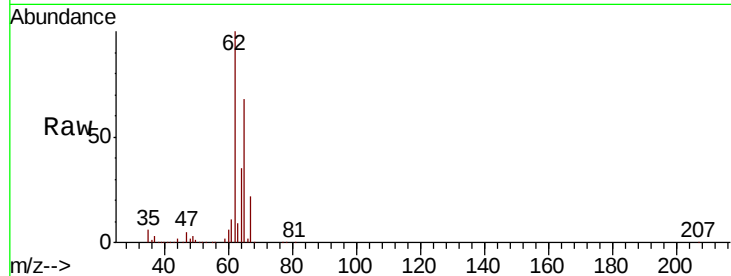
VSTD05040

Tot Ion: 62 Resp: 316481

Ion Ratio Lower Upper

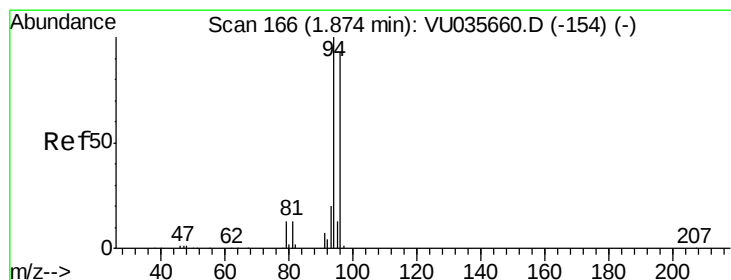
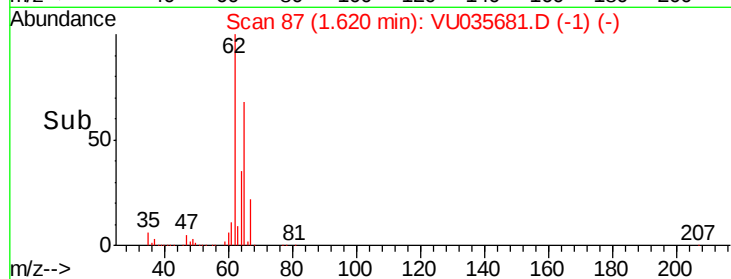
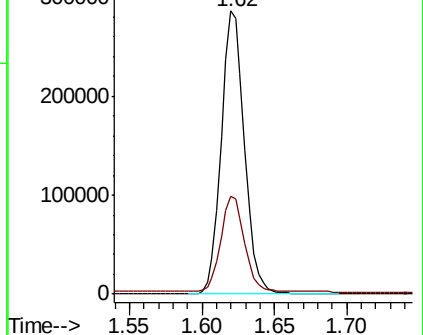
62 100

64 34.7 23.7 43.9



Abundance Ion 62.00 (61.70 to 62.70): VU035681.D (-1) (-)

Ion 64.00 (63.70 to 64.70): VU035681.D (-1) (-)



#6

Bromomethane

Concen: 54.769 ug/L

RT: 1.87 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU035681.D

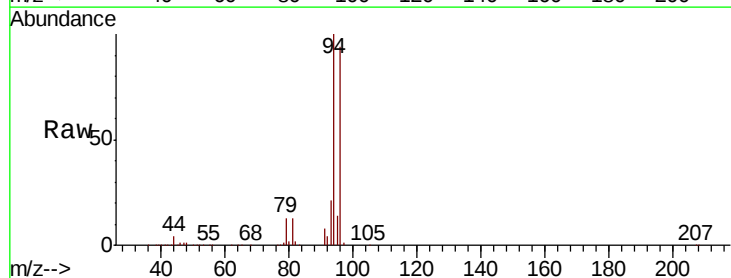
Acq: 07 Nov 2019 23:36

Tgt Ion: 94 Resp: 176793

Ion Ratio Lower Upper

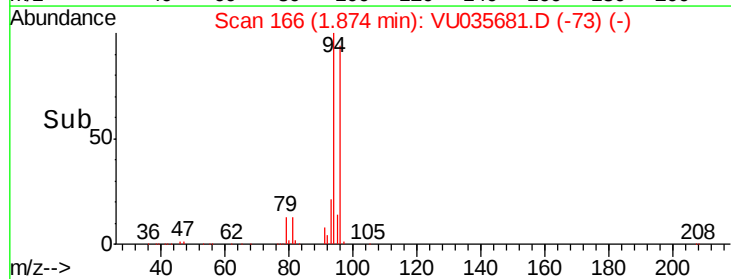
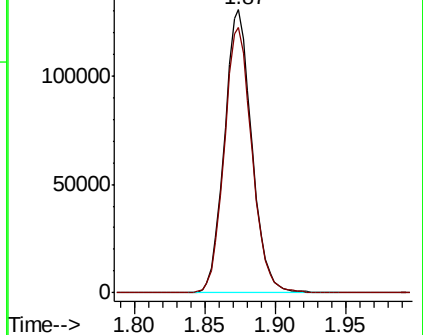
94 100

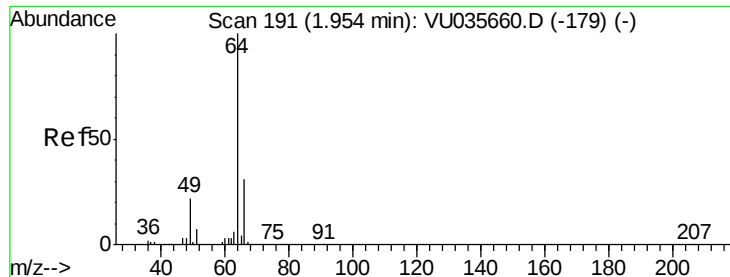
96 93.9 67.5 125.4



Abundance Ion 94.00 (93.70 to 94.70): VU035681.D (-73) (-)

Ion 96.00 (95.70 to 96.70): VU035681.D (-73) (-)





#8

Chloroethane

Concen: 49.657 ug/L

RT: 1.95 min Scan# 191

Delta R.T. -0.00 min

Lab File: VU035681.D

Acq: 07 Nov 2019 23:36

Instrument :

MSVOA_U

ClientSampleId :

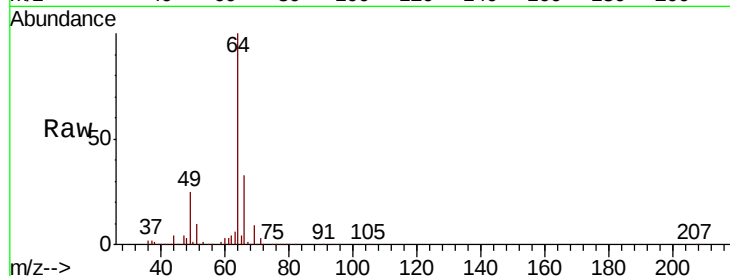
VSTD05040

Tot Ion: 64 Resp: 184058

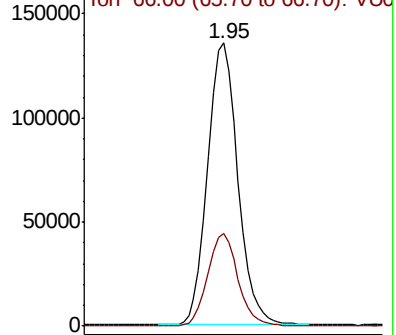
Ion Ratio Lower Upper

64 100

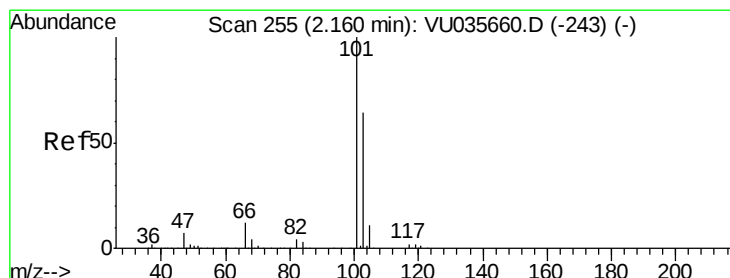
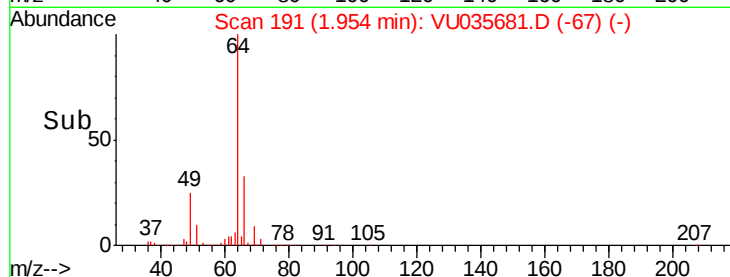
66 32.7 22.8 42.4



Abundance Ion 64.00 (63.70 to 64.70): VU035681.D (-131) (-)



Time-->



#9

Trichlorofluoromethane

Concen: 50.817 ug/L

RT: 2.16 min Scan# 255

Delta R.T. -0.00 min

Lab File: VU035681.D

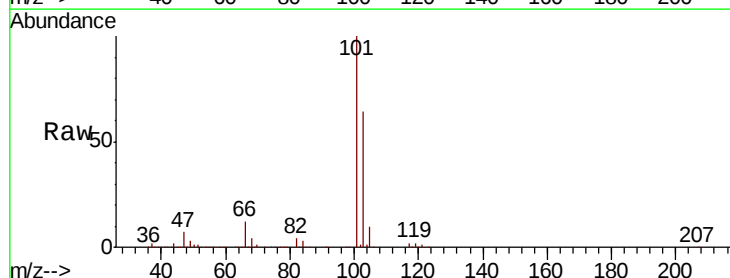
Acq: 07 Nov 2019 23:36

Tgt Ion:101 Resp: 383623

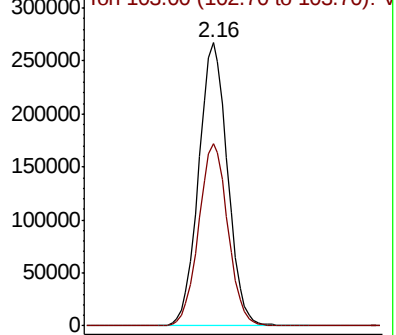
Ion Ratio Lower Upper

101 100

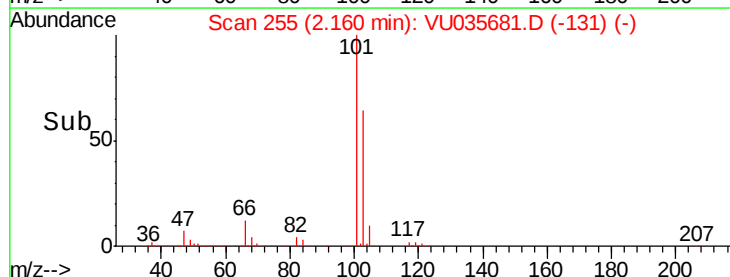
103 64.9 51.8 77.6

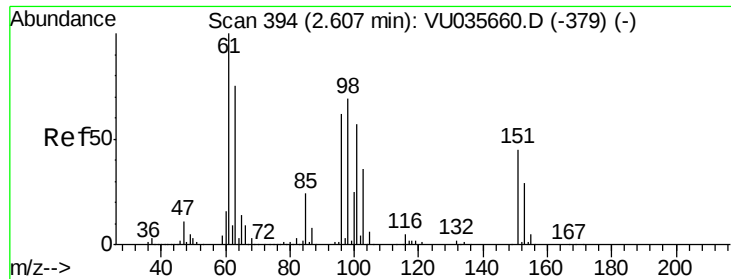


Abundance Ion 101.00 (100.70 to 101.70): VU035681.D (-131) (-)



Time-->





#10

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

Concen: 50.845 ug/L

RT: 2.61 min Scan# 395

Delta R.T. 0.00 min

Lab File: VU035681.D

Acq: 07 Nov 2019 23:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05040

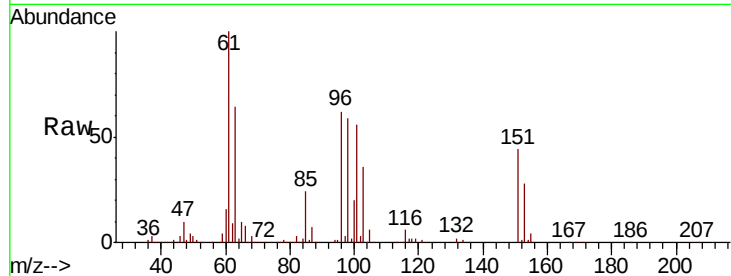
Tot Ion:101 Resp: 220359

Ion Ratio Lower Upper

101 100

85 43.0 34.0 51.0

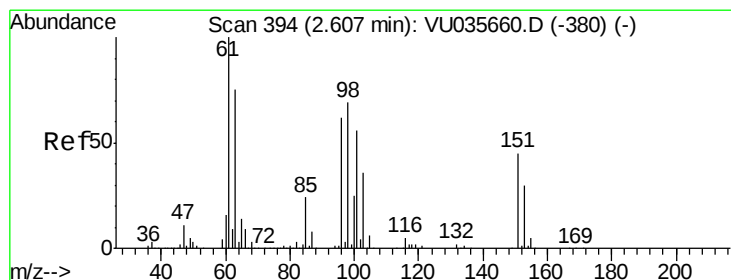
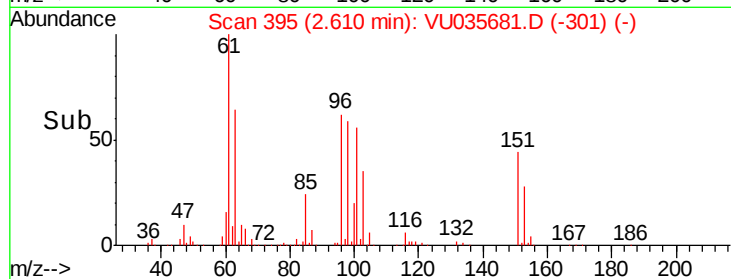
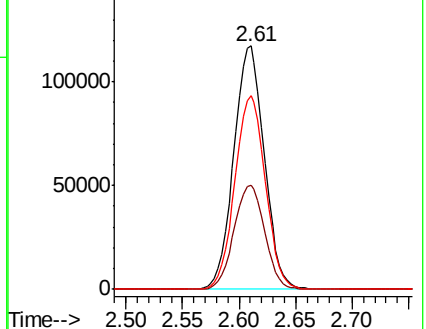
151 79.6 64.2 96.4



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: 50.060 ug/L

RT: 2.61 min Scan# 395

Delta R.T. 0.00 min

Lab File: VU035681.D

Acq: 07 Nov 2019 23:36

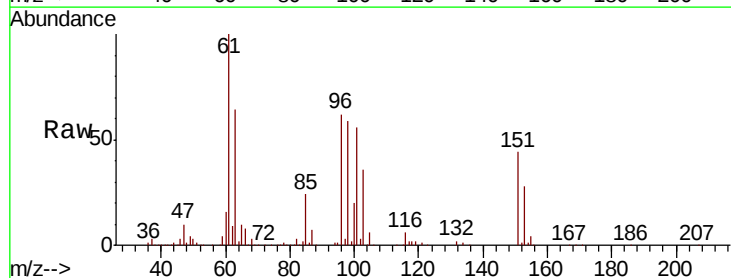
Tgt Ion: 96 Resp: 213100

Ion Ratio Lower Upper

96 100

61 162.6 113.1 210.1

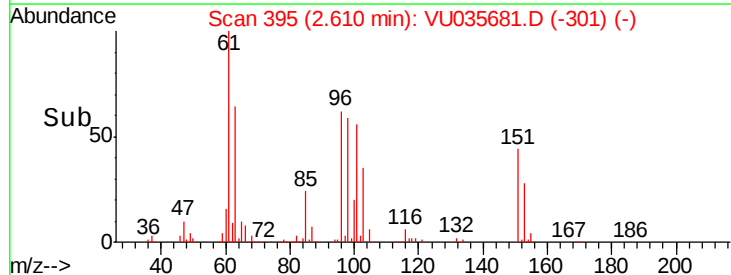
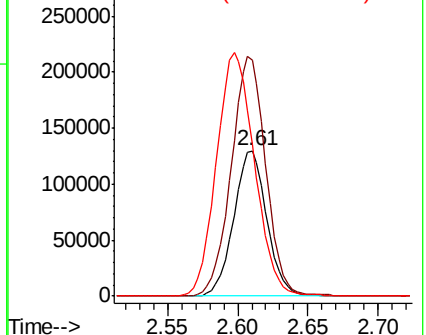
63 104.2 76.2 141.4

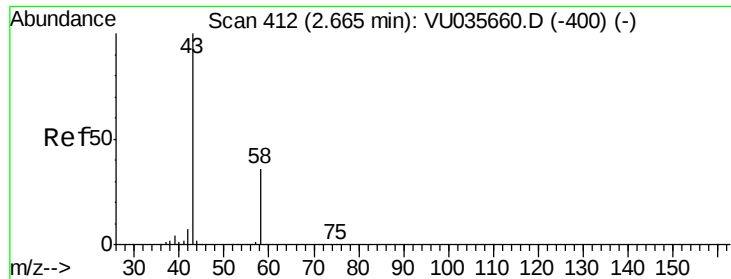


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 80.774 ug/L

RT: 2.67 min Scan# 413

Delta R.T. 0.00 min

Lab File: VU035681.D

Acq: 07 Nov 2019 23:36

Instrument :

MSVOA_U

ClientSampleId :

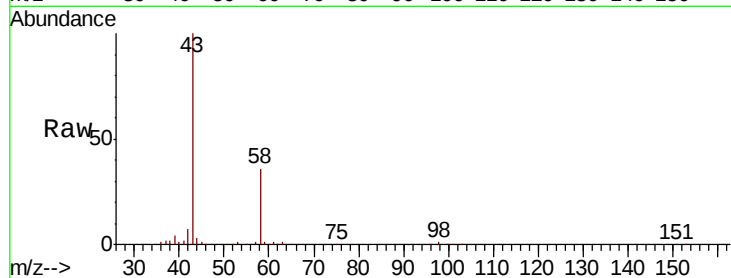
VSTD05040

Tot Ion: 43 Resp: 233645

Ion Ratio Lower Upper

43 100

58 35.8 0.0 70.0



Abundance Ion 43.00 (42.70 to 43.70): VU035660.D (-400) (-)

Ion 58.00 (57.70 to 58.70): VU035660.D (-400) (-)

2.67

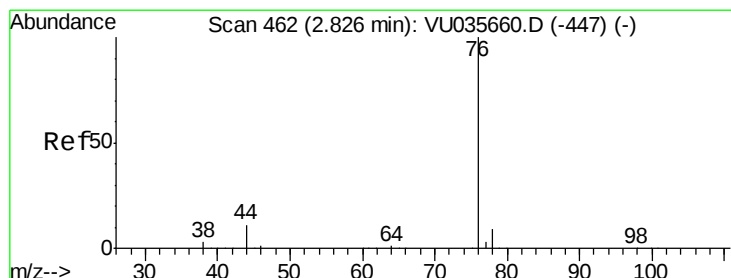
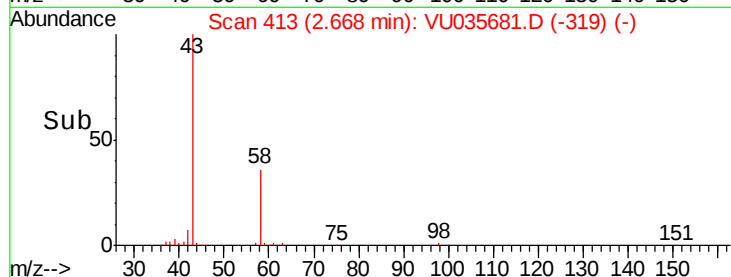
150000

100000

50000

0

Time-->



#14

Carbon disulfide

Concen: 49.573 ug/L

RT: 2.83 min Scan# 462

Delta R.T. -0.00 min

Lab File: VU035681.D

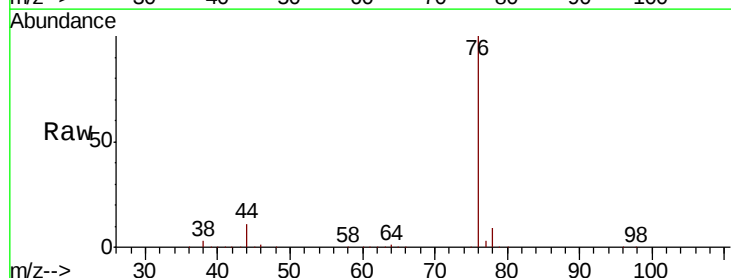
Acq: 07 Nov 2019 23:36

Tgt Ion: 76 Resp: 650155

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU035660.D (-447) (-)

Ion 78.00 (77.70 to 78.70): VU035660.D (-447) (-)

2.83

400000

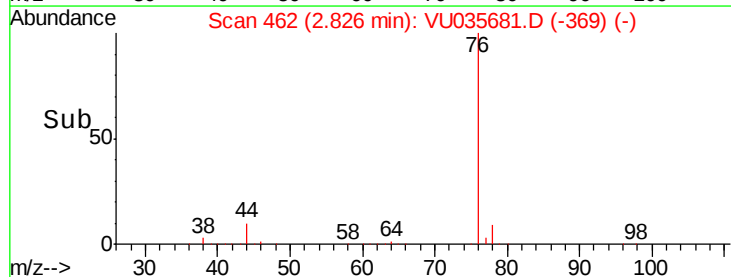
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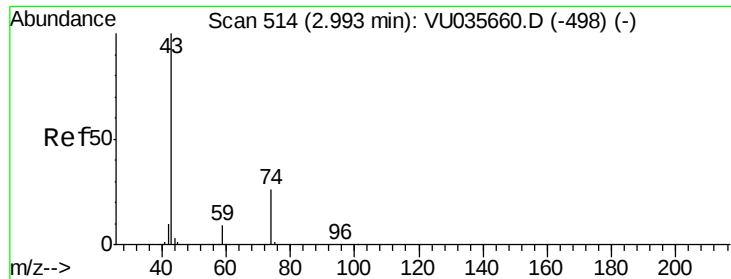
200000

100000

0

Time-->

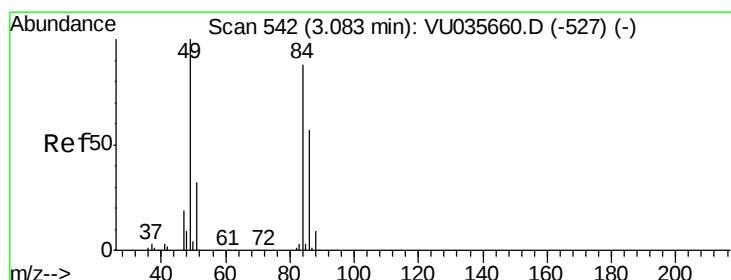
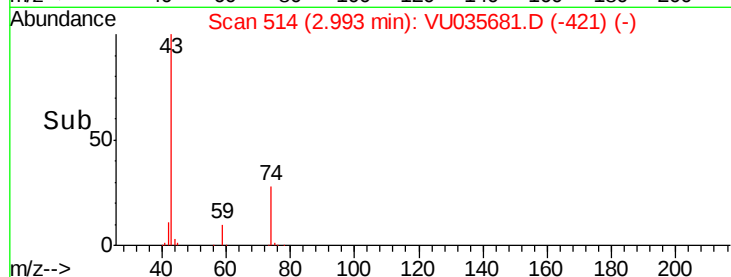
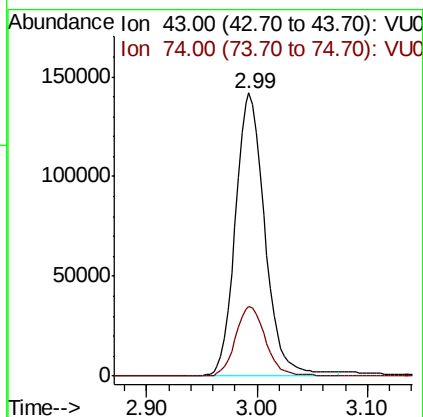
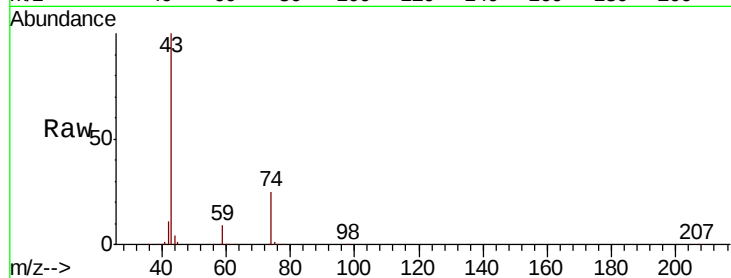




#15
Methvl Acetate
Concen: 49.844 ug/L
RT: 2.99 min Scan# 514
Delta R.T. -0.00 min
Lab File: VU035681.D
Acq: 07 Nov 2019 23:36

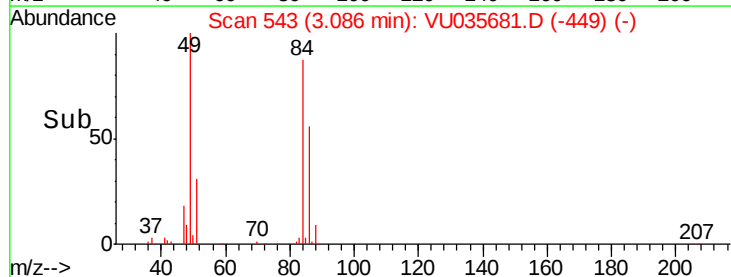
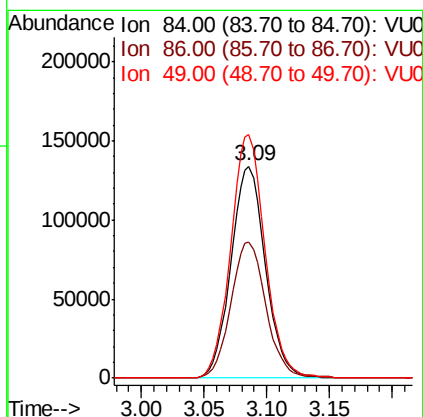
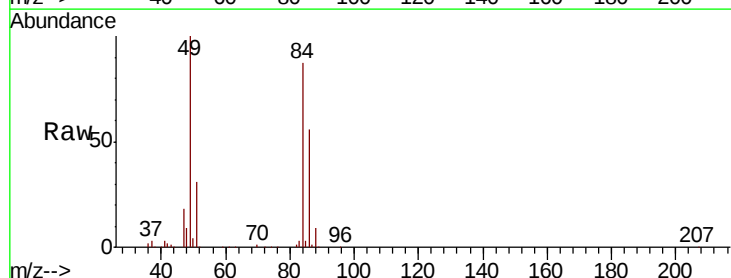
Instrument :
MSVOA_U
ClientSampleId :
VSTD05040

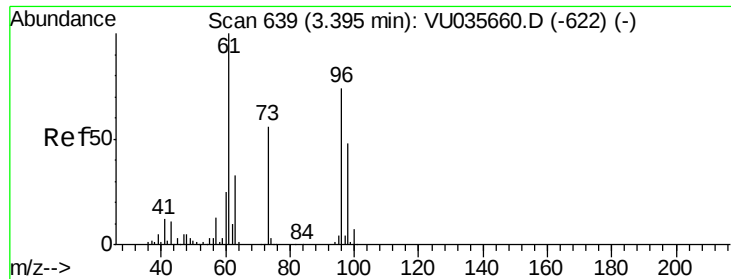
Tot Ion: 43 Resp: 261142
Ion Ratio Lower Upper
43 100
74 25.3 19.8 29.6



#16
Methylene chloride
Concen: 49.445 ug/L
RT: 3.09 min Scan# 543
Delta R.T. 0.00 min
Lab File: VU035681.D
Acq: 07 Nov 2019 23:36

Tgt Ion: 84 Resp: 256820
Ion Ratio Lower Upper
84 100
86 64.0 45.1 83.7
49 115.0 82.7 153.5





#17

trans-1,2-Dichloroethene

Concen: 50.351 ug/L

RT: 3.39 min Scan# 639

Delta R.T. -0.00 min

Lab File: VU035681.D

Acq: 07 Nov 2019 23:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05040

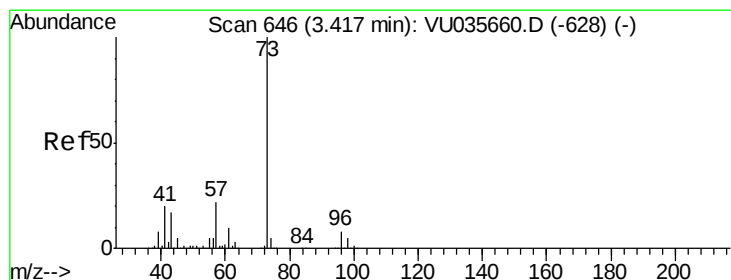
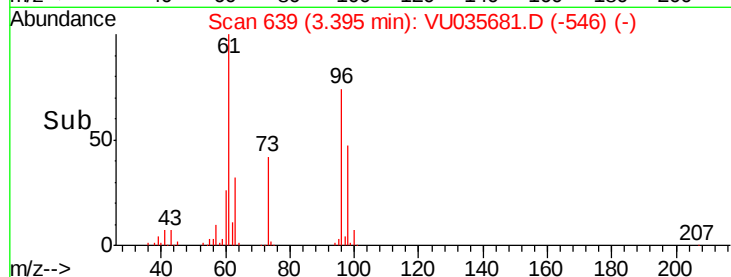
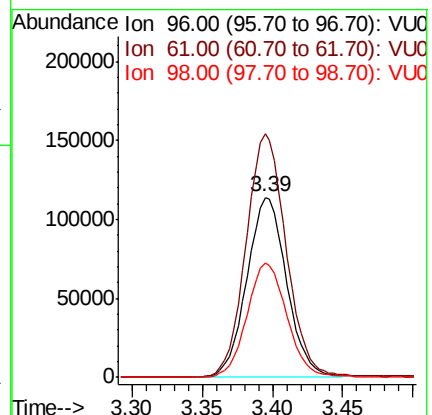
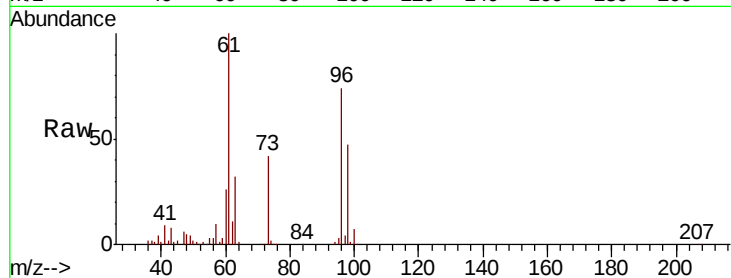
Tot Ion: 96 Resp: 225718

Ion Ratio Lower Upper

96 100

61 135.5 95.3 176.9

98 63.5 44.0 81.8



#18

Methyl tert-butyl Ether

Concen: 51.101 ug/L

RT: 3.42 min Scan# 647

Delta R.T. 0.00 min

Lab File: VU035681.D

Acq: 07 Nov 2019 23:36

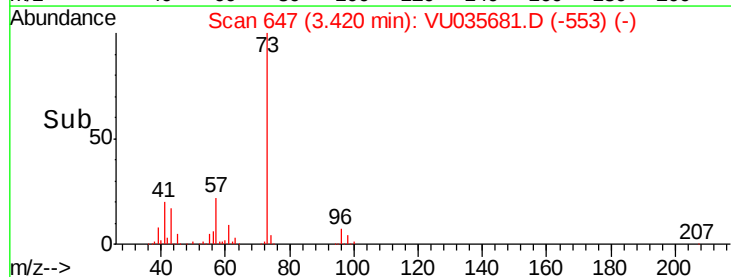
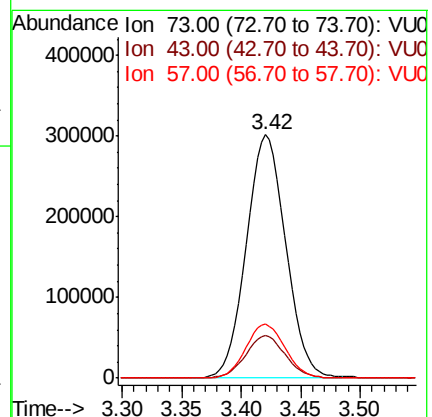
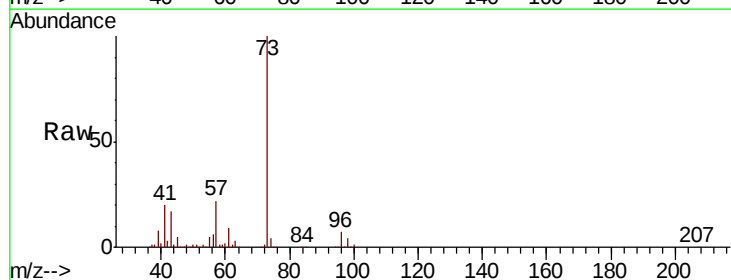
Tgt Ion: 73 Resp: 692587

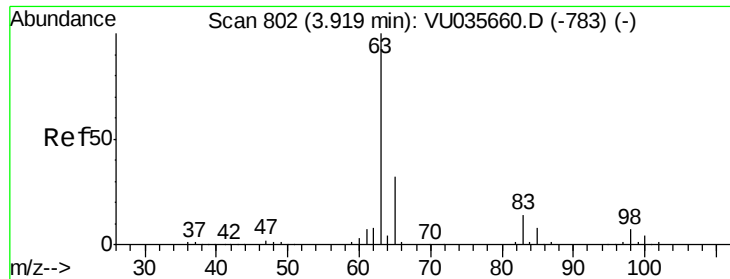
Ion Ratio Lower Upper

73 100

43 17.3 14.2 21.2

57 22.3 18.3 27.5





#19

1,1-Dichloroethane

Concen: 50.144 ug/L

RT: 3.92 min Scan# 803

Delta R.T. 0.00 min

Lab File: VU035681.D

Acq: 07 Nov 2019 23:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05040

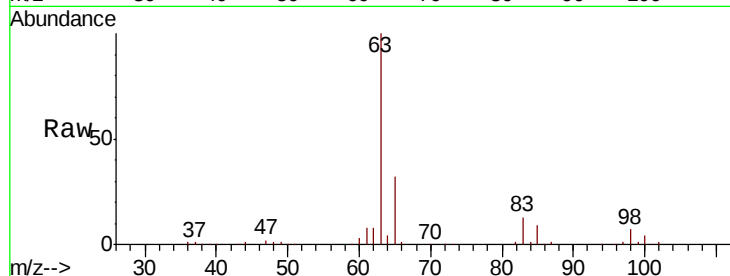
Tot Ion: 63 Resp: 433617

Ion Ratio Lower Upper

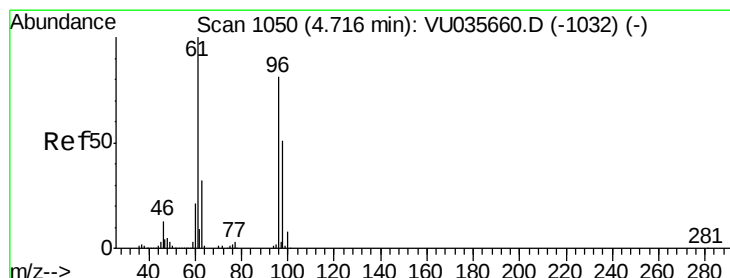
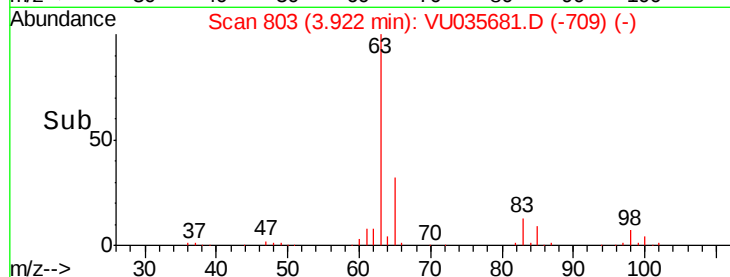
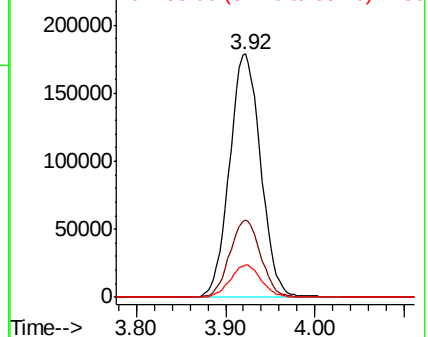
63 100

65 31.8 22.1 41.1

83 13.5 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: 51.674 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VU035681.D

Acq: 07 Nov 2019 23:36

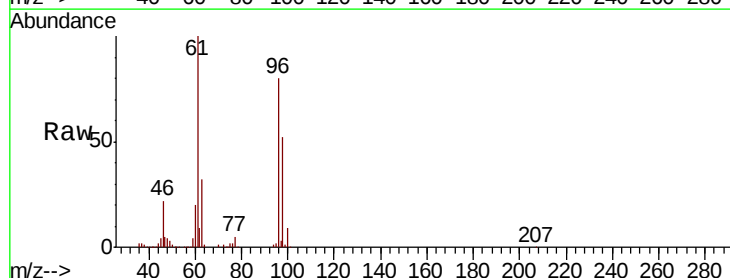
Tgt Ion: 96 Resp: 261277

Ion Ratio Lower Upper

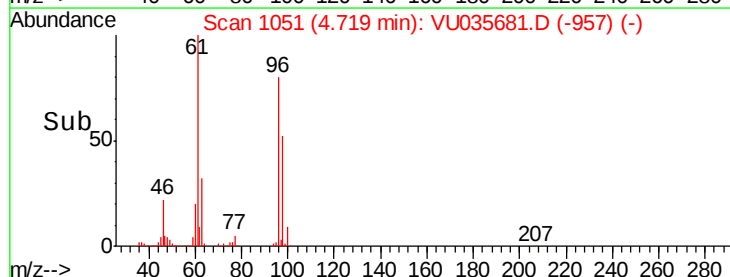
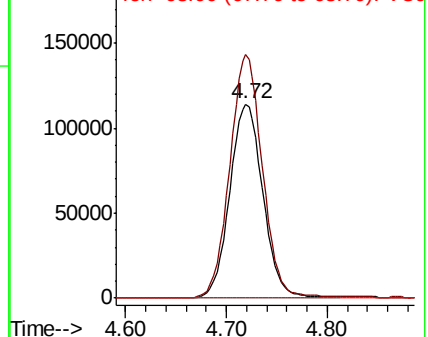
96 100

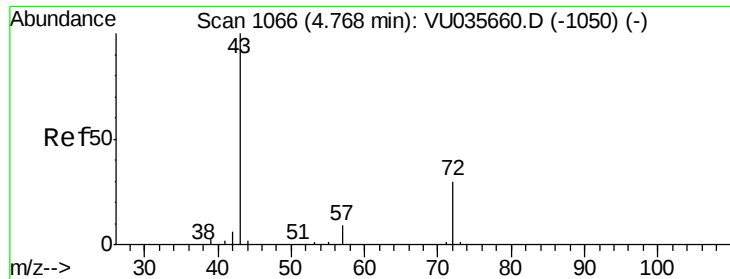
61 125.4 90.6 168.3

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: 96.751 ug/L

RT: 4.77 min Scan# 1067

Delta R.T. 0.00 min

Lab File: VU035681.D

Acq: 07 Nov 2019 23:36

Instrument :

MSVOA_U

ClientSampleId :

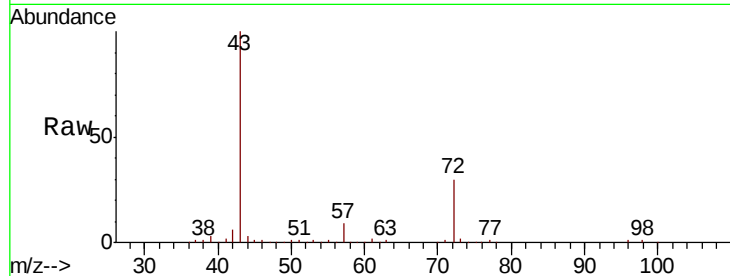
VSTD05040

Tot Ion: 43 Resp: 369436

Ion Ratio Lower Upper

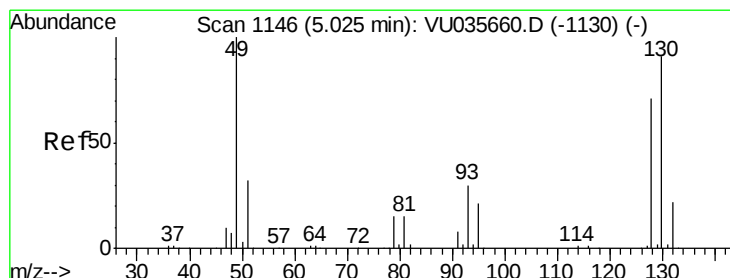
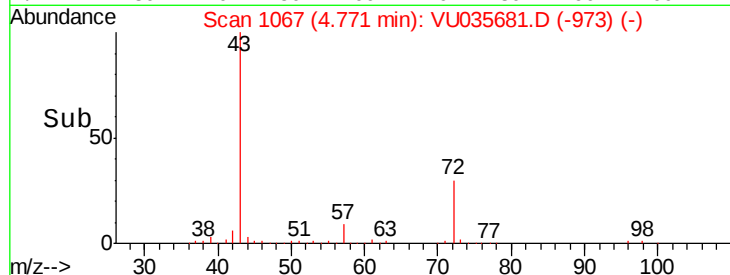
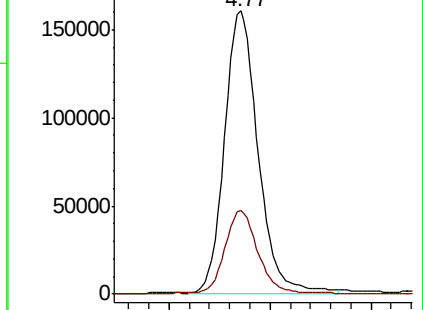
43 100

72 28.6 13.5 40.4



Abundance Ion 43.00 (42.70 to 43.70): VU035681.D (-973) (-)

Ion 72.00 (71.70 to 72.70): VU035681.D (-973) (-)



#23

Bromochloromethane

Concen: 52.665 ug/L

RT: 5.02 min Scan# 1146

Delta R.T. -0.00 min

Lab File: VU035681.D

Acq: 07 Nov 2019 23:36

Tgt Ion:128 Resp: 140715

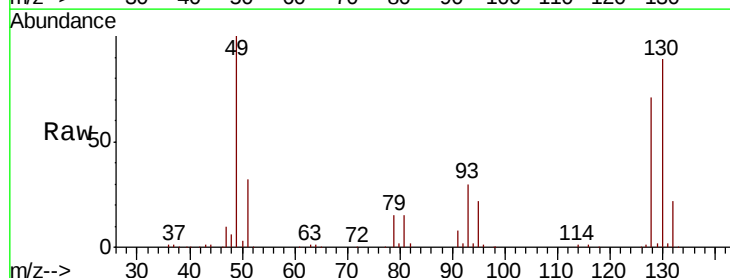
Ion Ratio Lower Upper

128 100

49 141.5 106.4 197.6

130 125.5 88.1 163.5

51 45.4 38.8 58.2

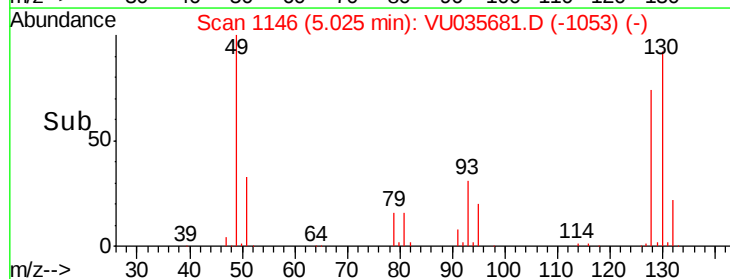
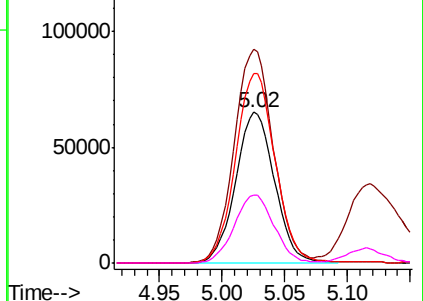


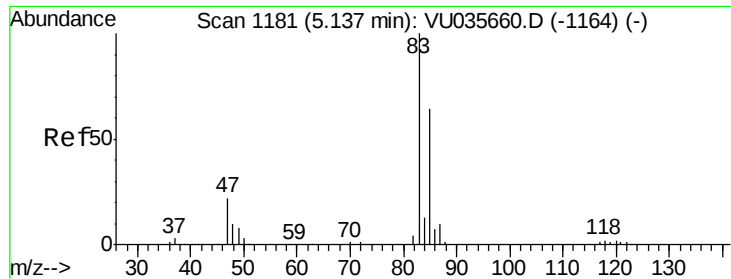
Abundance Ion 128.00 (127.70 to 128.70): VU035681.D (-1053) (-)

Ion 49.00 (48.70 to 49.70): VU035681.D (-1053) (-)

Ion 130.00 (129.70 to 130.70): VU035681.D (-1053) (-)

Ion 51.00 (50.70 to 51.70): VU035681.D (-1053) (-)

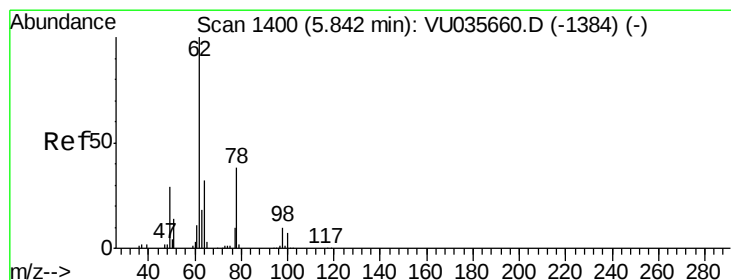
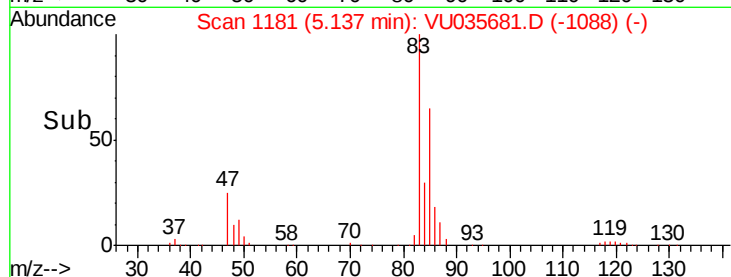
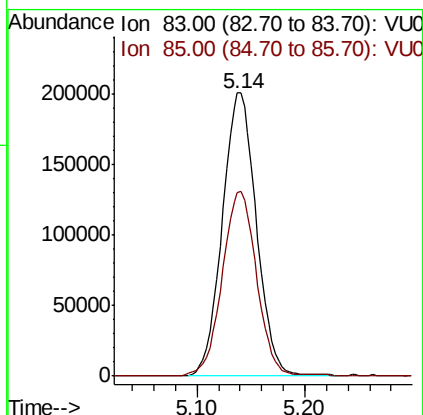
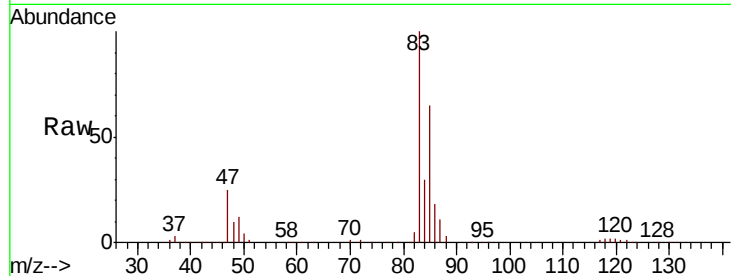




#25
Chloroform
Concen: 50.271 ug/L
RT: 5.14 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VU035681.D
Acq: 07 Nov 2019 23:36

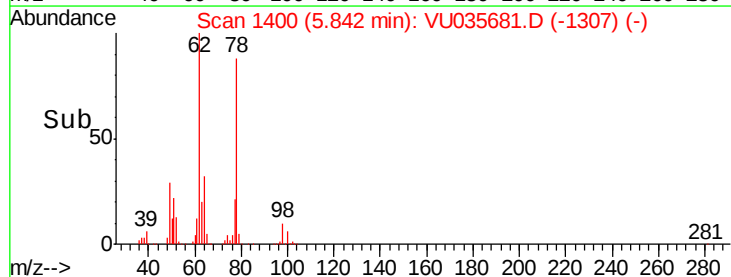
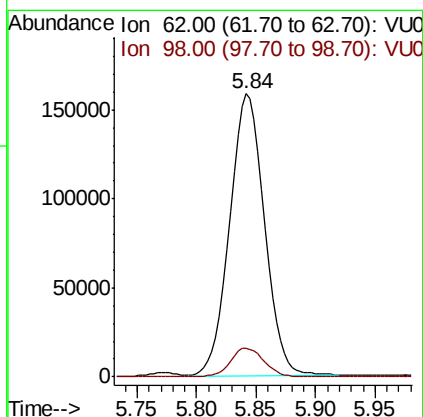
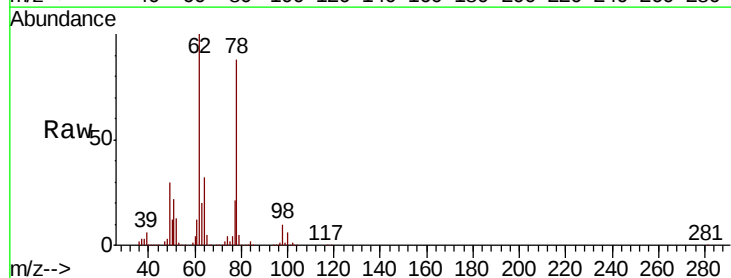
Instrument :
MSVOA_U
ClientSampleId :
VSTD05040

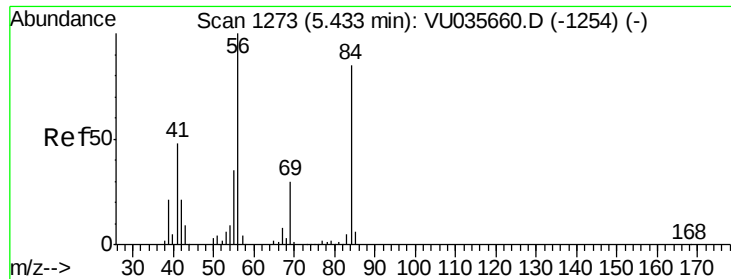
Tot Ion: 83 Resp: 441502
Ion Ratio Lower Upper
83 100
85 65.0 45.4 84.4



#27
1,2-Dichloroethane
Concen: 49.982 ug/L
RT: 5.84 min Scan# 1400
Delta R.T. -0.00 min
Lab File: VU035681.D
Acq: 07 Nov 2019 23:36

Tgt Ion: 62 Resp: 320702
Ion Ratio Lower Upper
62 100
98 10.3 8.2 12.2

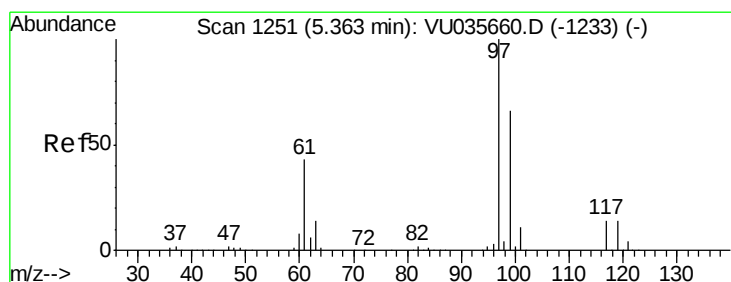
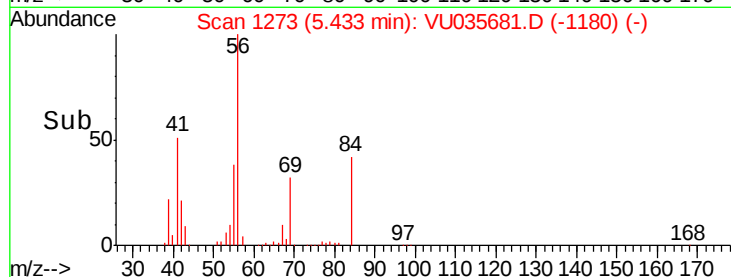
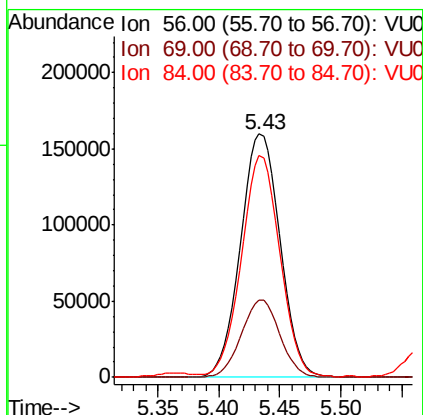
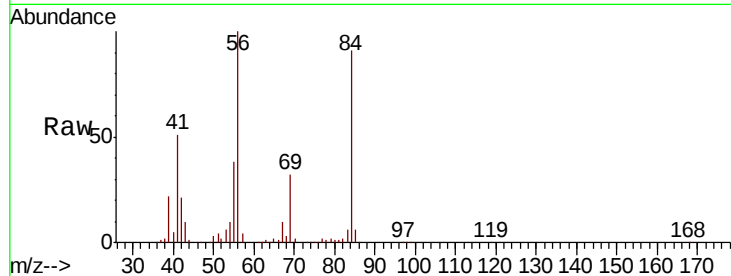




#29
Cyclohexane
Concen: 51.476 ug/L
RT: 5.43 min Scan# 1273
Delta R.T. -0.00 min
Lab File: VU035681.D
Acq: 07 Nov 2019 23:36

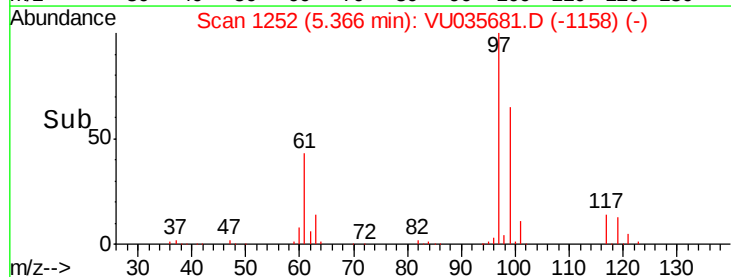
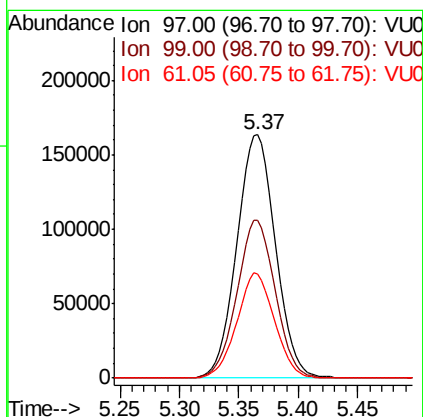
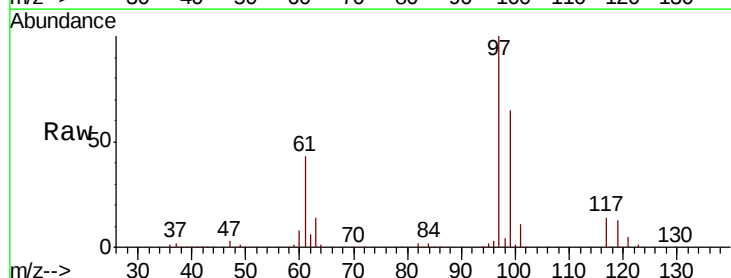
Instrument :
MSVOA_U
ClientSampleId :
VSTD05040

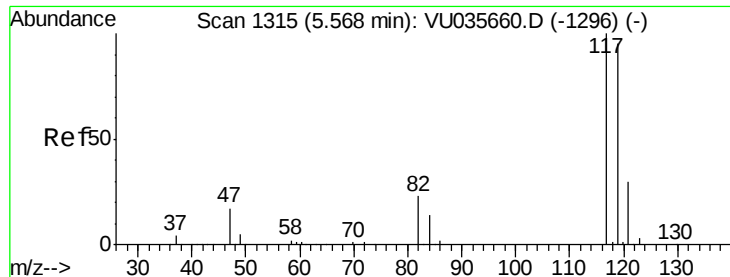
Tot Ion: 56 Resp: 359600
Ion Ratio Lower Upper
56 100
69 30.8 24.4 36.6
84 88.0 68.6 102.8



#30
1,1,1-Trichloroethane
Concen: 51.144 ug/L
RT: 5.37 min Scan# 1252
Delta R.T. 0.00 min
Lab File: VU035681.D
Acq: 07 Nov 2019 23:36

Tgt Ion: 97 Resp: 368166
Ion Ratio Lower Upper
97 100
99 64.2 51.5 77.3
61 41.8 35.1 52.7





#31

Carbon tetrachloride

Concen: 50.616 ug/L

RT: 5.57 min Scan# 1316

Delta R.T. 0.00 min

Lab File: VU035681.D

Acq: 07 Nov 2019 23:36

Instrument :

MSVOA_U

ClientSampleId :

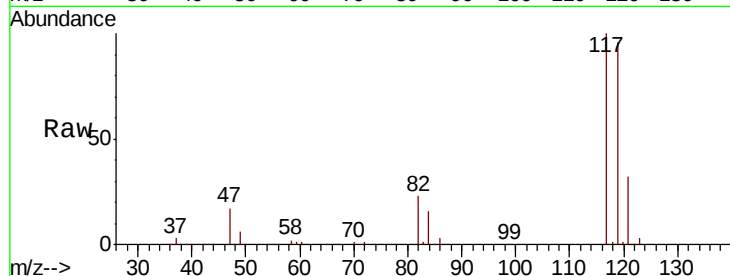
VSTD05040

Tot Ion:117 Resp: 323984

Ion Ratio Lower Upper

117 100

119 96.9 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

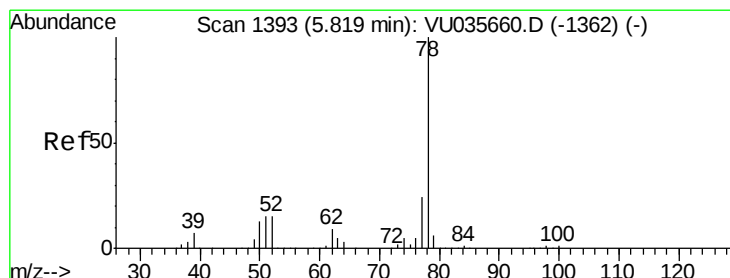
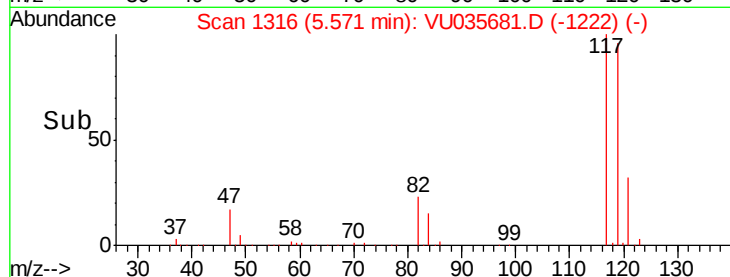
50000

0

5.57

5.45 5.50 5.55 5.60 5.65

Time-->



#33

Benzene

Concen: 51.414 ug/L

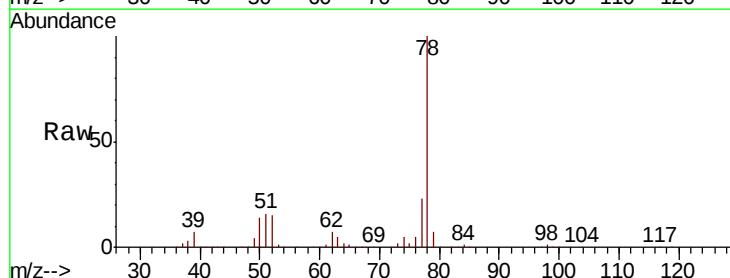
RT: 5.82 min Scan# 1393

Delta R.T. -0.00 min

Lab File: VU035681.D

Acq: 07 Nov 2019 23:36

Tgt Ion: 78 Resp: 989645



Abundance Ion 78.00 (77.70 to 78.70): VU0

500000

400000

300000

200000

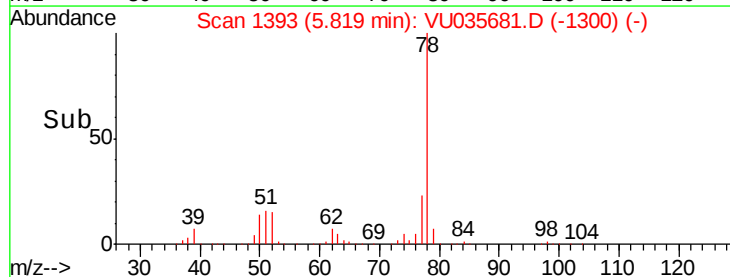
100000

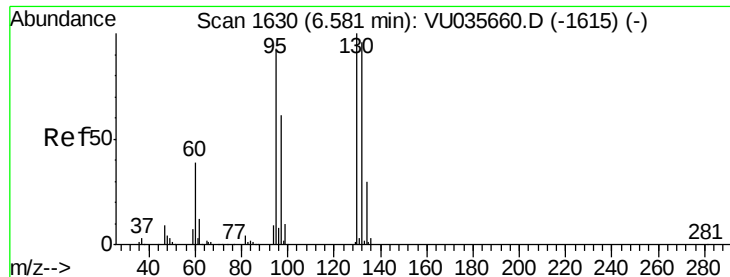
0

5.82

5.70 5.80 5.90

Time-->

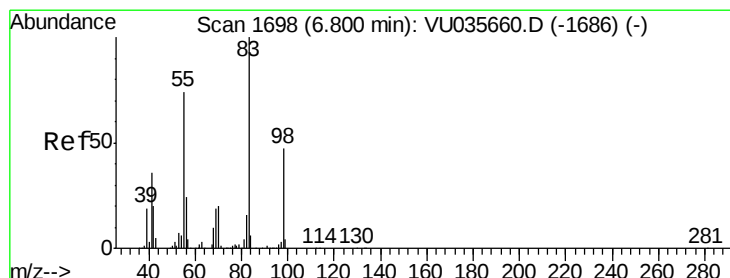
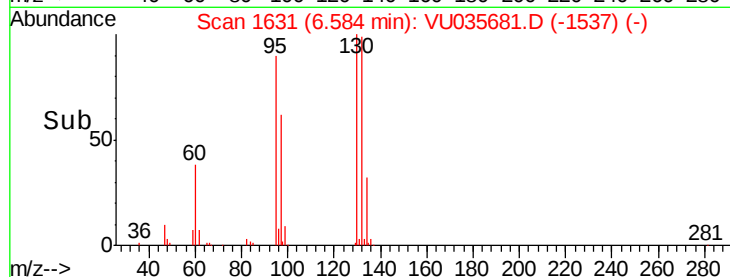
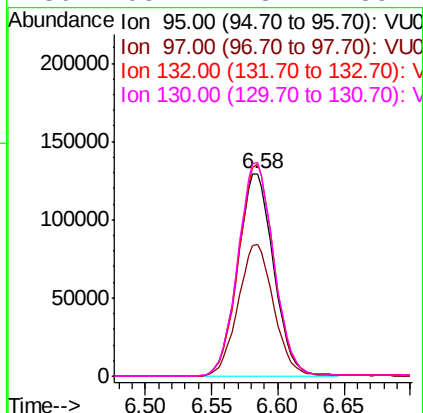
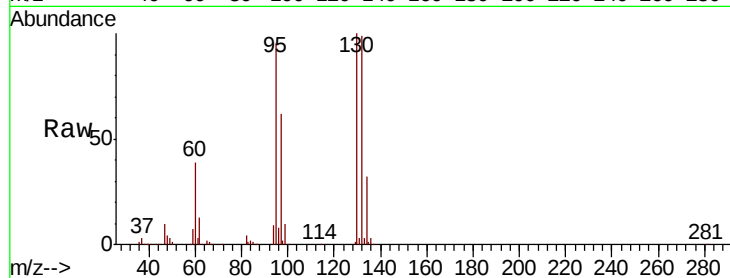




#34
 Trichloroethene
 Concen: 49.970 ug/L
 RT: 6.58 min Scan# 1631
 Delta R.T. 0.00 min
 Lab File: VU035681.D
 Acq: 07 Nov 2019 23:36

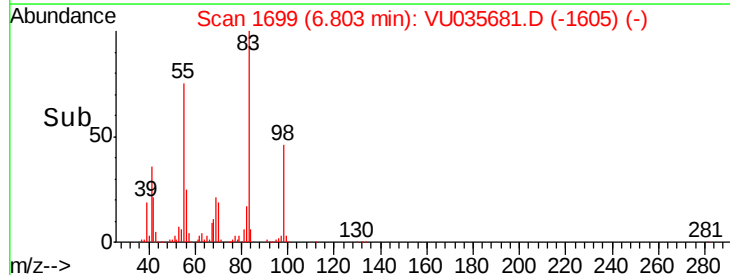
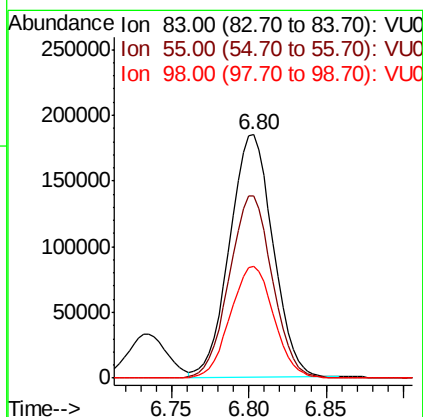
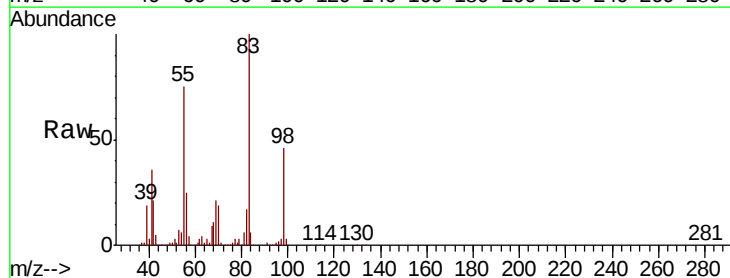
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05040

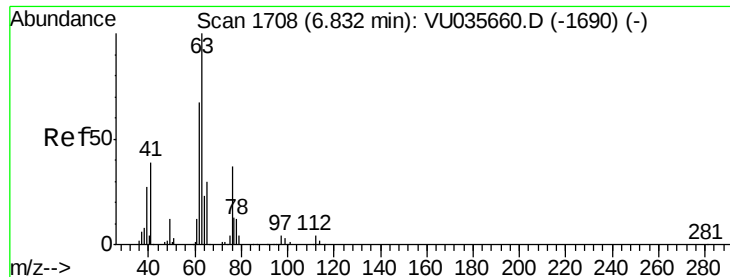
Tot Ion	95	Resp	244528
Ion Ratio	Lower	Upper	
95	100		
97	65.0	45.6	84.6
132	104.9	69.9	129.7
130	105.4	73.1	135.7



#35
 Methylcyclohexane
 Concen: 50.524 ug/L
 RT: 6.80 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VU035681.D
 Acq: 07 Nov 2019 23:36

Tgt Ion	83	Resp	359073
Ion Ratio	Lower	Upper	
83	100		
55	74.7	61.0	91.4
98	46.2	36.6	54.8





#37

1,2-Dichloropropane

Concen: 50.985 ug/L

RT: 6.83 min Scan# 1708

Delta R.T. -0.00 min

Lab File: VU035681.D

Acq: 07 Nov 2019 23:36

Instrument :

MSVOA_U

ClientSampleId :

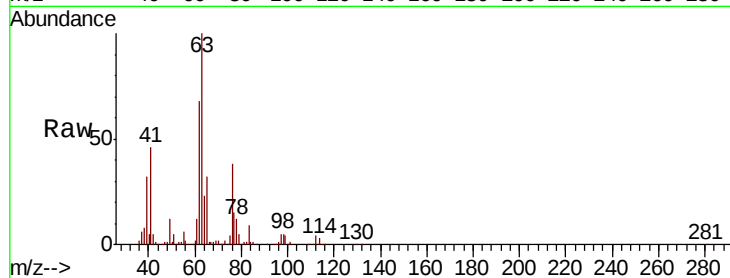
VSTD05040

Tot Ion: 63 Resp: 262805

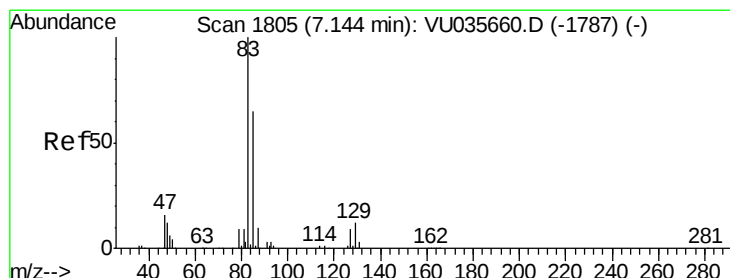
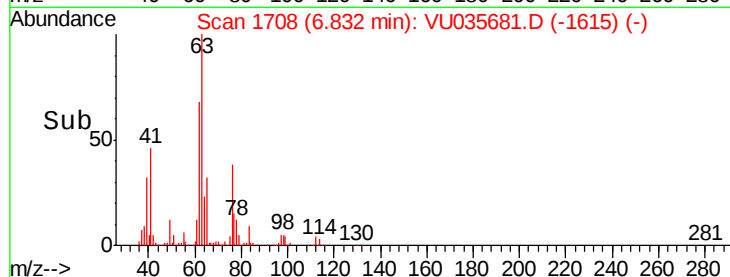
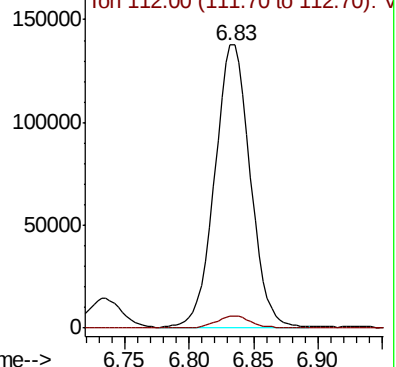
Ion Ratio Lower Upper

63 100

112 4.2 3.2 4.8



Abundance Ion 63.00 (62.70 to 63.70): VU035681.D (-1615) (-)



#38

Bromodichloromethane

Concen: 49.405 ug/L

RT: 7.15 min Scan# 1806

Delta R.T. 0.00 min

Lab File: VU035681.D

Acq: 07 Nov 2019 23:36

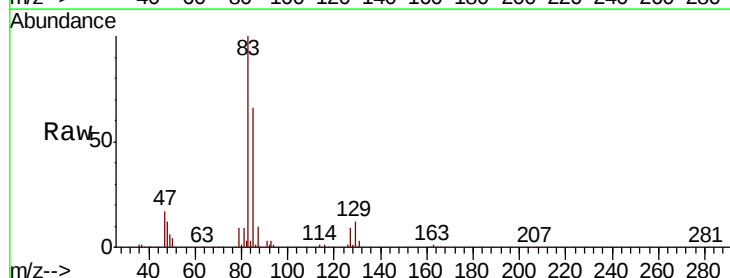
Tgt Ion: 83 Resp: 323695

Ion Ratio Lower Upper

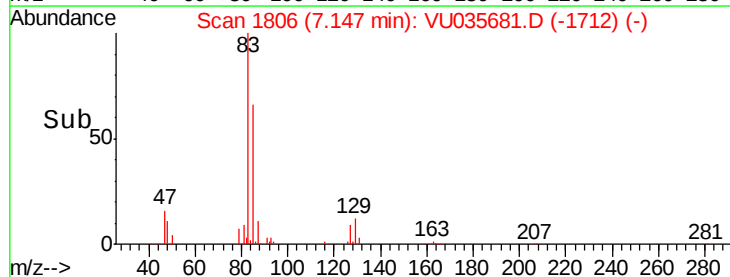
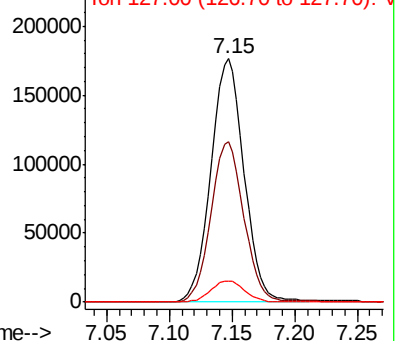
83 100

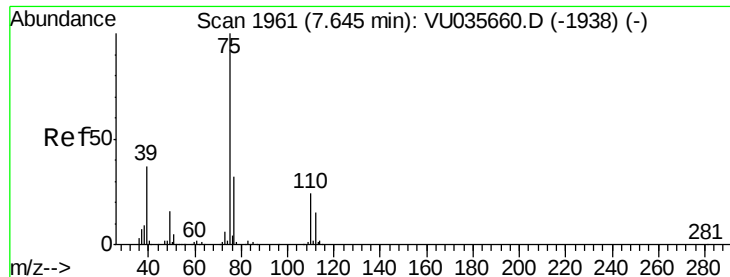
85 65.8 45.1 83.7

127 8.8 7.2 10.8



Abundance Ion 83.00 (82.70 to 83.70): VU035681.D (-1712) (-)

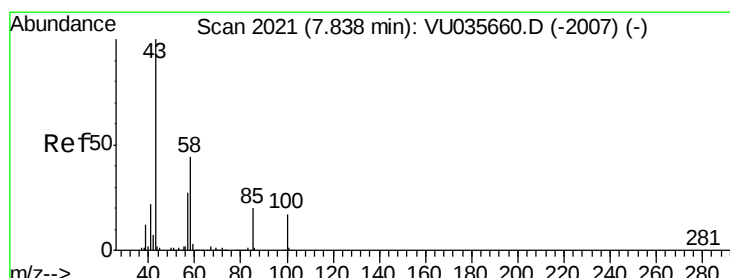
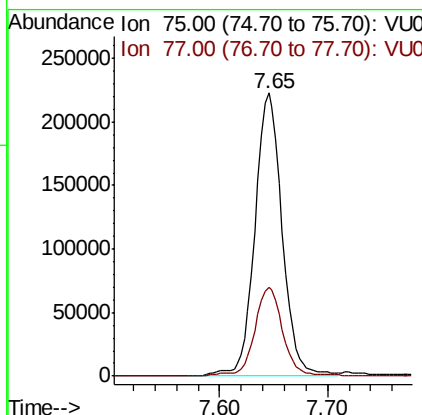
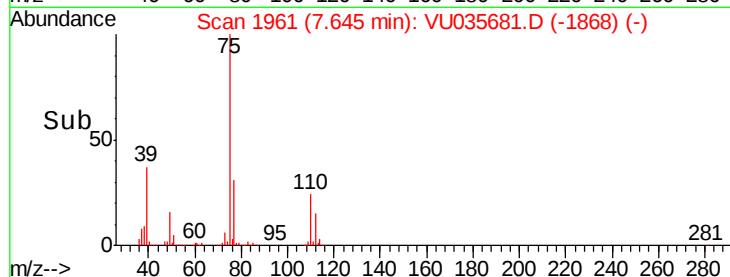
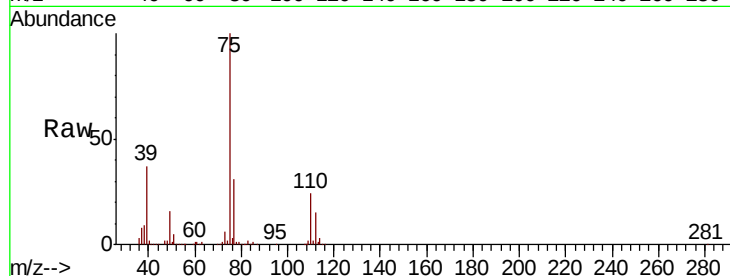




#39
 cis-1,3-Dichloropropene
 Concen: 51.083 ug/L
 RT: 7.65 min Scan# 1961
 Delta R.T. -0.00 min
 Lab File: VU035681.D
 Acq: 07 Nov 2019 23:36

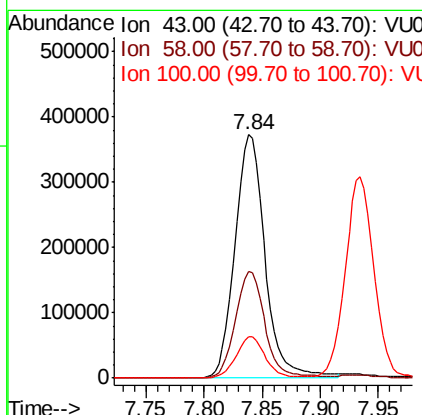
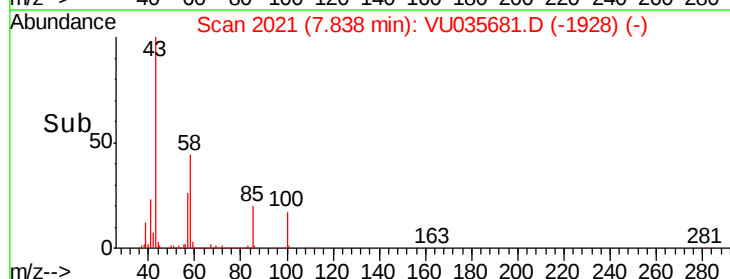
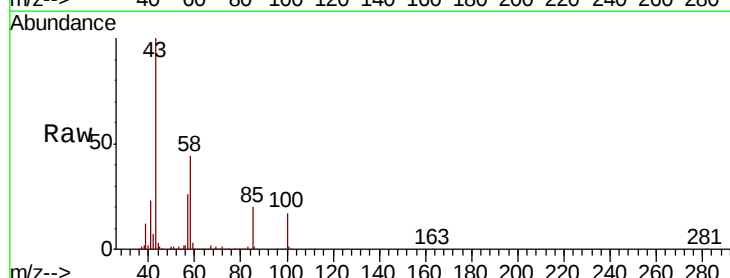
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05040

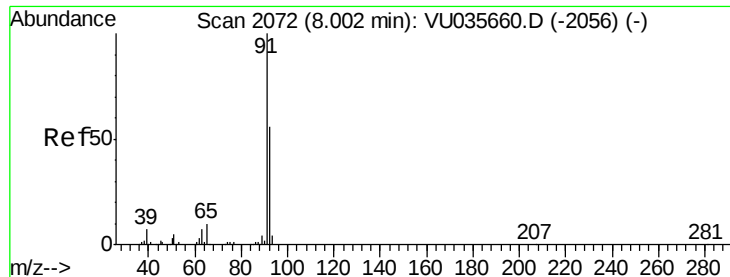
Tot Ion: 75 Resp: 391386
 Ion Ratio Lower Upper
 75 100
 77 31.5 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 97.240 ug/L
 RT: 7.84 min Scan# 2021
 Delta R.T. -0.00 min
 Lab File: VU035681.D
 Acq: 07 Nov 2019 23:36

Tgt Ion: 43 Resp: 670564
 Ion Ratio Lower Upper
 43 100
 58 43.3 32.6 49.0
 100 16.5 12.6 19.0





#42

Toluene

Concen: 53.151 ug/L

RT: 8.01 min Scan# 2073

Delta R.T. 0.00 min

Lab File: VU035681.D

Acq: 07 Nov 2019 23:36

Instrument :

MSVOA_U

ClientSampleId :

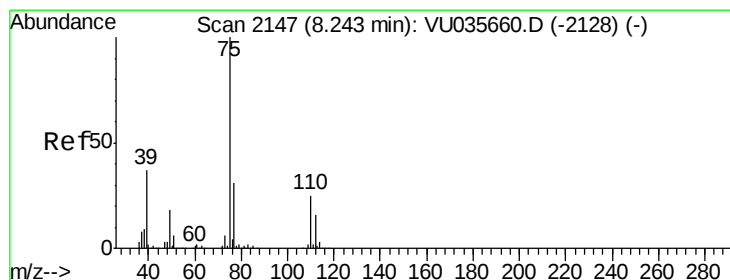
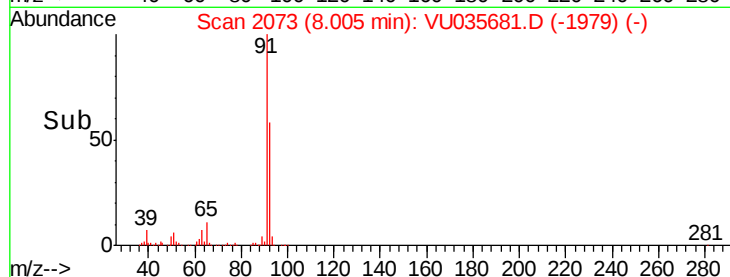
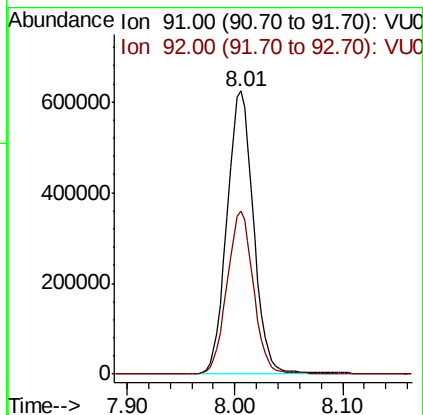
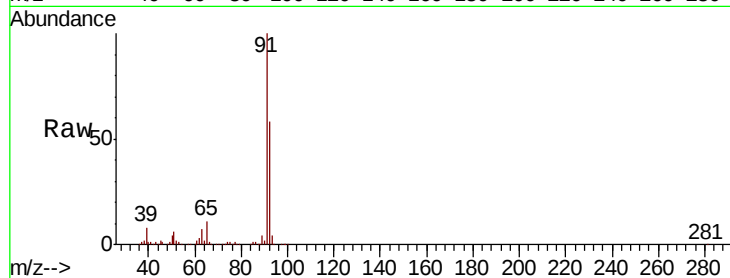
VSTD05040

Tot Ion: 91 Resp: 1072273

Ion Ratio Lower Upper

91 100

92 57.8 40.5 75.1



#44

trans-1,3-Dichloropropene

Concen: 49.389 ug/L

RT: 8.25 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VU035681.D

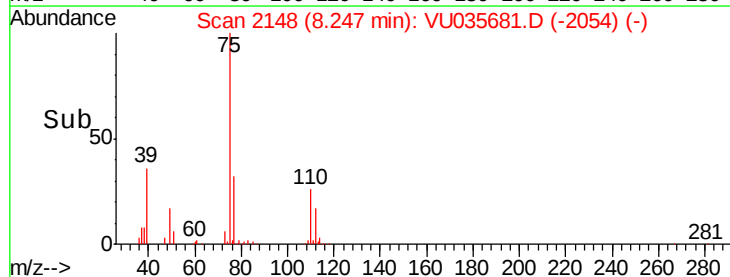
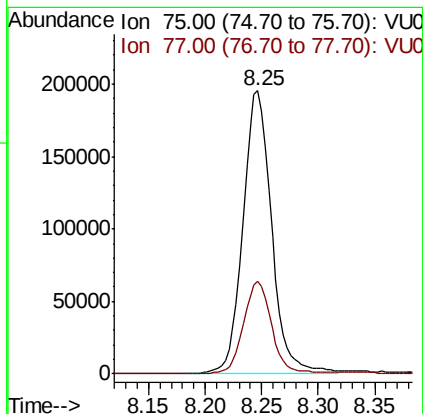
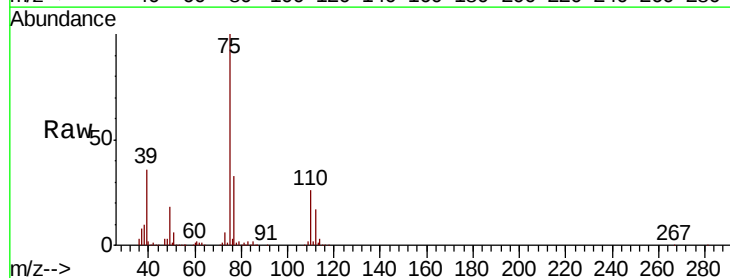
Acq: 07 Nov 2019 23:36

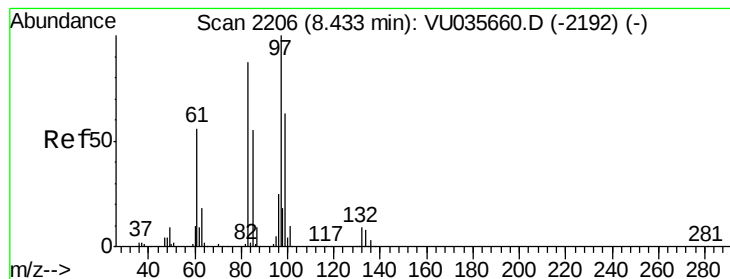
Tgt Ion: 75 Resp: 346864

Ion Ratio Lower Upper

75 100

77 32.7 22.1 41.1





#45

1,1,2-Trichloroethane

Concen: 50.711 ug/L

RT: 8.44 min Scan# 2207

Delta R.T. 0.00 min

Lab File: VU035681.D

Acq: 07 Nov 2019 23:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05040

Tot Ion: 97 Resp: 250545

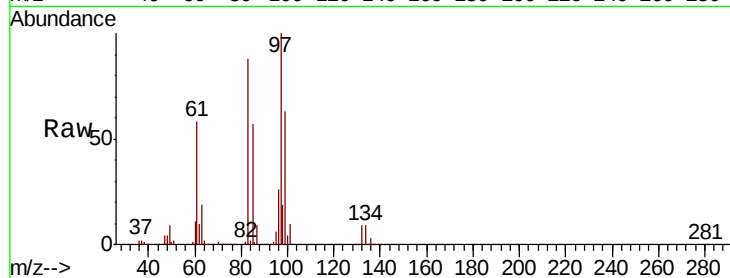
Ion Ratio Lower Upper

97 100

99 63.3 44.2 82.2

83 87.6 61.5 114.3

85 56.7 39.3 73.1

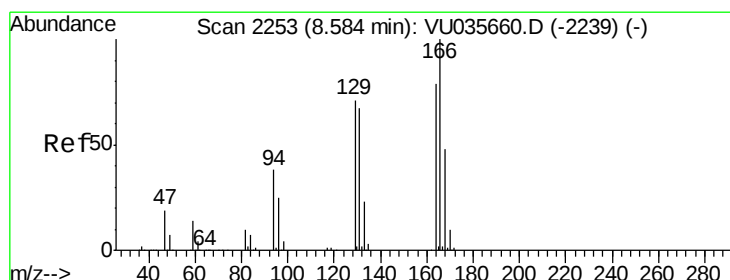
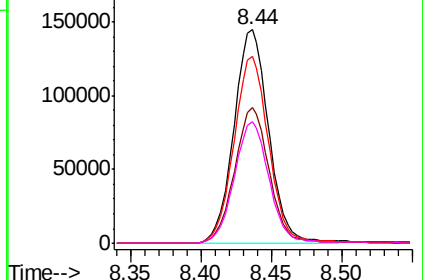
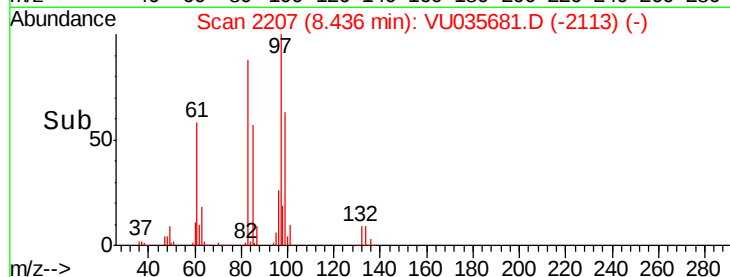


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 51.189 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. -0.00 min

Lab File: VU035681.D

Acq: 07 Nov 2019 23:36

Tgt Ion: 164 Resp: 209451

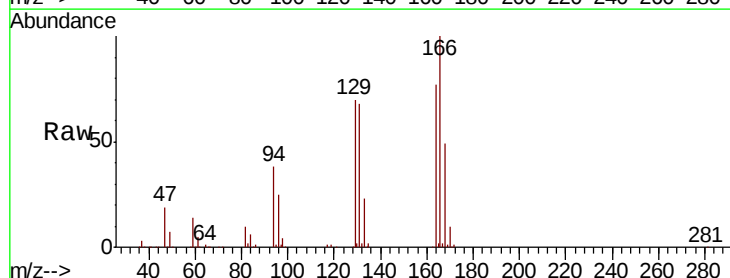
Ion Ratio Lower Upper

164 100

129 91.3 64.1 119.1

131 88.3 63.1 117.1

166 130.1 88.5 164.3

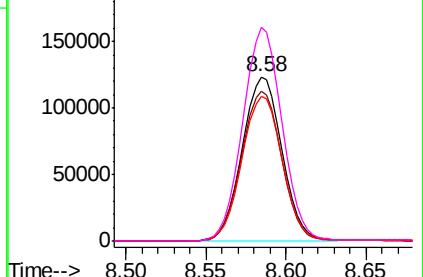
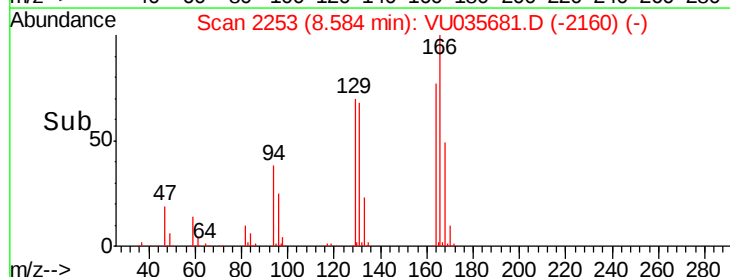


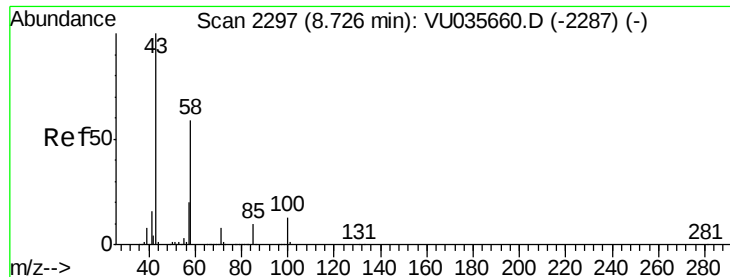
Abundance Ion 164.00 (163.70 to 164.70): V

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

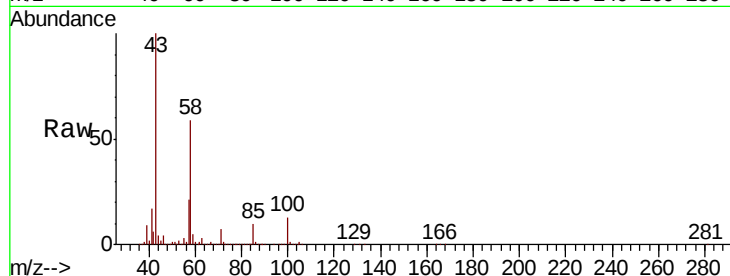




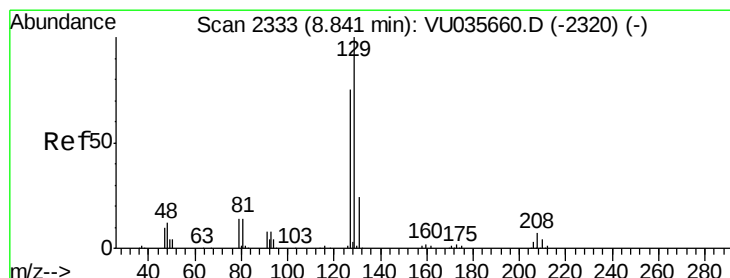
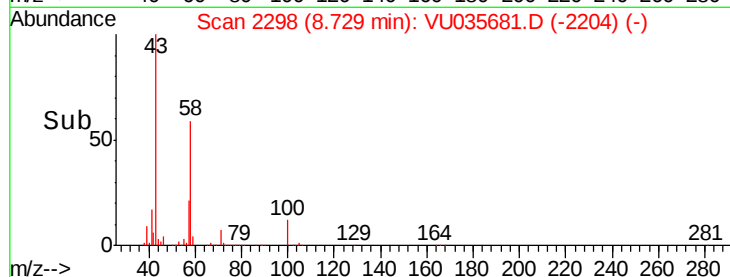
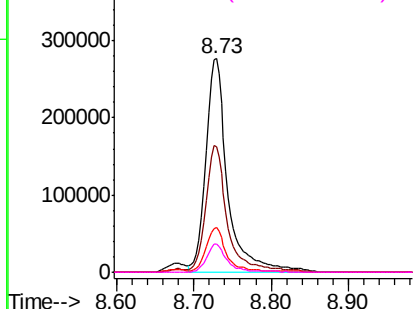
#48
2-Hexanone
Concen: 97.583 ug/L
RT: 8.73 min Scan# 2298
Delta R.T. 0.00 min
Lab File: VU035681.D
Acq: 07 Nov 2019 23:36

Instrument :
MSVOA_U
ClientSampleId :
VSTD05040

Tot Ion: 43 Resp: 547226
Ion Ratio Lower Upper
43 100
58 59.2 50.4 75.6
57 18.6 17.4 26.0
100 12.7 10.5 15.7

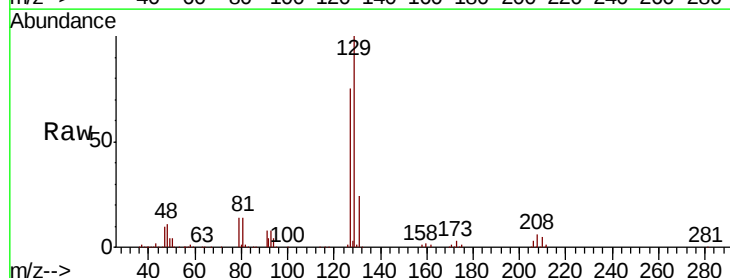


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

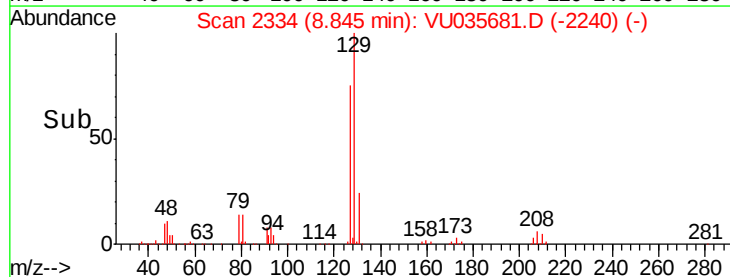
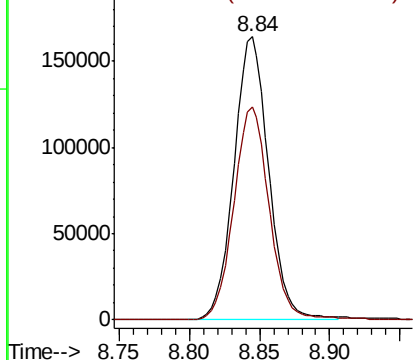


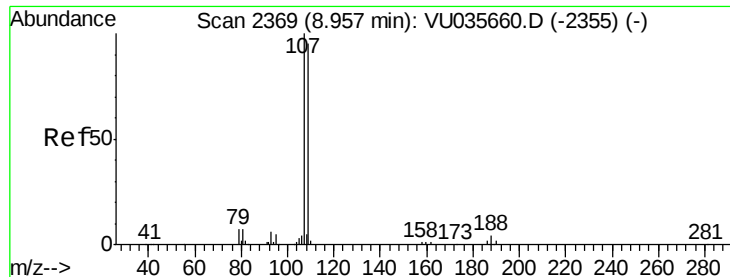
#49
Dibromochloromethane
Concen: 50.782 ug/L
RT: 8.84 min Scan# 2334
Delta R.T. 0.00 min
Lab File: VU035681.D
Acq: 07 Nov 2019 23:36

Tgt Ion: 129 Resp: 282940
Ion Ratio Lower Upper
129 100
127 75.3 54.9 101.9



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





#50

1,2-Dibromoethane

Concen: 51.091 ug/L

RT: 8.96 min Scan# 2369

Delta R.T. -0.00 min

Lab File: VU035681.D

Acq: 07 Nov 2019 23:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05040

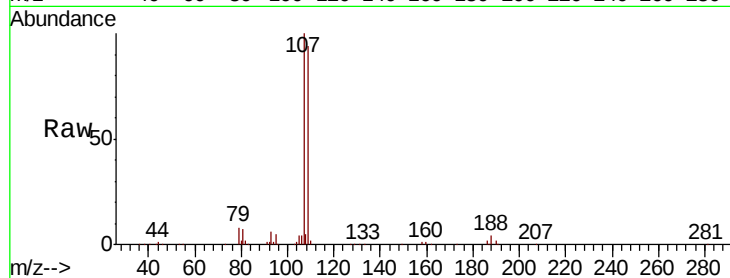
Tot Ion:107 Resp: 269316

Ion Ratio Lower Upper

107 100

109 94.4 66.8 124.2

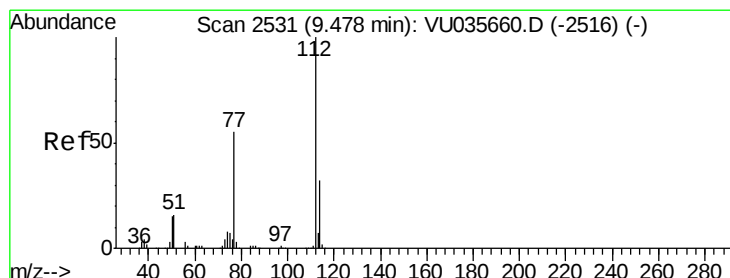
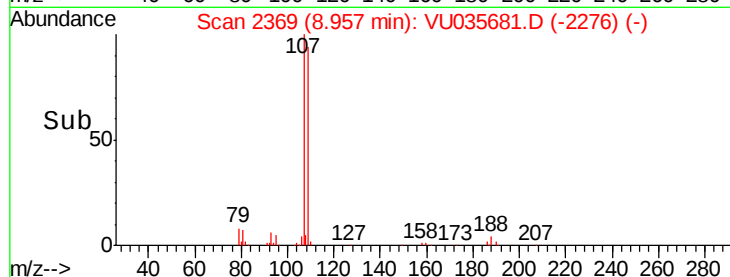
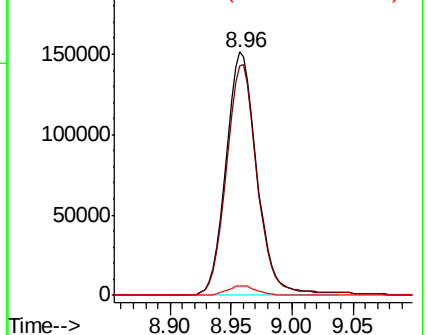
188 4.0 3.2 4.8



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: 50.972 ug/L

RT: 9.48 min Scan# 2531

Delta R.T. -0.00 min

Lab File: VU035681.D

Acq: 07 Nov 2019 23:36

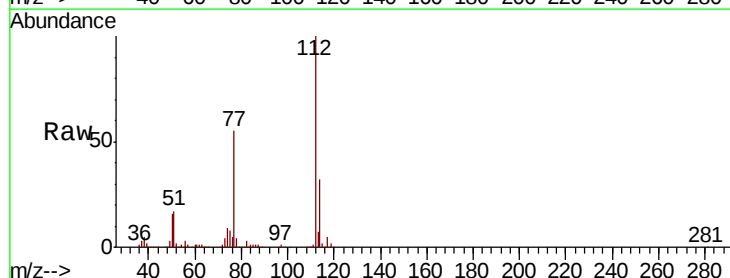
Tgt Ion:112 Resp: 686489

Ion Ratio Lower Upper

112 100

114 31.7 22.7 42.3

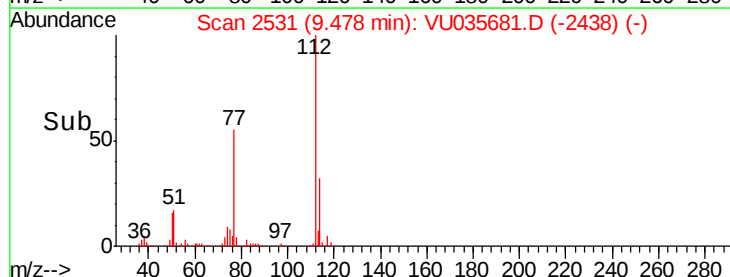
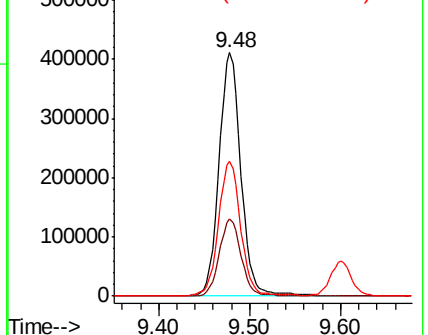
77 55.1 45.9 68.9

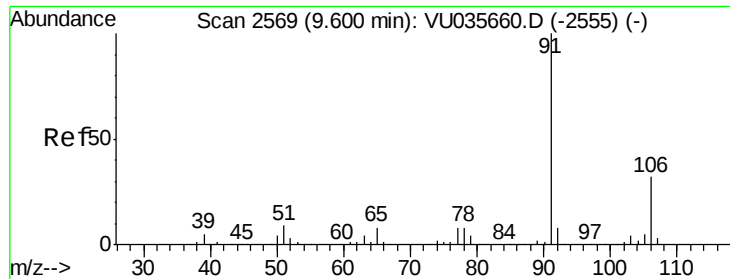


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VUO





#52

Ethylbenzene

Concen: 51.744 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU035681.D

Acq: 07 Nov 2019 23:36

Instrument :

MSVOA_U

ClientSampleId :

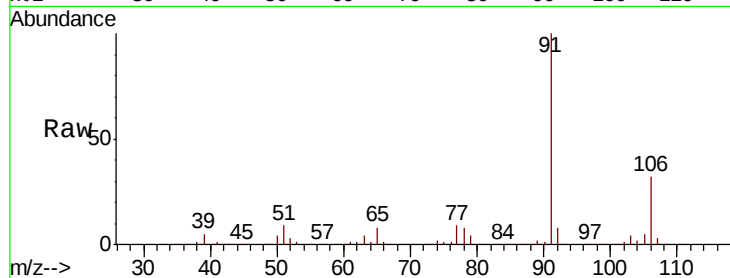
VSTD05040

Tot Ion: 91 Resp: 1115970

Ion Ratio Lower Upper

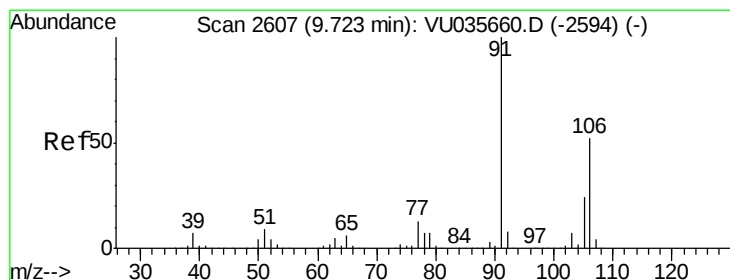
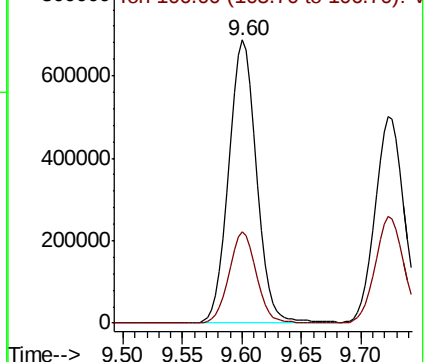
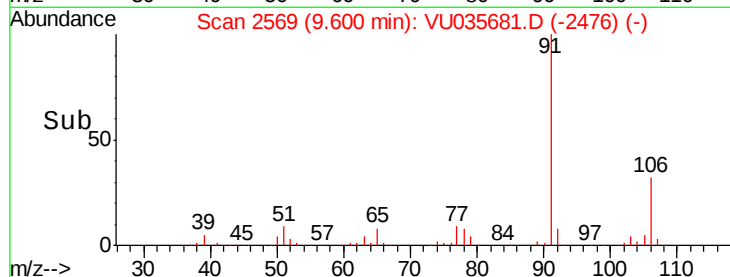
91 100

106 32.1 21.6 40.0



Abundance Ion 91.00 (90.70 to 91.70): VU035660.D (-2555) (-)

Ion 106.00 (105.70 to 106.70): VU035681.D (-2476) (-)



#53

m,p-Xylene

Concen: 54.128 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VU035681.D

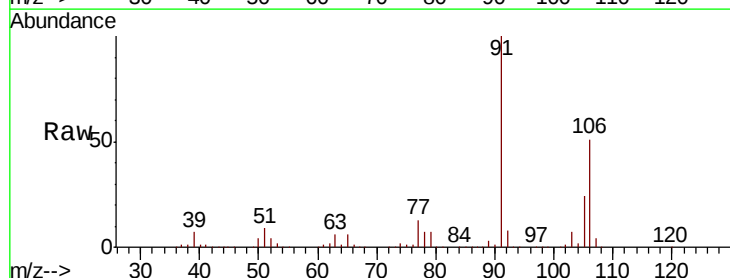
Acq: 07 Nov 2019 23:36

Tgt Ion: 106 Resp: 438049

Ion Ratio Lower Upper

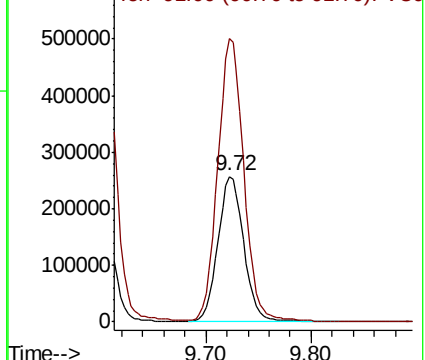
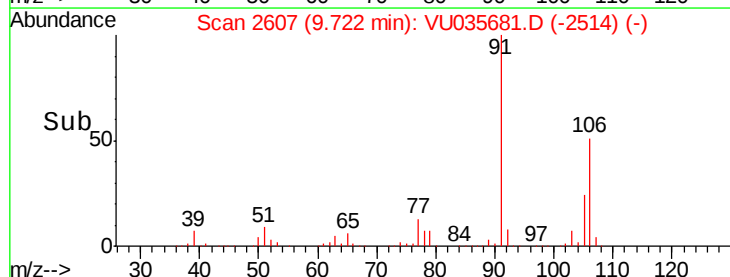
106 100

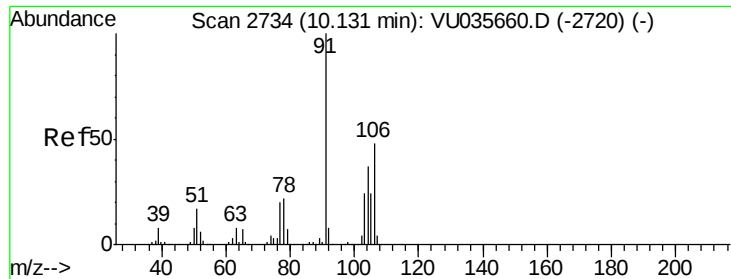
91 194.5 142.7 264.9



Abundance Ion 106.00 (105.70 to 106.70): VU035660.D (-2594) (-)

Ion 91.00 (90.70 to 91.70): VU035681.D (-2514) (-)





#54

o-xylene

Concen: 53.414 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. -0.00 min

Lab File: VU035681.D

Acq: 07 Nov 2019 23:36

Instrument :

MSVOA_U

ClientSampleId :

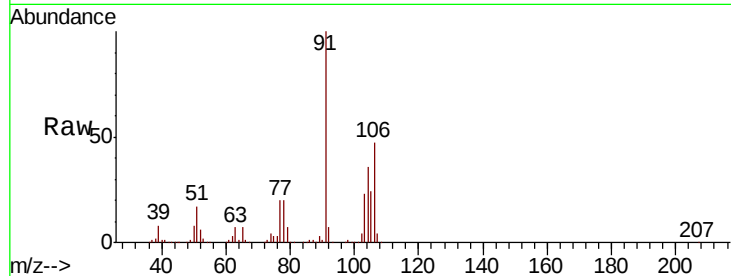
VSTD05040

Tot Ion:106 Resp: 422498

Ion Ratio Lower Upper

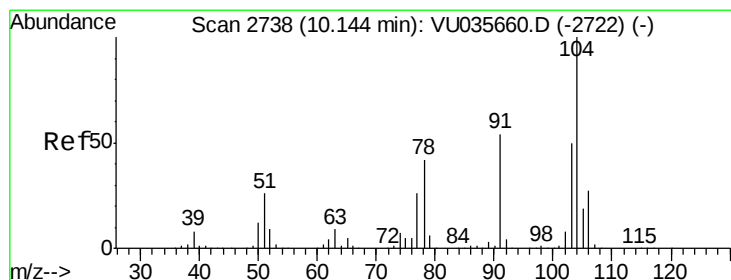
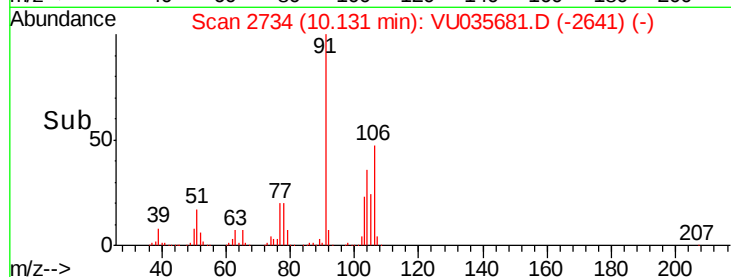
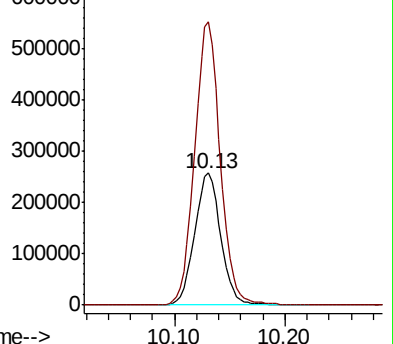
106 100

91 214.3 147.1 273.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 53.307 ug/L

RT: 10.14 min Scan# 2738

Delta R.T. -0.00 min

Lab File: VU035681.D

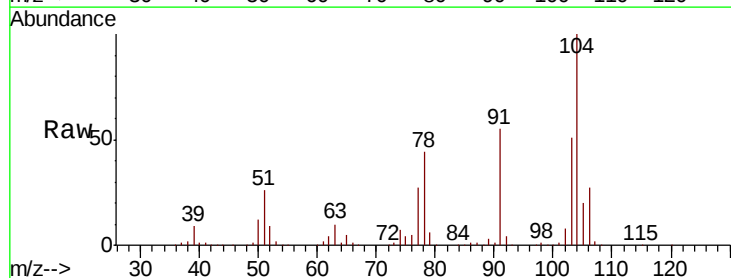
Acq: 07 Nov 2019 23:36

Tgt Ion:104 Resp: 699756

Ion Ratio Lower Upper

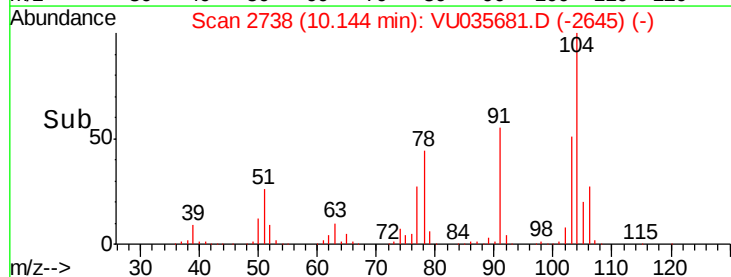
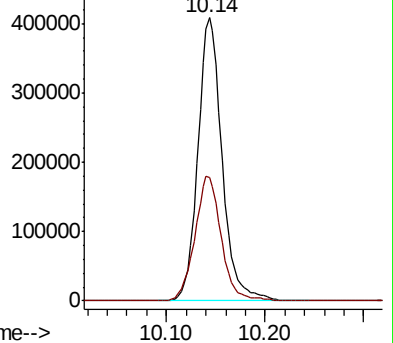
104 100

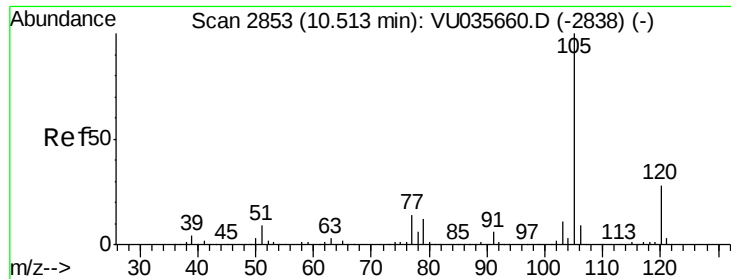
78 43.8 31.4 58.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 53.374 ug/L

RT: 10.51 min Scan# 2853

Delta R.T. -0.00 min

Lab File: VU035681.D

Acq: 07 Nov 2019 23:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05040

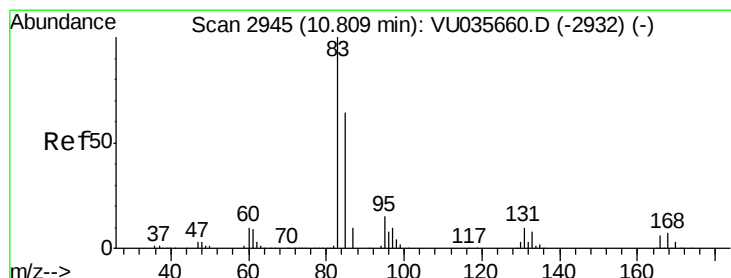
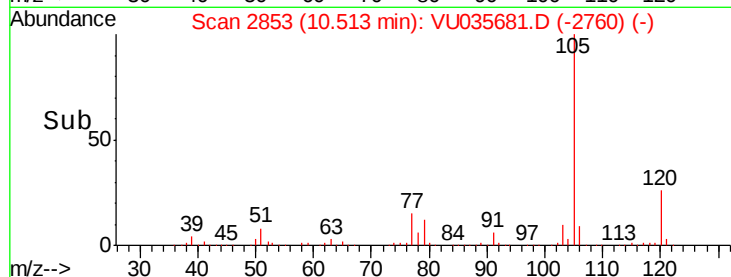
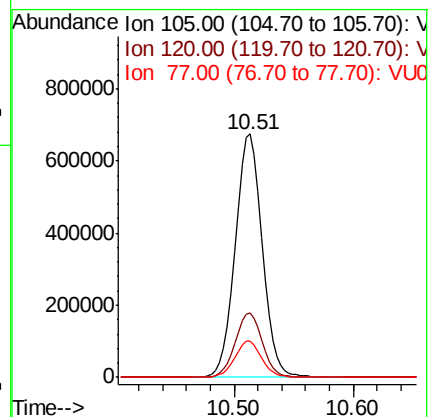
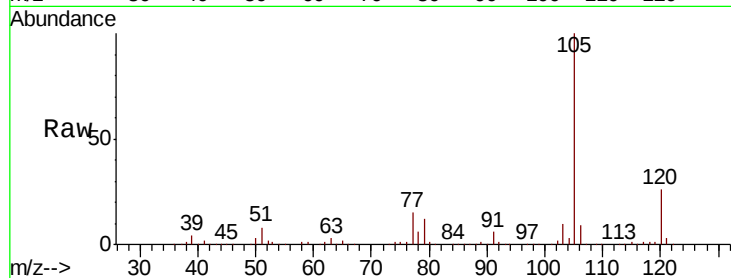
Tot Ion:105 Resp: 1060905

Ion Ratio Lower Upper

105 100

120 26.6 21.1 31.7

77 14.8 12.2 18.4



#58

1,1,2,2-Tetrachloroethane

Concen: 50.177 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. -0.00 min

Lab File: VU035681.D

Acq: 07 Nov 2019 23:36

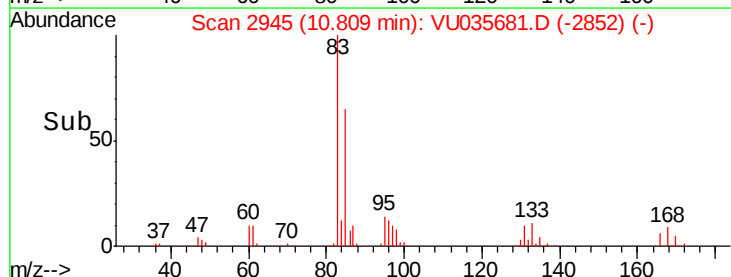
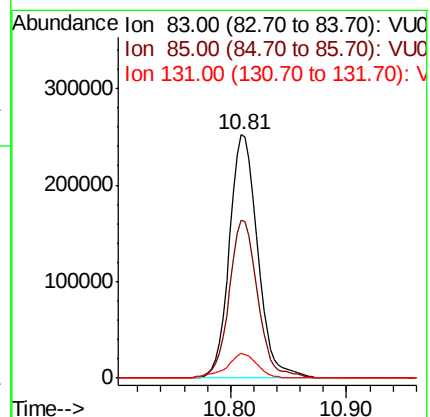
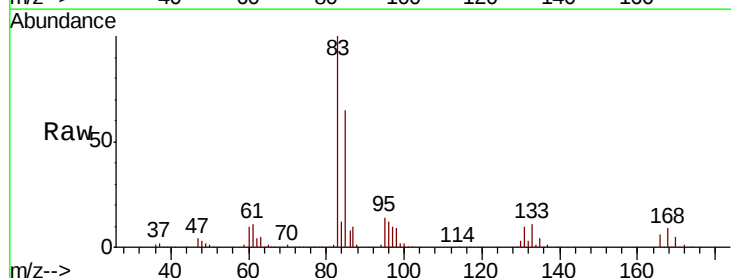
Tgt Ion: 83 Resp: 427013

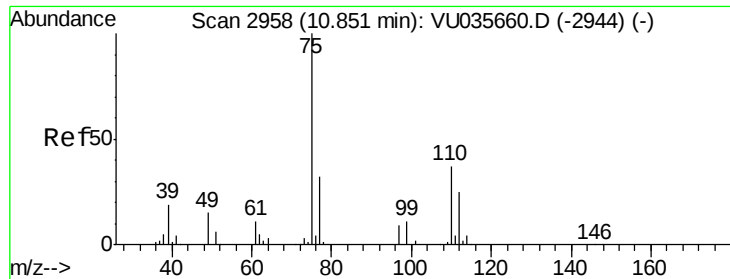
Ion Ratio Lower Upper

83 100

85 65.0 44.6 82.8

131 9.9 8.2 12.4





#59

1,2,3-Trichloropropane

Concen: 50.147 ug/L

RT: 10.85 min Scan# 2958

Delta R.T. -0.00 min

Lab File: VU035681.D

Acq: 07 Nov 2019 23:36

Instrument :

MSVOA_U

ClientSampleId :

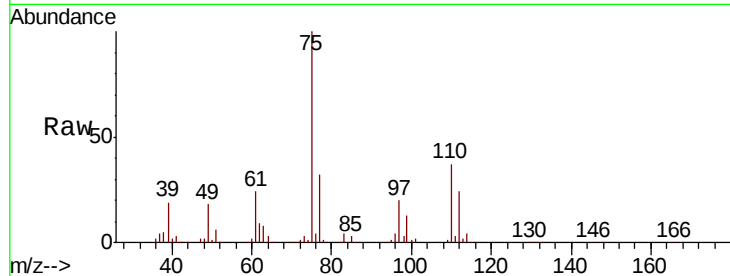
VSTD05040

Tot Ion: 75 Resp: 337042

Ion Ratio Lower Upper

75 100

77 32.1 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU035660.D (-2944) (-)

Ion 77.00 (76.70 to 77.70): VU035660.D (-2944) (-)

10.85

200000

150000

100000

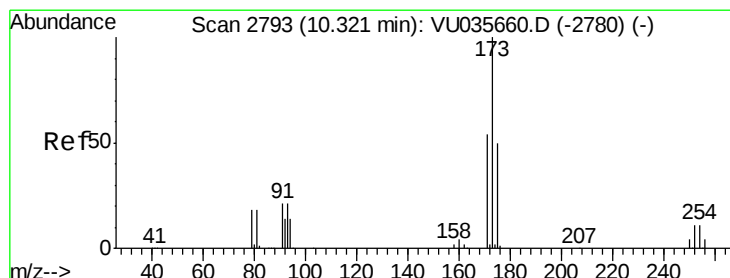
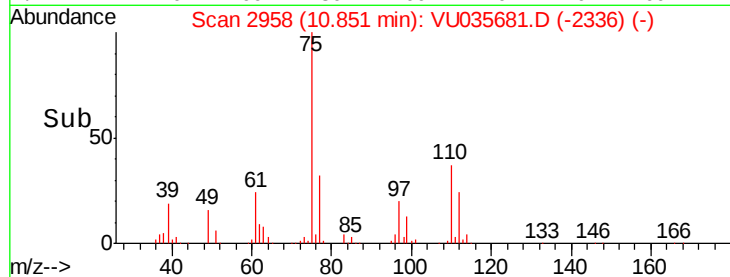
50000

0

10.80

10.90

Time-->



#61

Bromoform

Concen: 46.480 ug/L

RT: 10.32 min Scan# 2793

Delta R.T. -0.00 min

Lab File: VU035681.D

Acq: 07 Nov 2019 23:36

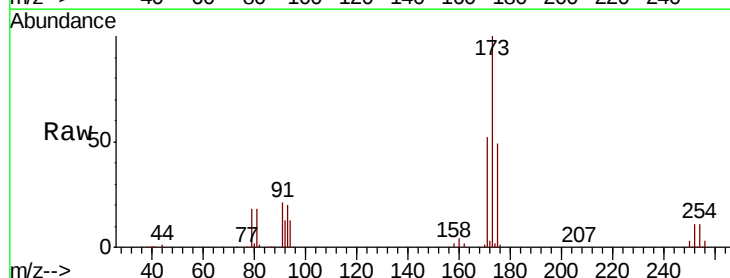
Tgt Ion: 173 Resp: 223106

Ion Ratio Lower Upper

173 100

175 48.7 39.4 59.0

254 10.5 8.1 12.1



Abundance Ion 173.00 (172.70 to 173.70): VU035660.D (-2780) (-)

Ion 175.00 (174.70 to 175.70): VU035660.D (-2780) (-)

Ion 254.00 (253.70 to 254.70): VU035660.D (-2780) (-)

10.32

150000

100000

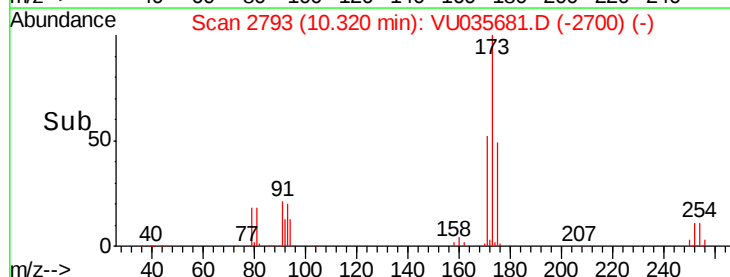
50000

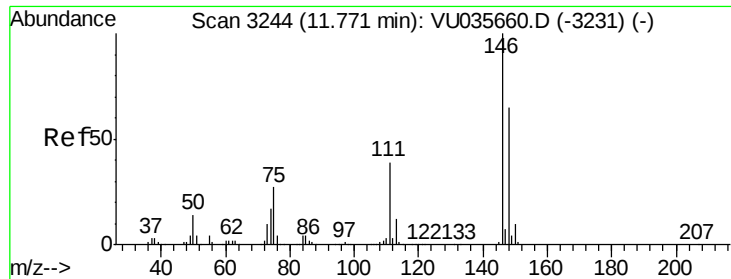
0

10.30

10.40

Time-->





#62

1,3-Dichlorobenzene

Concen: 48.203 ug/L

RT: 11.77 min Scan# 3244

Delta R.T. -0.00 min

Lab File: VU035681.D

Acq: 07 Nov 2019 23:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05040

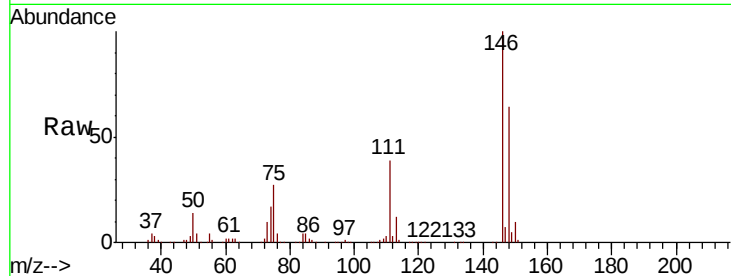
Tot Ion:146 Resp: 478444

Ion Ratio Lower Upper

146 100

111 38.6 27.8 51.6

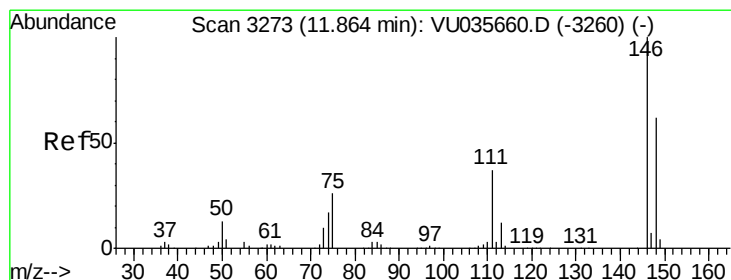
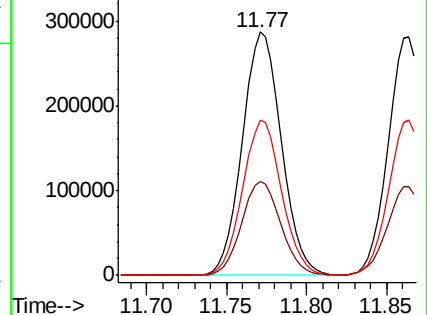
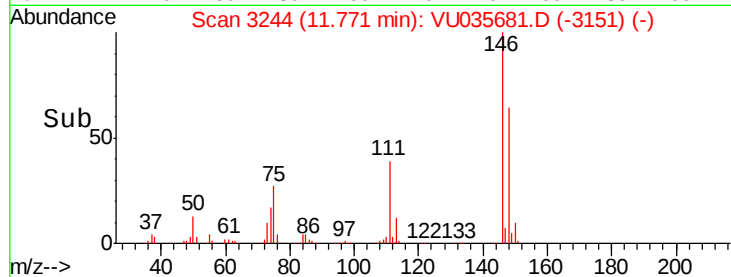
148 63.7 44.5 82.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 46.581 ug/L

RT: 11.86 min Scan# 3273

Delta R.T. -0.00 min

Lab File: VU035681.D

Acq: 07 Nov 2019 23:36

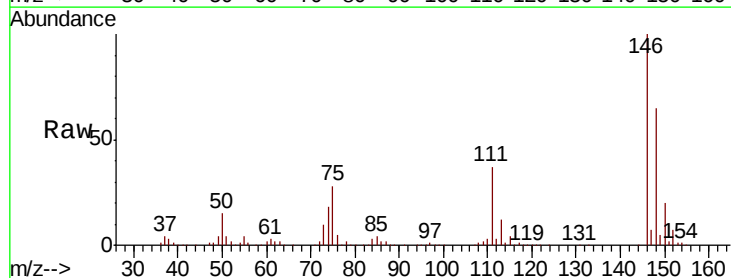
Tgt Ion:146 Resp: 469689

Ion Ratio Lower Upper

146 100

111 37.4 26.5 49.1

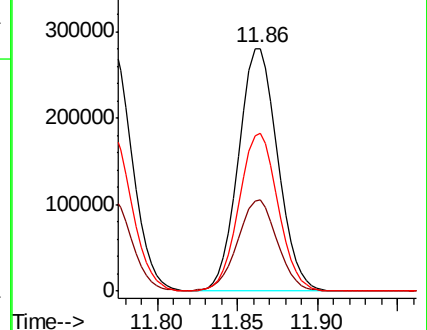
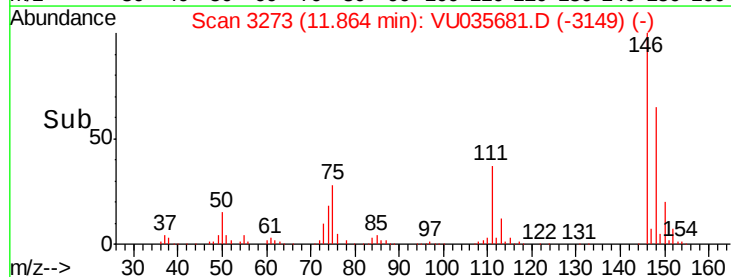
148 65.1 44.4 82.5

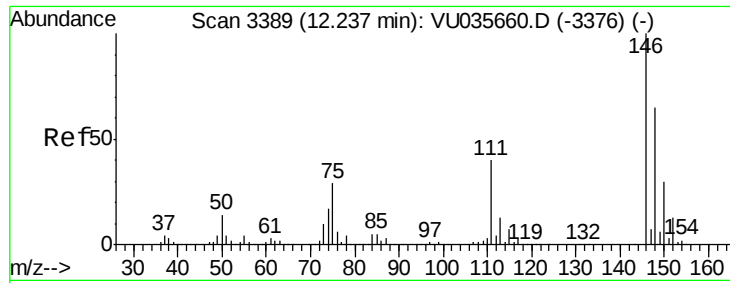


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

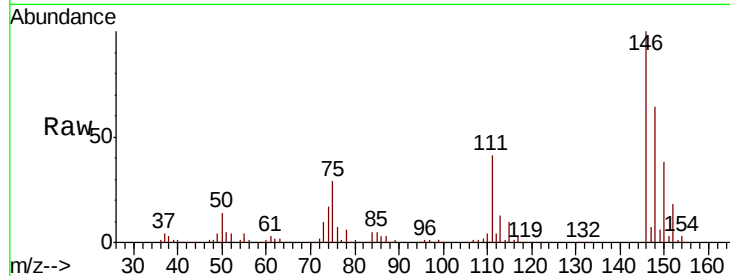




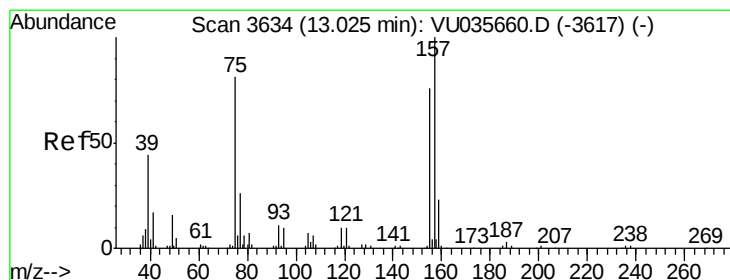
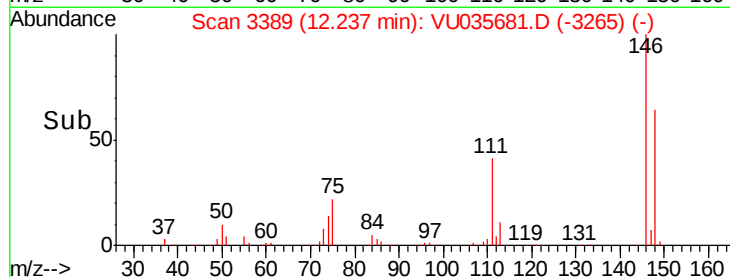
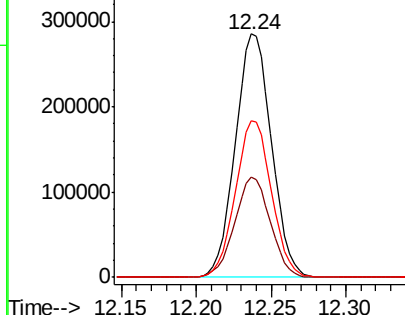
#65
 1,2-Dichlorobenzene
 Concen: 47.508 ug/L
 RT: 12.24 min Scan# 3389
 Delta R.T. -0.00 min
 Lab File: VU035681.D
 Acq: 07 Nov 2019 23:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05040

Tot Ion:146 Resp: 480064
 Ion Ratio Lower Upper
 146 100
 111 41.3 32.4 48.6
 148 64.3 51.8 77.6

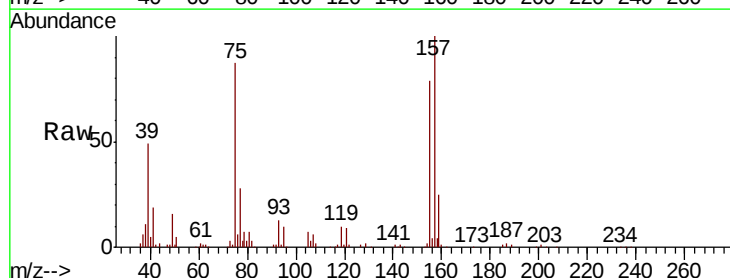


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

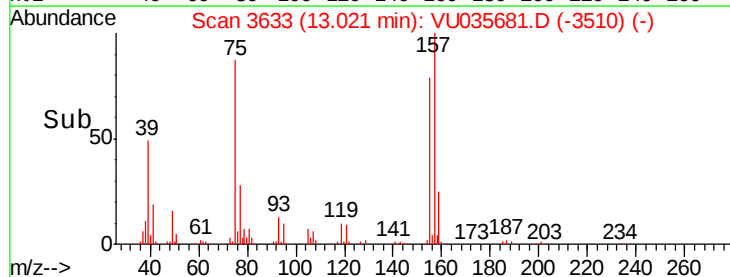
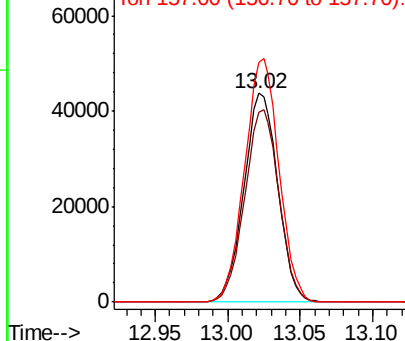


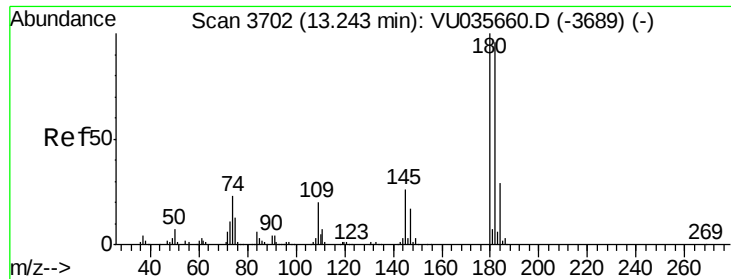
#66
 1,2-Dibromo-3-chloropropane
 Concen: 45.482 ug/L
 RT: 13.02 min Scan# 3633
 Delta R.T. -0.00 min
 Lab File: VU035681.D
 Acq: 07 Nov 2019 23:36

Tgt Ion: 75 Resp: 71258
 Ion Ratio Lower Upper
 75 100
 155 90.9 72.2 108.4
 157 114.9 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

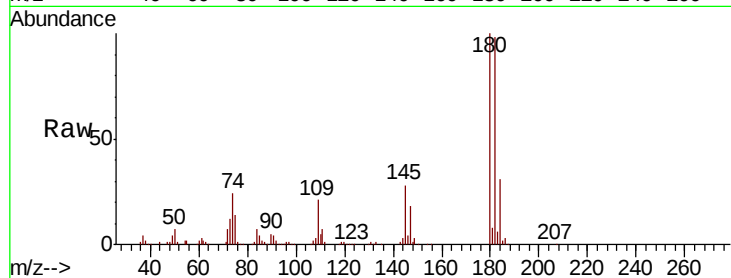




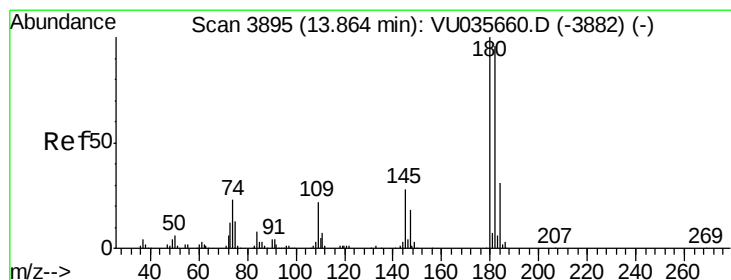
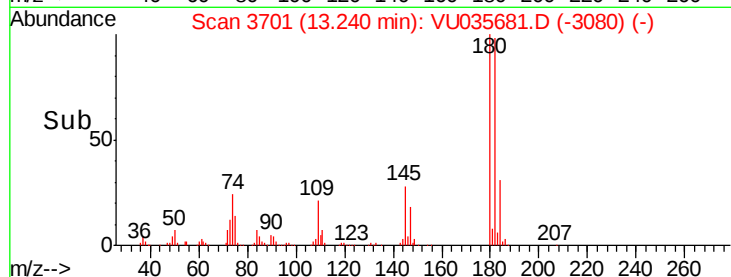
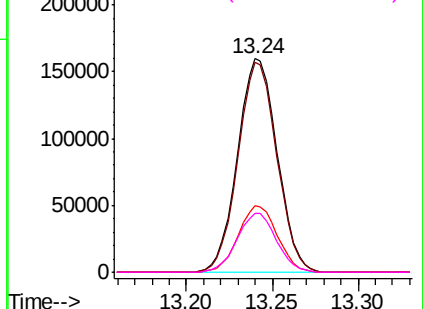
#67
 1,3,5-Trichlorobenzene
 Concen: 44.598 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. -0.00 min
 Lab File: VU035681.D
 Acq: 07 Nov 2019 23:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05040

Tot Ion:180	Resp:	255740
Ion Ratio	Lower	Upper
180	100	
182	96.6	77.0 115.4
184	30.7	24.6 36.8
145	27.5	21.7 32.5

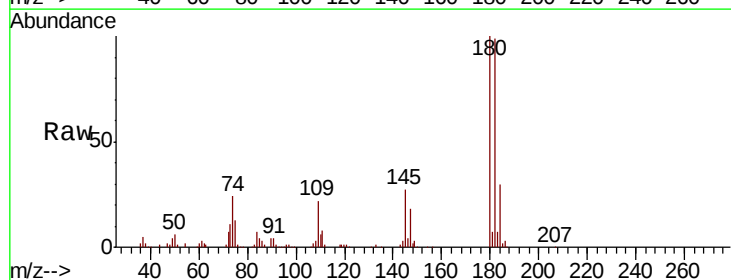


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

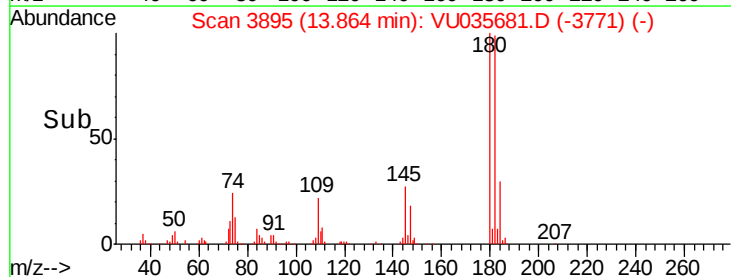
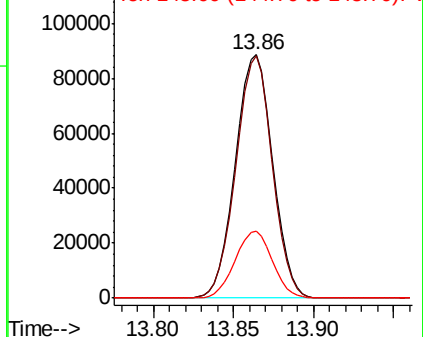


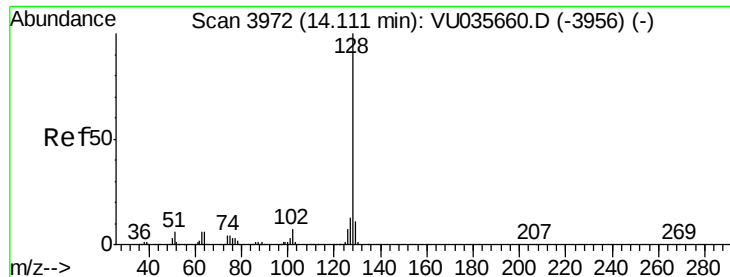
#68
 1,2,4-trichlorobenzene
 Concen: 36.647 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. -0.00 min
 Lab File: VU035681.D
 Acq: 07 Nov 2019 23:36

Tgt Ion:180	Resp:	140768
Ion Ratio	Lower	Upper
180	100	
182	96.7	76.6 115.0
145	27.3	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: 32.266 ug/L

RT: 14.11 min Scan# 3971

Delta R.T. -0.00 min

Lab File: VU035681.D

Acq: 07 Nov 2019 23:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05040

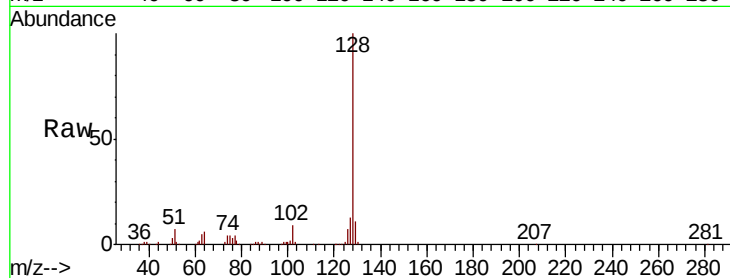
Tot Ion:128 Resp: 317899

Ion Ratio Lower Upper

128 100

127 13.1 10.7 16.1

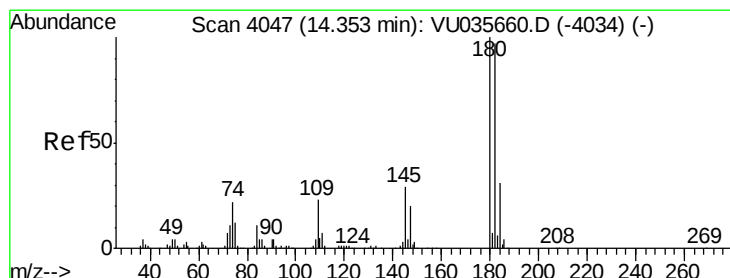
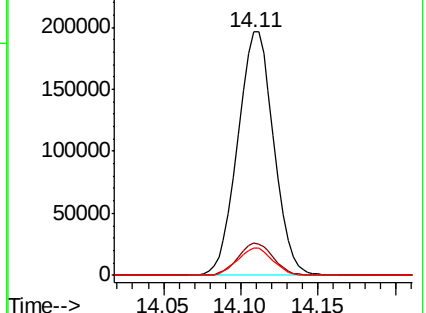
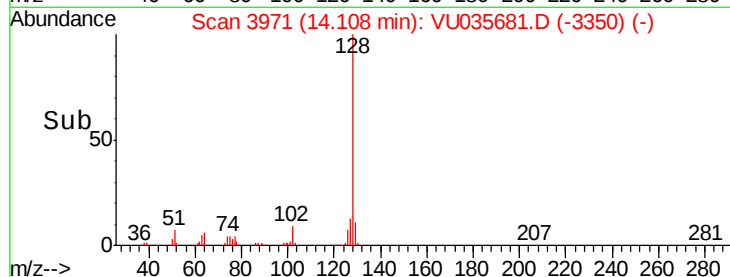
129 11.0 8.5 12.7



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: 37.303 ug/L

RT: 14.35 min Scan# 4047

Delta R.T. -0.00 min

Lab File: VU035681.D

Acq: 07 Nov 2019 23:36

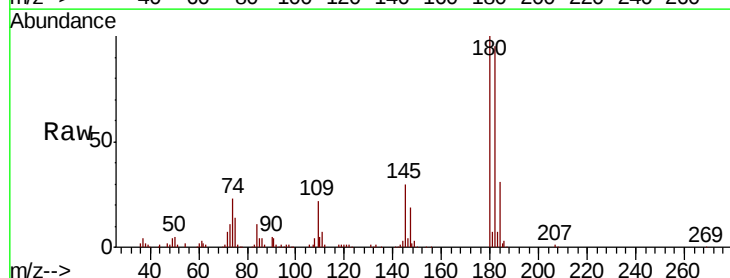
Tgt Ion:180 Resp: 154390

Ion Ratio Lower Upper

180 100

182 94.7 77.6 116.4

145 30.1 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

