

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV021020\
 Data File : VV014548.D
 Acq On : 10 Feb 2020 13:45
 Operator : SY/MD
 Sample : MDL04
 Misc : 5.0µ/5.0mL/100µL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Feb 11 04:46:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM020620W.M
 Quant Title : VOC Analysis
 QLast Update : Tue Feb 11 04:43:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	328697	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	307769	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	154843	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	71763	40.26	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	80.52%
7) Chloroethane-d5	1.59	69	53207	43.31	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	86.62%
11) 1,1-Dichloroethene-d2	2.13	63	90460	33.42	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	66.84%
21) 2-Butanone-d5	3.92	46	133186	96.79	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	96.79%
24) Chloroform-d	4.40	84	198357	48.83	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.66%
26) 1,2-Dichloroethane-d4	5.08	65	126187	50.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.78%
32) Benzene-d6	5.10	84	419491	49.22	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.44%
36) 1,2-Dichloropropane-d6	6.11	67	130058	49.77	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.54%
41) Toluene-d8	7.36	98	394234	50.24	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.48%
43) trans-1,3-Dichloropropene-	7.66	79	69255	49.42	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.84%
47) 2-Hexanone-d5	8.13	63	108034	97.17	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	97.17%
56) 1,1,2,2-Tetrachloroethane-	10.25	84	173232	51.05	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	102.10%
66) 1,2-Dichlorobenzene-d4	11.67	152	153134	51.57	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.14%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	6483	2.462	ug/L	92
3) Chloromethane	1.26	50	5816	2.182	ug/L	94
5) Vinyl chloride	1.33	62	4443	2.176	ug/L #	76
6) Bromomethane	1.54	94	1924	2.049	ug/L	79
8) Chloroethane	1.60	64	2019	1.990	ug/L	91
9) Trichlorofluoromethane	1.77	101	6412	2.331	ug/L	95
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	3905	2.956	ug/L #	77
12) 1,1-Dichloroethene	2.14	96	3494	2.766	ug/L #	1
13) Acetone	2.19	43	7086	6.151	ug/L	98
14) Carbon disulfide	2.32	76	13066	2.130	ug/L	98
15) Methyl Acetate	2.46	43	3984	1.798	ug/L	99
16) Methylene chloride	2.54	84	6393	2.665	ug/L	92
17) trans-1,2-Dichloroethene	2.79	96	4761	2.139	ug/L	95
18) Methyl tert-butyl Ether	2.80	73	16225	2.302	ug/L	99
19) 1,1-Dichloroethane	3.23	63	9205	2.313	ug/L	97
20) cis-1,2-Dichloroethene	3.97	96	5766	2.302	ug/L	100
22) 2-Butanone	4.03	43	5250	3.081	ug/L	99

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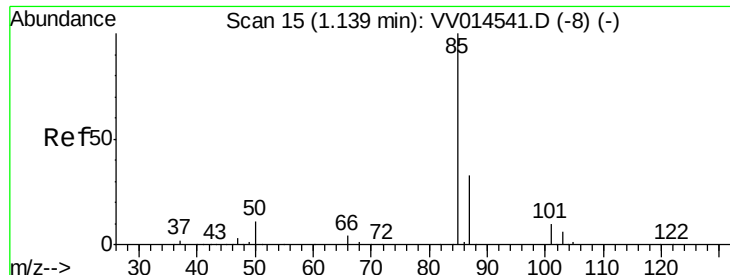
Instrument :
 MSVOA_V
 ClientSampleId :

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.30	128	2763	2.330	ug/L	95
25) Chloroform	4.42	83	12748	3.150	ug/L	94
27) 1,2-Dichloroethane	5.18	62	6920	2.295	ug/L	95
29) Cyclohexane	4.73	56	8378	2.214	ug/L	97
30) 1,1,1-Trichloroethane	4.66	97	8067	2.297	ug/L	98
31) Carbon tetrachloride	4.87	117	3914	1.263	ug/L #	20
33) Benzene	5.15	78	19659	2.173	ug/L	100
34) Trichloroethene	5.96	95	5914	2.466	ug/L	90
35) Methylcyclohexane	6.18	83	9008	2.298	ug/L	99
37) 1,2-Dichloropropane	6.22	63	5665	2.458	ug/L #	92
38) Bromodichloromethane	6.55	83	6884	2.226	ug/L	86
39) cis-1,3-Dichloropropene	7.07	75	8341	2.170	ug/L	94
40) 4-Methyl-2-pentanone	7.27	43	12187	4.092	ug/L	95
42) Toluene	7.43	91	22985	2.369	ug/L	95
44) trans-1,3-Dichloropropene	7.69	75	7289	2.115	ug/L	98
45) 1,1,2-Trichloroethane	7.88	97	5089	2.302	ug/L	94
46) Tetrachloroethene	8.02	164	3899	2.131	ug/L #	79
48) 2-Hexanone	8.18	43	10429	4.549	ug/L	94
49) Dibromochloromethane	8.29	129	5688	2.279	ug/L	95
50) 1,2-Dibromoethane	8.40	107	5550	2.318	ug/L #	85
51) Chlorobenzene	8.92	112	15178	2.395	ug/L	99
52) Ethylbenzene	9.05	91	24807	2.280	ug/L	92
53) m,p-Xylene	9.18	106	9609	2.293	ug/L	92
54) o-Xylene	9.58	106	9255	2.307	ug/L	99
55) Styrene	9.60	104	15531	2.266	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.28	83	8763	2.529	ug/L #	97
59) Bromoform	9.77	173	3993	2.312	ug/L #	97
60) Isopropylbenzene	9.97	105	23811	2.274	ug/L	100
61) 1,2,3-Trichloropropane	10.32	75	6602	2.408	ug/L	97
62) 1,3,5-Trimethylbenzene	10.58	105	20023	2.234	ug/L	100
63) 1,2,4-Trimethylbenzene	10.96	105	18736	2.120	ug/L	99
64) 1,3-Dichlorobenzene	11.22	146	12067	2.443	ug/L	98
65) 1,4-Dichlorobenzene	11.31	146	12451	2.449	ug/L	98
67) 1,2-Dichlorobenzene	11.68	146	11569	2.416	ug/L	93
68) 1,2-Dibromo-3-chloropropan	12.47	75	1692	2.203	ug/L	95
69) 1,3,5-Trichlorobenzene	12.69	180	7795	2.240	ug/L	96
70) 1,2,4-trichlorobenzene	13.31	180	6640	2.078	ug/L	98
71) Naphthalene	13.55	128	21578	2.056	ug/L	97
72) 1,2,3-Trichlorobenzene	13.79	180	6416	2.067	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 2.462 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV014548.D

Acq: 10 Feb 2020 13:45

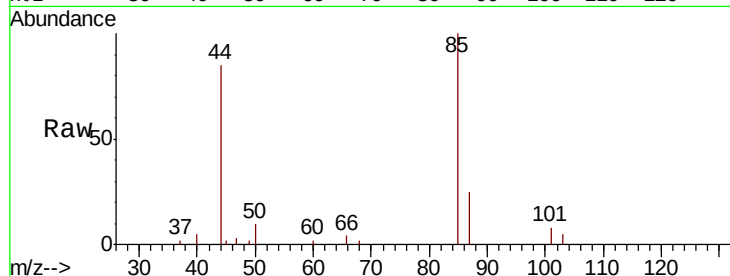
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 85 Resp: 6483

Ion Ratio Lower Upper

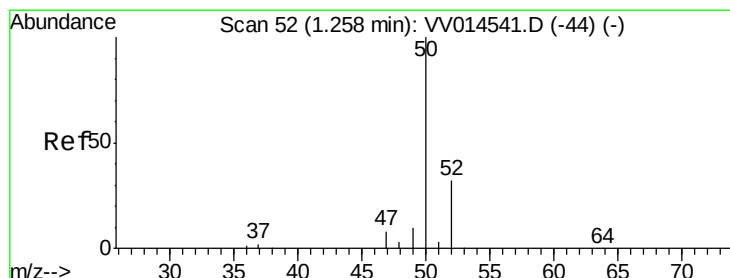
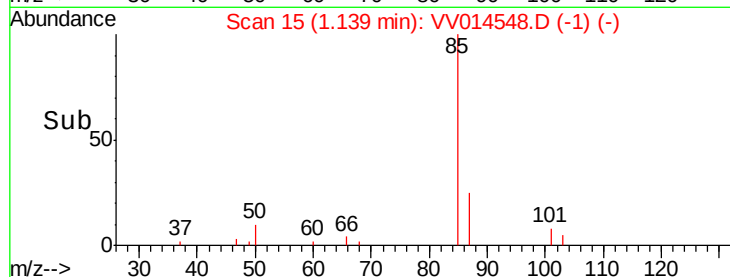
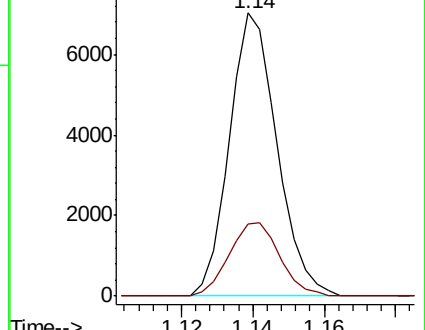
85 100

87 27.6 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VV014548.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV014548.D (-8) (-)



#3

Chloromethane

Concen: 2.182 ug/L

RT: 1.26 min Scan# 52

Delta R.T. 0.00 min

Lab File: VV014548.D

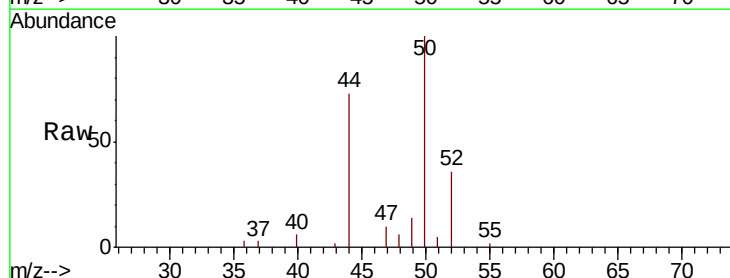
Acq: 10 Feb 2020 13:45

Tgt Ion: 50 Resp: 5816

Ion Ratio Lower Upper

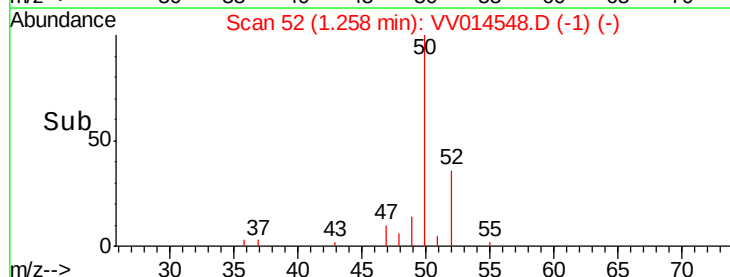
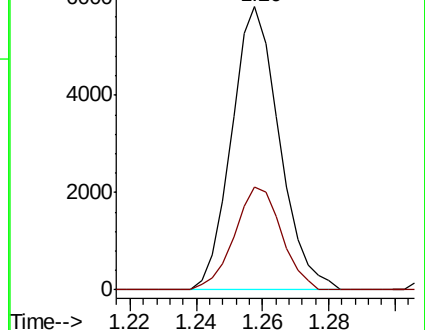
50 100

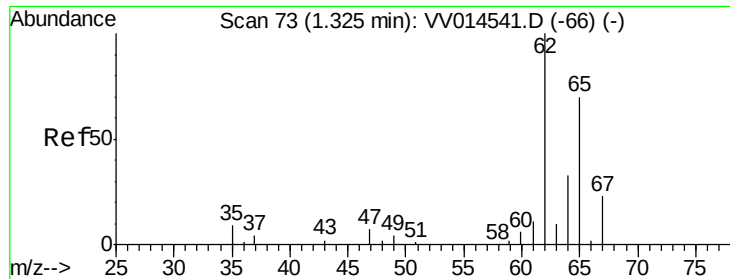
52 36.2 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VV014548.D (-44) (-)

Ion 52.00 (51.70 to 52.70): VV014548.D (-44) (-)





#5

Vinyl chloride

Concen: 2.176 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV014548.D

Acq: 10 Feb 2020 13:45

Instrument :

MSVOA_V

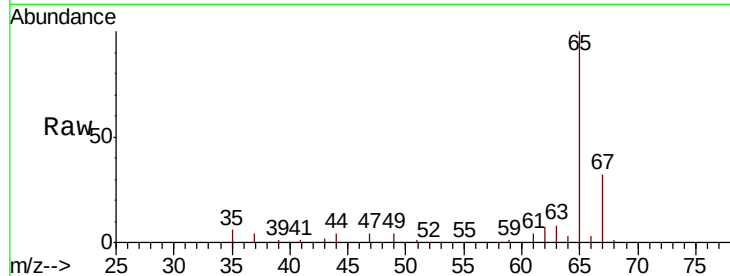
ClientSampleId :

Tot Ion: 62 Resp: 4443

Ion Ratio Lower Upper

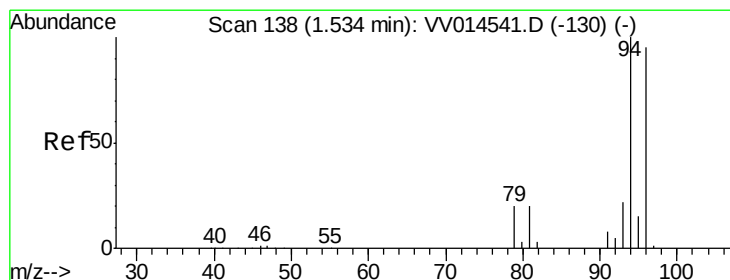
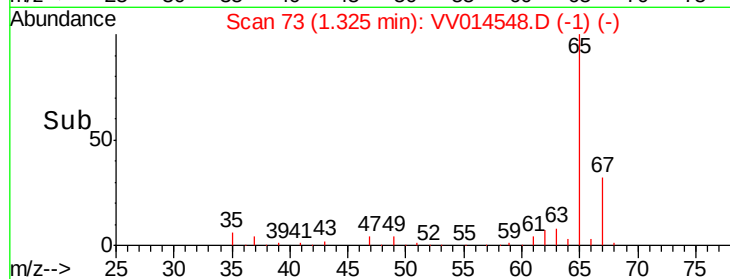
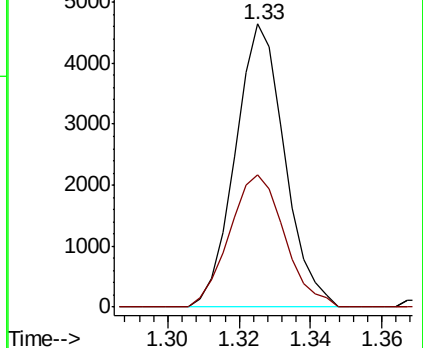
62 100

64 46.6 23.1 42.9#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 2.049 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV014548.D

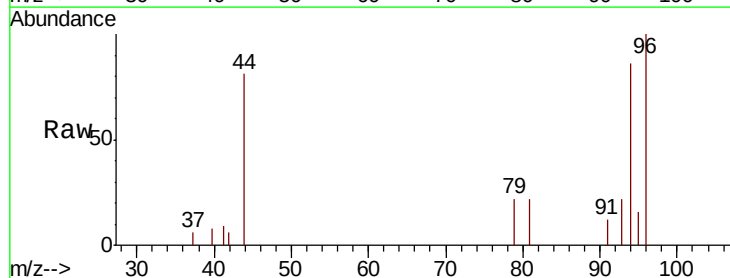
Acq: 10 Feb 2020 13:45

Tgt Ion: 94 Resp: 1924

Ion Ratio Lower Upper

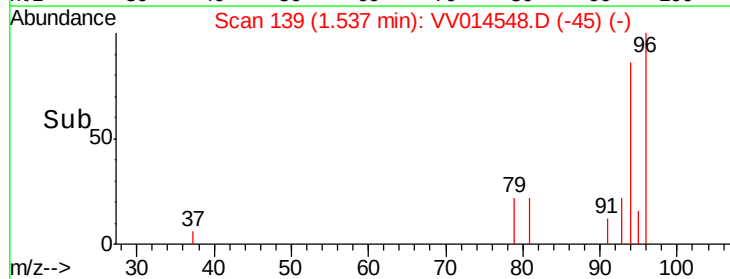
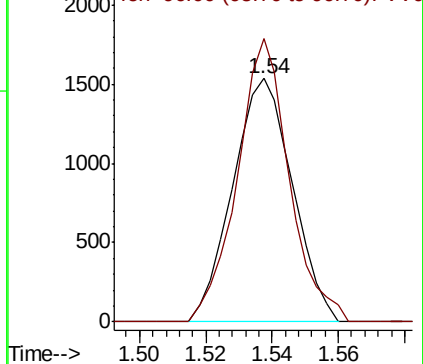
94 100

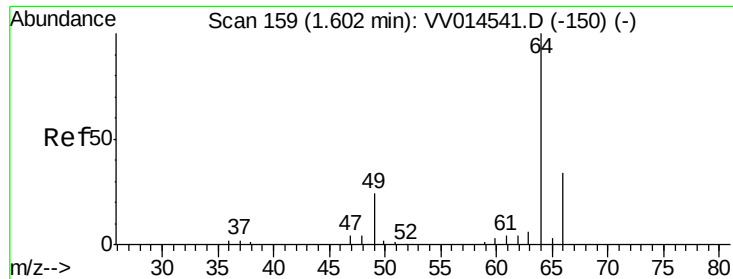
96 116.3 67.3 124.9



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 1.990 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.00 min

Lab File: VV014548.D

Acq: 10 Feb 2020 13:45

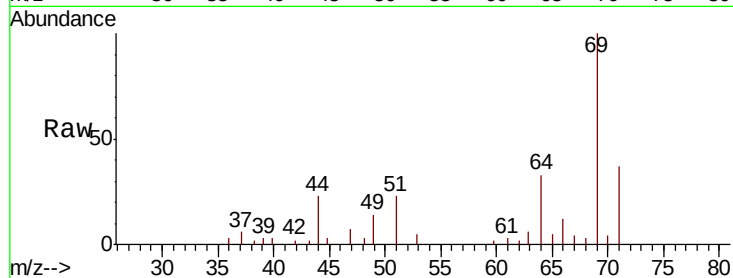
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 64 Resp: 2019

Ion Ratio Lower Upper

64 100

66 37.1 22.4 41.6



Abundance Ion 64.00 (63.70 to 64.70): VV014541.D (-150) (-)

Ion 66.00 (65.70 to 66.70): VV014541.D (-150) (-)

1.60

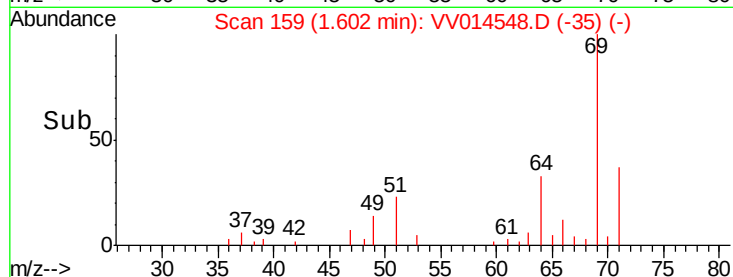
1500

1000

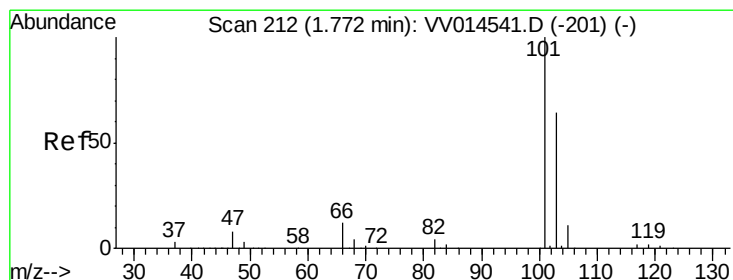
500

0

1.56 1.58 1.60 1.62 1.64



Time-->



#9

Trichlorofluoromethane

Concen: 2.331 ug/L

RT: 1.77 min Scan# 212

Delta R.T. 0.00 min

Lab File: VV014548.D

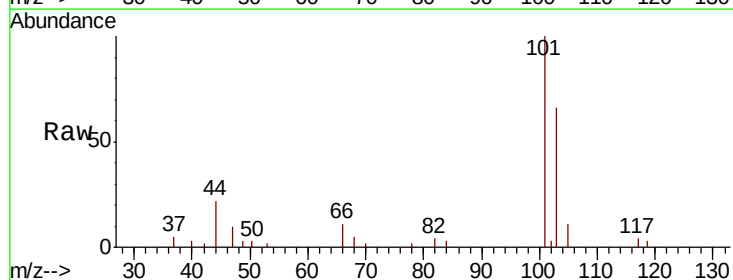
Acq: 10 Feb 2020 13:45

Tgt Ion: 101 Resp: 6412

Ion Ratio Lower Upper

101 100

103 68.4 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): VV014541.D (-201) (-)

Ion 103.00 (102.70 to 103.70): VV014541.D (-201) (-)

1.77

6000

5000

4000

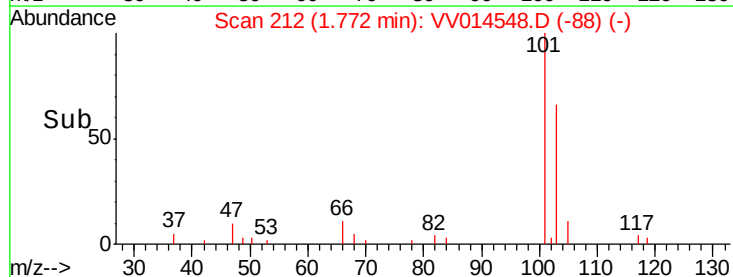
3000

2000

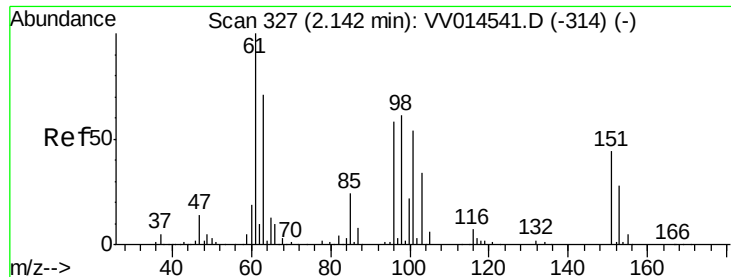
1000

0

1.74 1.76 1.78 1.80



Time-->



#10

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

Concen: 2.956 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV014548.D

Acq: 10 Feb 2020 13:45

Instrument :

MSVOA_V

ClientSampleId :

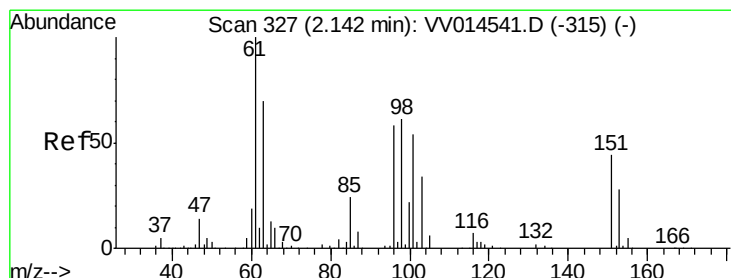
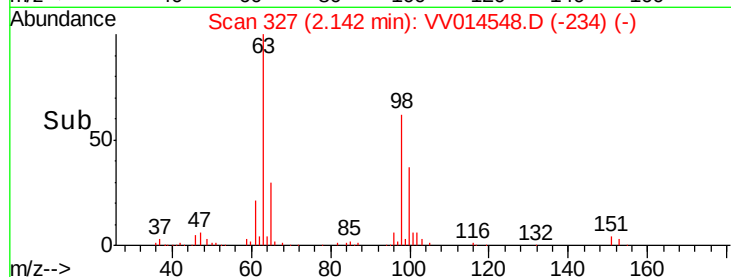
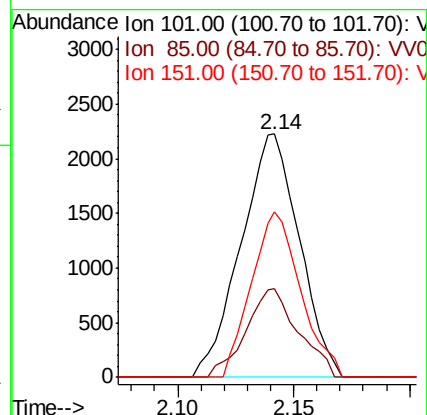
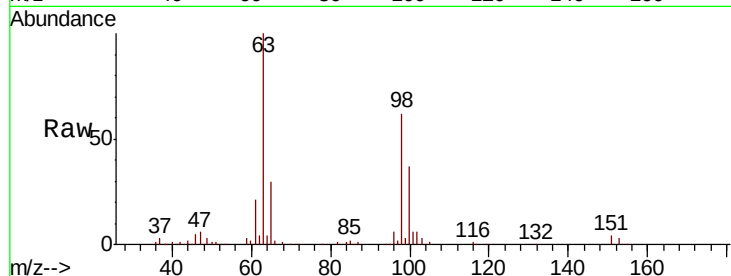
Tot Ion:101 Resp: 3905

Ion Ratio Lower Upper

101 100

85 32.6 35.0 52.6#

151 57.1 64.4 96.6#



#12

1,1-Dichloroethene

Concen: 2.766 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV014548.D

Acq: 10 Feb 2020 13:45

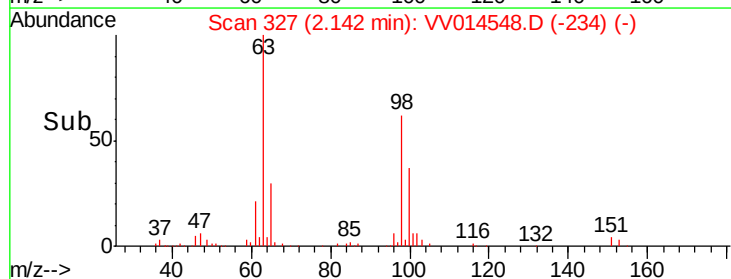
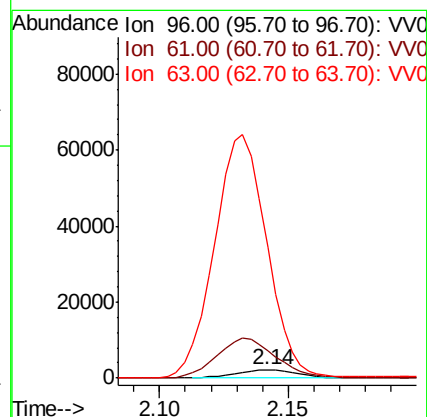
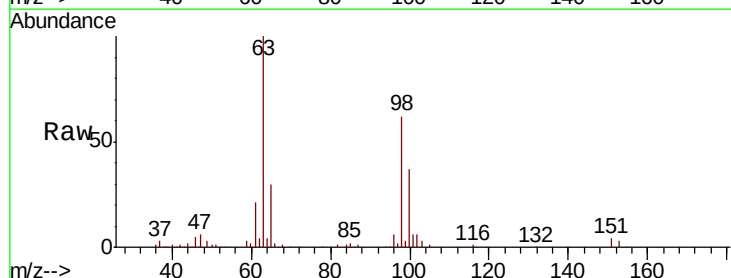
Tgt Ion: 96 Resp: 3494

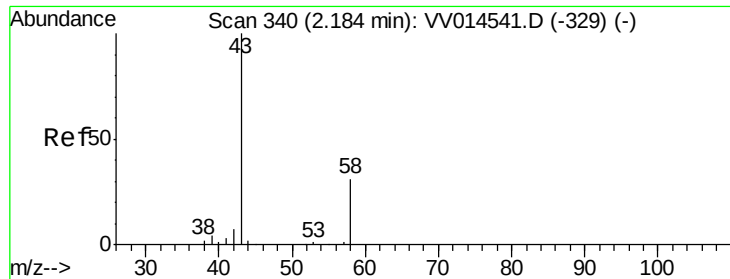
Ion Ratio Lower Upper

96 100

61 335.4 125.0 232.2#

63 1592.2 101.6 188.6#





#13

Acetone

Concen: 6.151 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

Lab File: VV014548.D

Acq: 10 Feb 2020 13:45

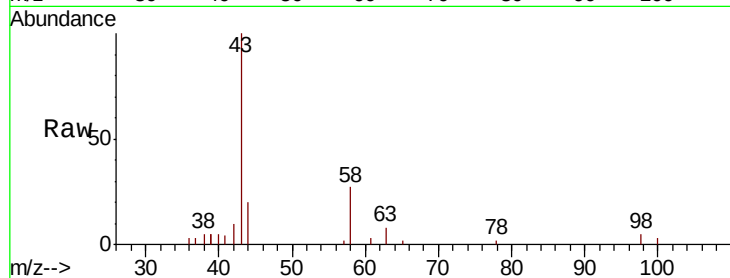
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 7086

Ion Ratio Lower Upper

43 100

58 29.7 0.0 61.8



Abundance Ion 43.00 (42.70 to 43.70): VV014541.D (-329) (-)

Ion 58.00 (57.70 to 58.70): VV014541.D (-329) (-)

2.19

5000

4000

3000

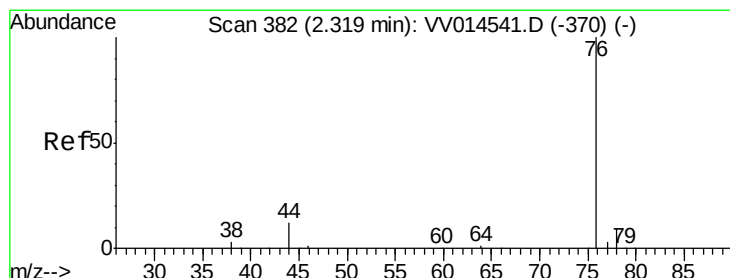
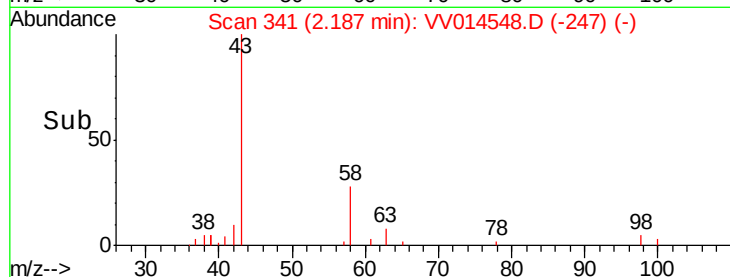
2000

1000

0

Time-->

2.15 2.20



#14

Carbon disulfide

Concen: 2.130 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VV014548.D

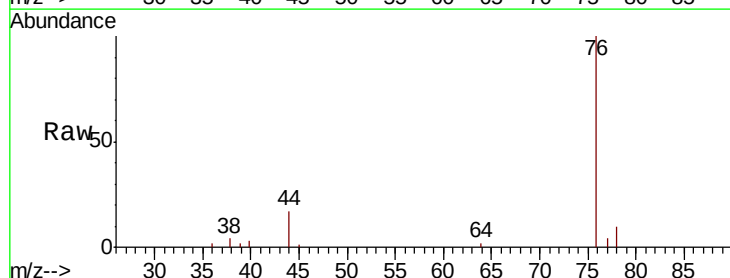
Acq: 10 Feb 2020 13:45

Tgt Ion: 76 Resp: 13066

Ion Ratio Lower Upper

76 100

78 9.9 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VV014541.D (-370) (-)

Ion 78.00 (77.70 to 78.70): VV014541.D (-370) (-)

2.32

10000

8000

6000

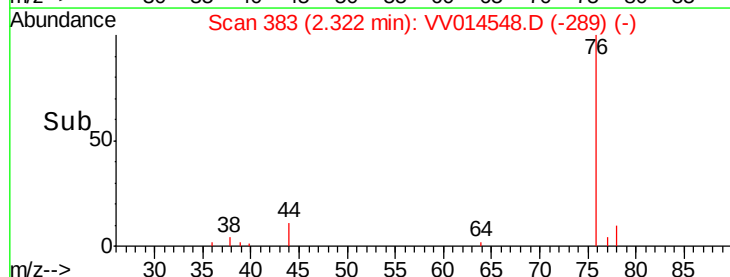
4000

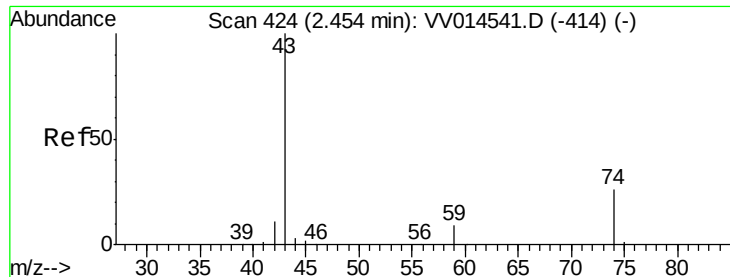
2000

0

Time-->

2.25 2.30 2.35 2.40

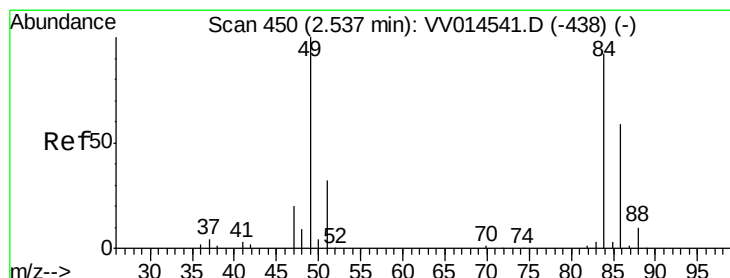
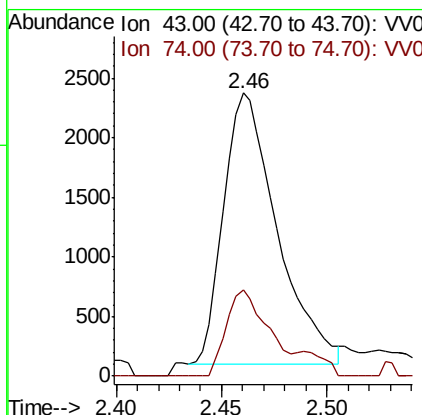
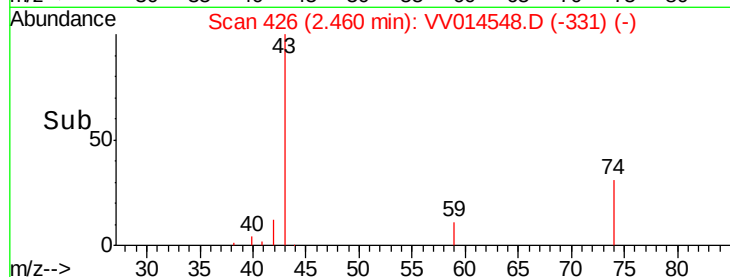
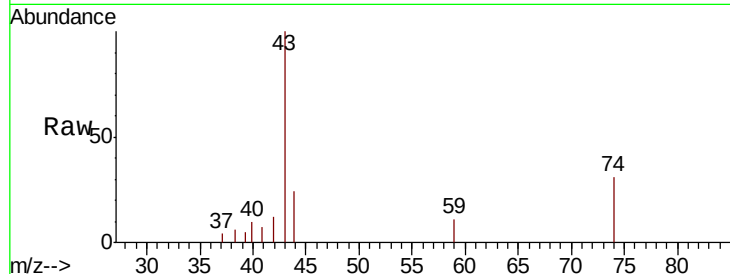




#15
Methvl Acetate
Concen: 1.798 ug/L
RT: 2.46 min Scan# 426
Delta R.T. 0.01 min
Lab File: VV014548.D
Acq: 10 Feb 2020 13:45

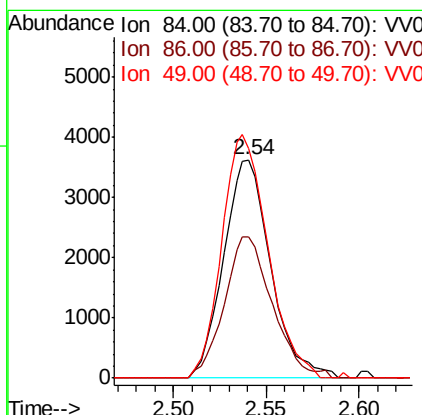
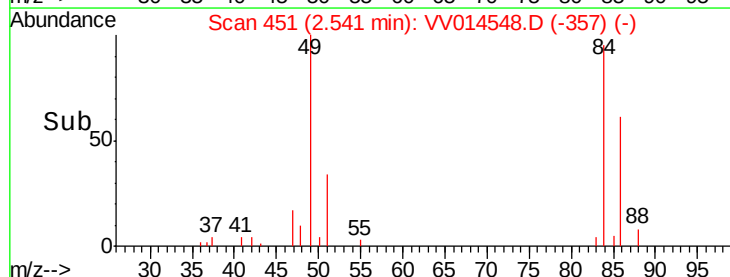
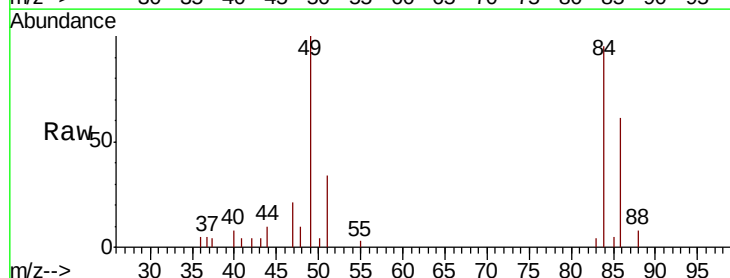
Instrument :
MSVOA_V
ClientSampleId :

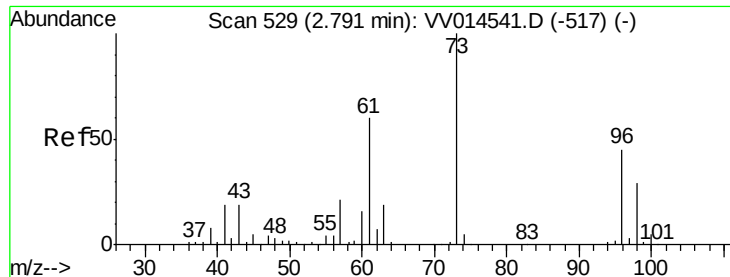
Tot Ion: 43 Resp: 3984
Ion Ratio Lower Upper
43 100
74 24.8 19.4 29.0



#16
Methylene chloride
Concen: 2.665 ug/L
RT: 2.54 min Scan# 451
Delta R.T. 0.00 min
Lab File: VV014548.D
Acq: 10 Feb 2020 13:45

Tgt Ion: 84 Resp: 6393
Ion Ratio Lower Upper
84 100
86 64.8 44.6 82.8
49 105.5 83.2 154.4





#17

trans-1,2-Dichloroethene

Concen: 2.139 ug/L

RT: 2.79 min Scan# 530

Delta R.T. 0.00 min

Lab File: VV014548.D

Acq: 10 Feb 2020 13:45

Instrument :

MSVOA_V

ClientSampled :

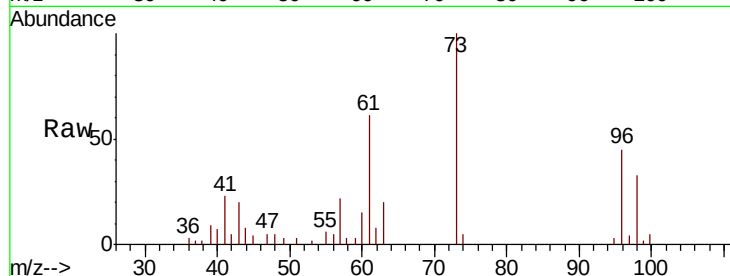
Tot Ion: 96 Resp: 4761

Ion Ratio Lower Upper

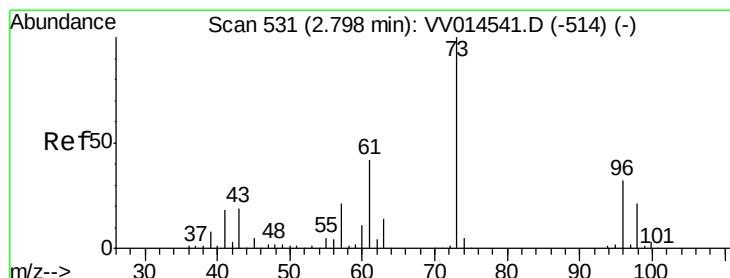
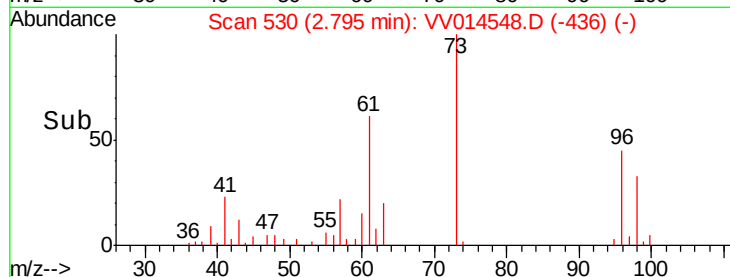
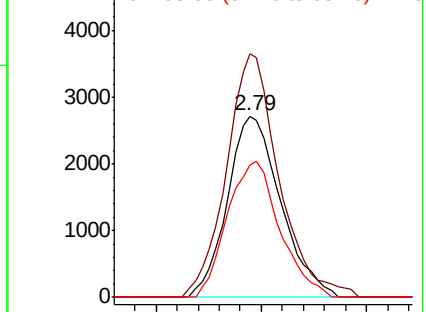
96 100

61 134.5 95.8 178.0

98 72.8 45.1 83.7



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



#18

Methyl tert-butyl Ether

Concen: 2.302 ug/L

RT: 2.80 min Scan# 533

Delta R.T. 0.01 min

Lab File: VV014548.D

Acq: 10 Feb 2020 13:45

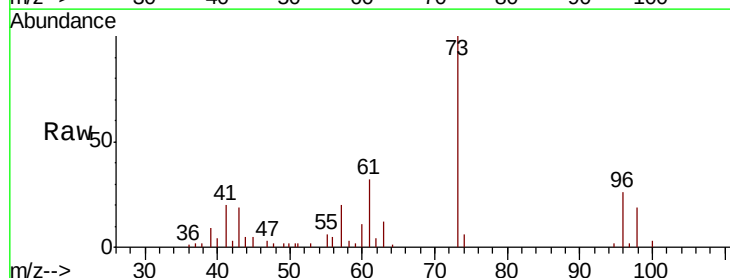
Tgt Ion: 73 Resp: 16225

Ion Ratio Lower Upper

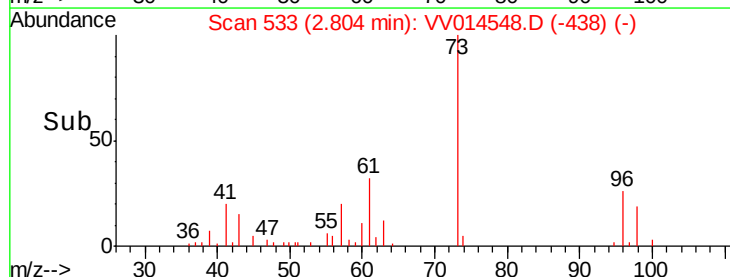
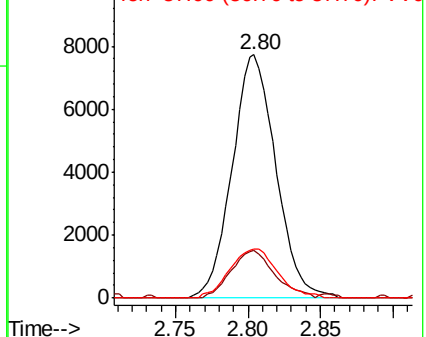
73 100

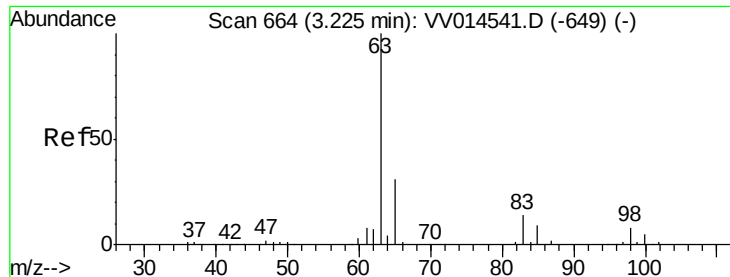
43 19.5 14.9 22.3

57 22.2 17.5 26.3



Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0





#19

1,1-Dichloroethane

Concen: 2.313 ug/L

RT: 3.23 min Scan# 665

Delta R.T. 0.00 min

Lab File: VV014548.D

Acq: 10 Feb 2020 13:45

Instrument :

MSVOA_V

ClientSampleId :

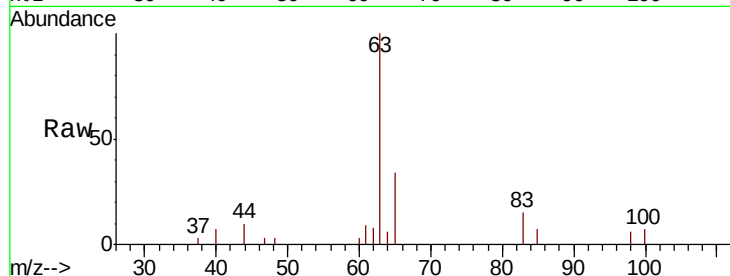
Tot Ion: 63 Resp: 9205

Ion Ratio Lower Upper

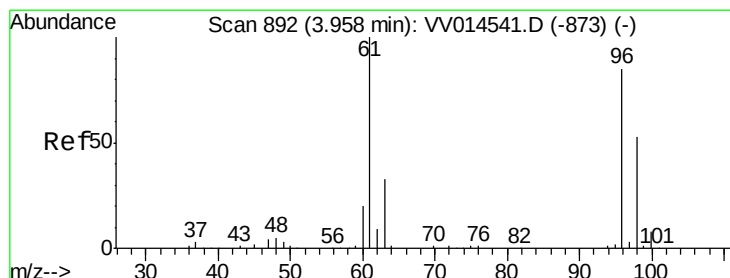
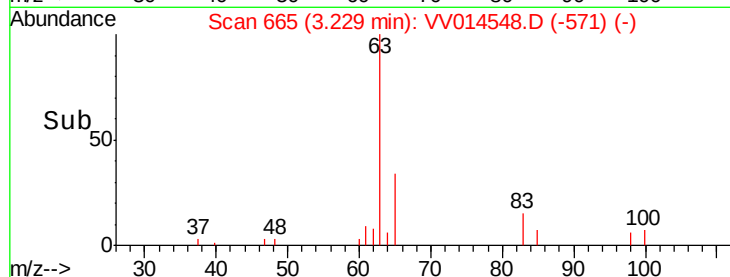
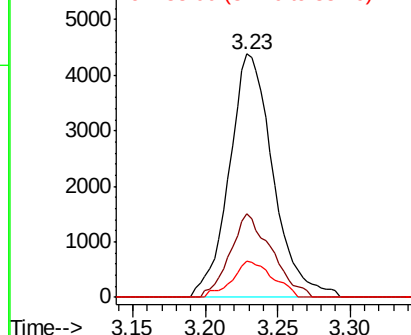
63 100

65 34.3 22.5 41.7

83 14.8 9.7 18.1



Abundance Ion 63.00 (62.70 to 63.70): VV0
Ion 65.00 (64.70 to 65.70): VV0
Ion 83.00 (82.70 to 83.70): VV0



#20

cis-1,2-Dichloroethene

Concen: 2.302 ug/L

RT: 3.97 min Scan# 895

Delta R.T. 0.01 min

Lab File: VV014548.D

Acq: 10 Feb 2020 13:45

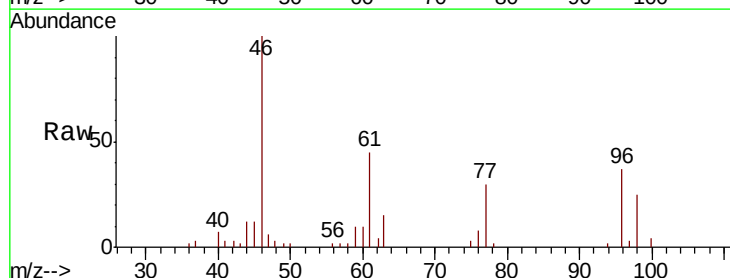
Tgt Ion: 96 Resp: 5766

Ion Ratio Lower Upper

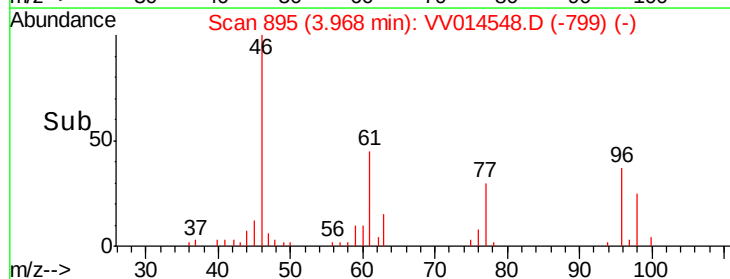
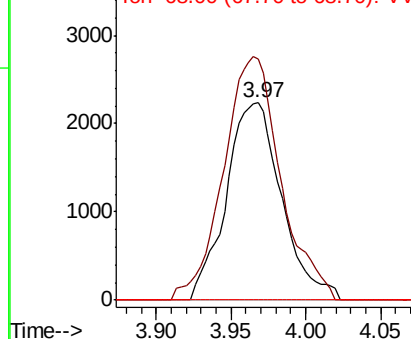
96 100

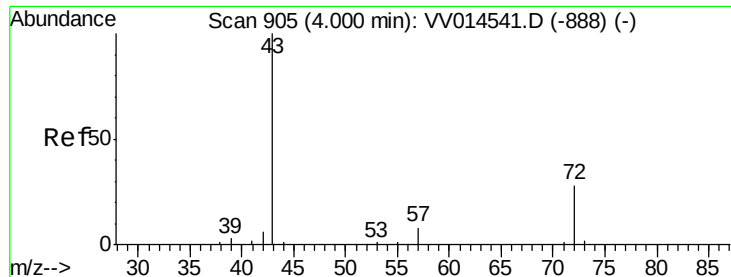
61 122.2 85.2 158.2

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 3.081 ug/L

RT: 4.03 min Scan# 914

Delta R.T. 0.03 min

Lab File: VV014548.D

Acq: 10 Feb 2020 13:45

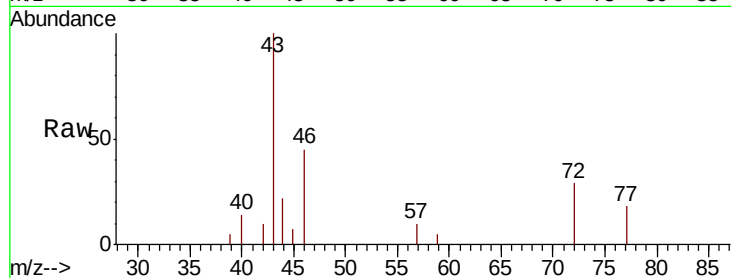
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 5250

Ion Ratio Lower Upper

43 100

72 25.8 12.7 38.1

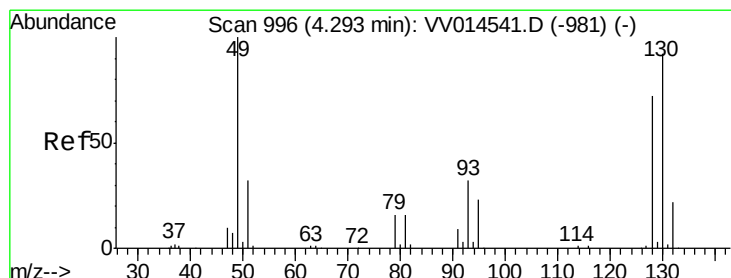
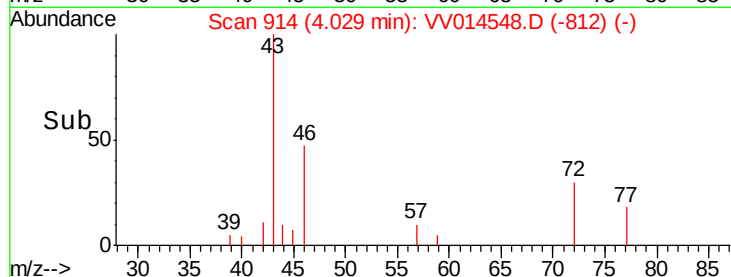


Abundance Ion 43.00 (42.70 to 43.70): VV014541.D (-888) (-)

Ion 72.00 (71.70 to 72.70): VV014541.D (-888) (-)

Time-->

4.03



#23

Bromochloromethane

Concen: 2.330 ug/L

RT: 4.30 min Scan# 999

Delta R.T. 0.01 min

Lab File: VV014548.D

Acq: 10 Feb 2020 13:45

Tgt Ion: 128 Resp: 2763

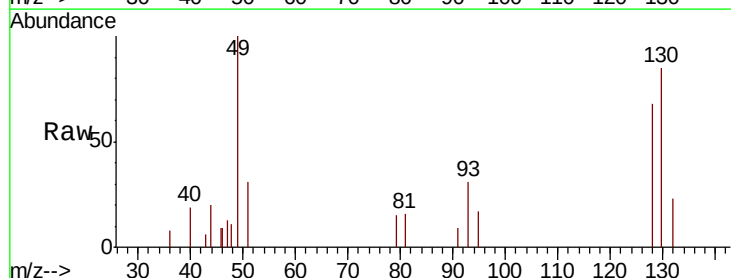
Ion Ratio Lower Upper

128 100

49 146.9 110.1 204.5

130 124.2 88.5 164.4

51 45.6 39.4 59.0



Abundance Ion 128.00 (127.70 to 128.70): VV014541.D (-981) (-)

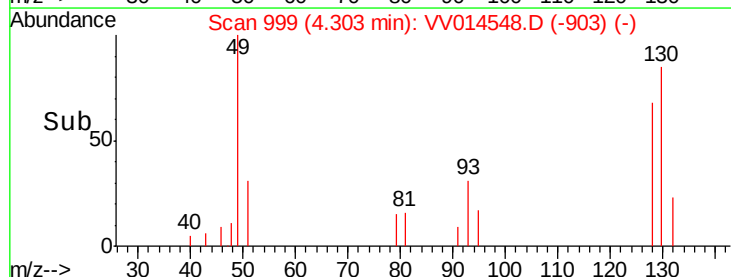
Ion 49.00 (48.70 to 49.70): VV014541.D (-981) (-)

Ion 130.00 (129.70 to 130.70): VV014541.D (-981) (-)

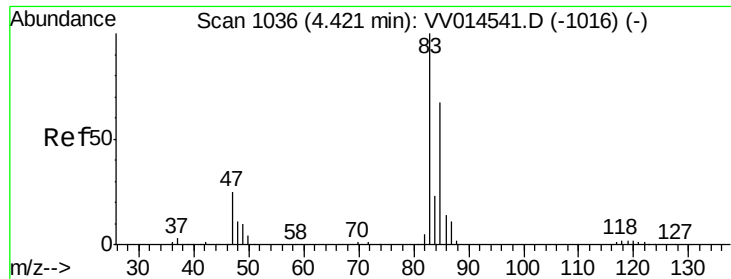
Ion 51.00 (50.70 to 51.70): VV014541.D (-981) (-)

Time-->

4.30



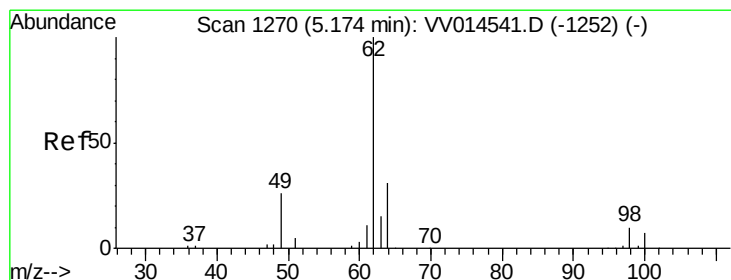
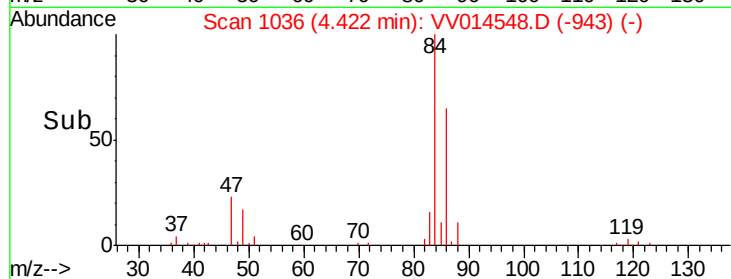
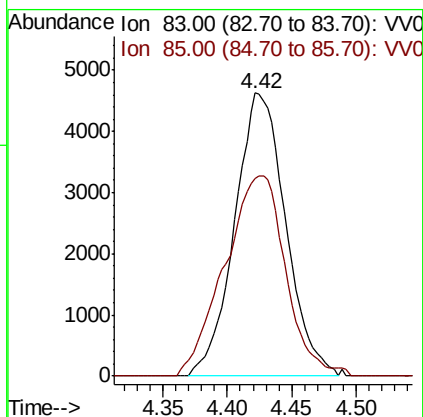
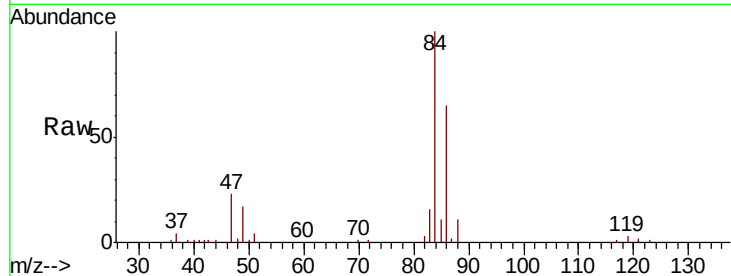
Time-->



#25
Chloroform
Concen: 3.150 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. 0.00 min
Lab File: VV014548.D
Acq: 10 Feb 2020 13:45

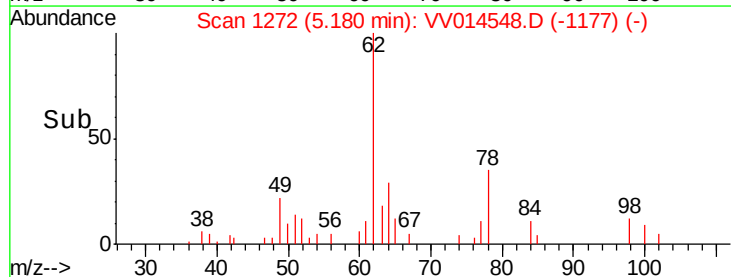
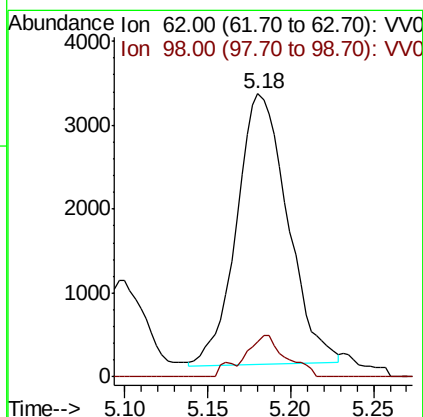
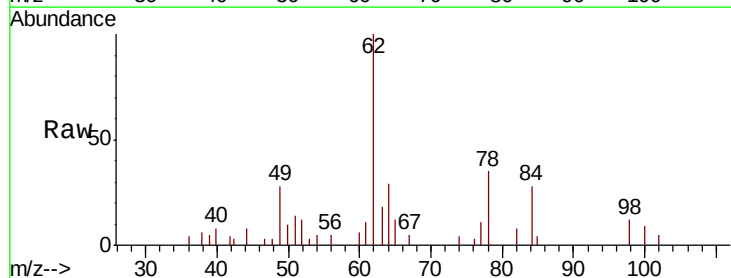
Instrument :
MSVOA_V
ClientSampled :

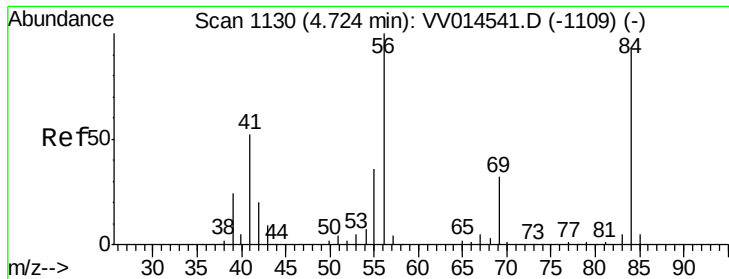
Tot Ion: 83 Resp: 12748
Ion Ratio Lower Upper
83 100
85 70.0 45.8 85.0



#27
1,2-Dichloroethane
Concen: 2.295 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. 0.01 min
Lab File: VV014548.D
Acq: 10 Feb 2020 13:45

Tgt Ion: 62 Resp: 6920
Ion Ratio Lower Upper
62 100
98 12.3 8.2 12.4

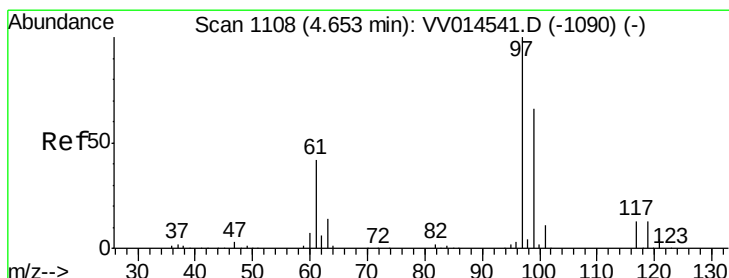
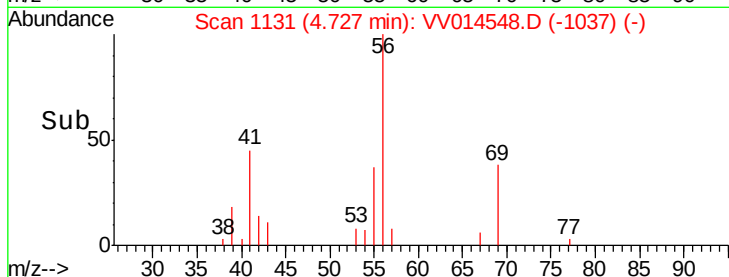
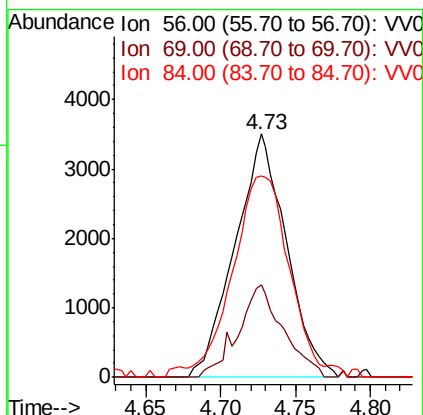
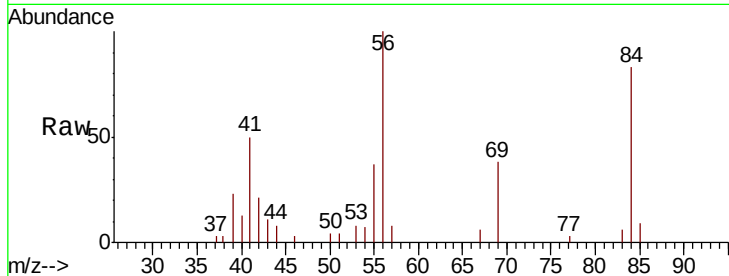




#29
Cyclohexane
Concen: 2.214 ug/L
RT: 4.73 min Scan# 1131
Delta R.T. 0.00 min
Lab File: VV014548.D
Acq: 10 Feb 2020 13:45

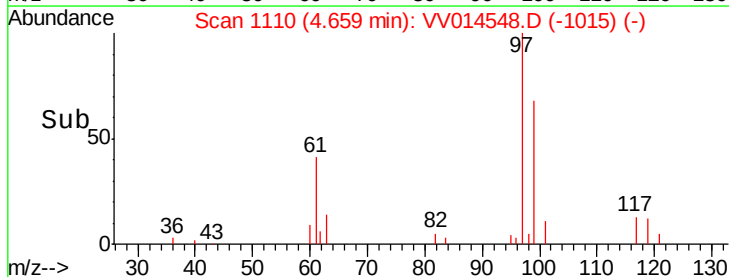
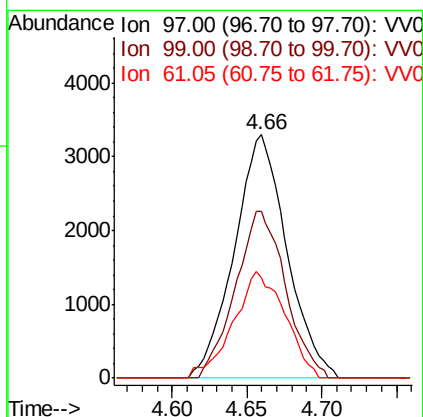
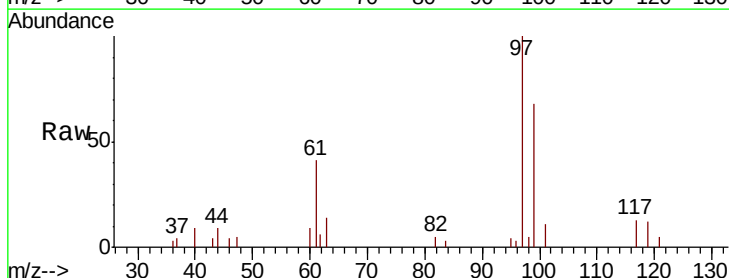
Instrument :
MSVOA_V
ClientSampleId :

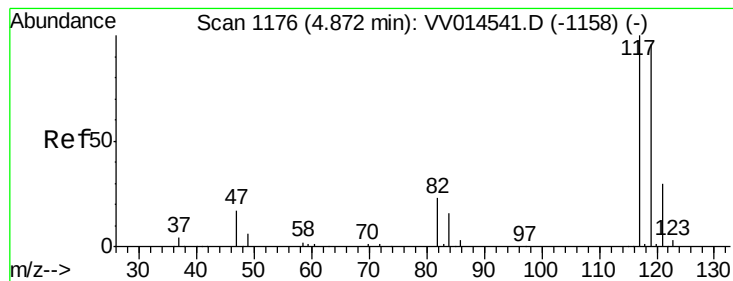
Tot Ion: 56 Resp: 8378
Ion Ratio Lower Upper
56 100
69 28.9 25.2 37.8
84 89.8 69.8 104.8



#30
1,1,1-Trichloroethane
Concen: 2.297 ug/L
RT: 4.66 min Scan# 1110
Delta R.T. 0.01 min
Lab File: VV014548.D
Acq: 10 Feb 2020 13:45

Tgt Ion: 97 Resp: 8067
Ion Ratio Lower Upper
97 100
99 65.3 50.6 76.0
61 41.7 33.0 49.4





#31

Carbon tetrachloride

Concen: 1.263 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VV014548.D

Acq: 10 Feb 2020 13:45

Instrument :

MSVOA_V

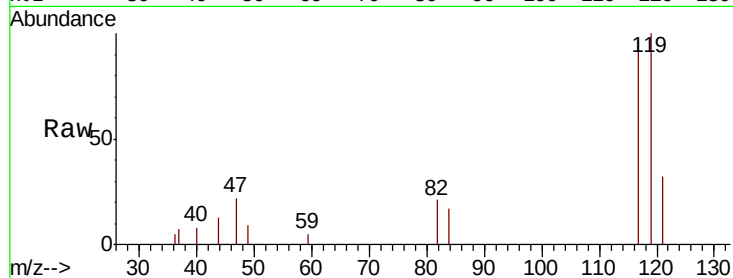
ClientSampled :

Tot Ion:117 Resp: 3914

Ion Ratio Lower Upper

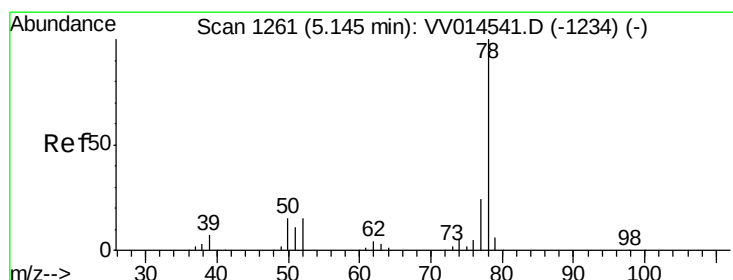
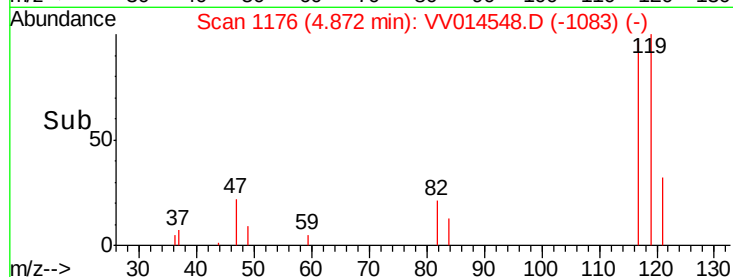
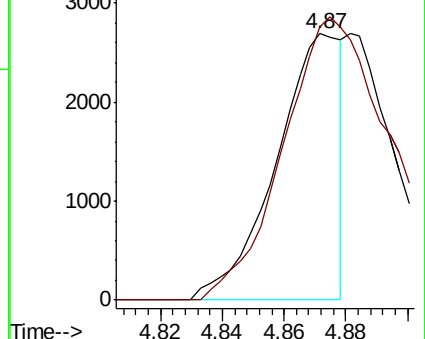
117 100

119 173.8 76.7 115.1#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 2.173 ug/L

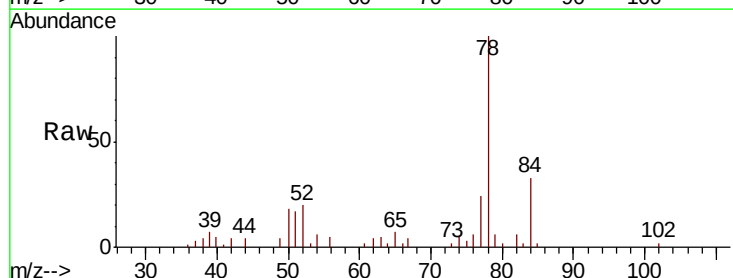
RT: 5.15 min Scan# 1262

Delta R.T. 0.00 min

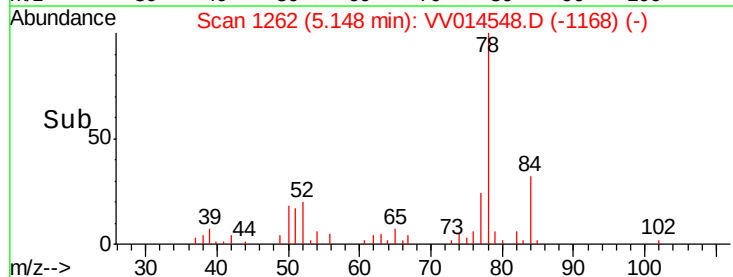
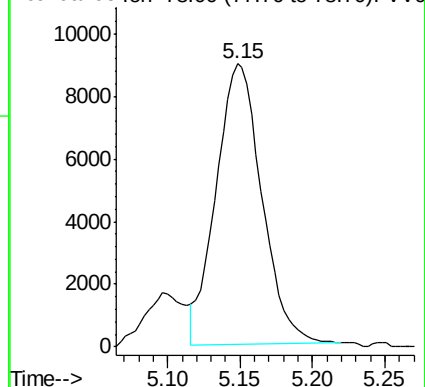
Lab File: VV014548.D

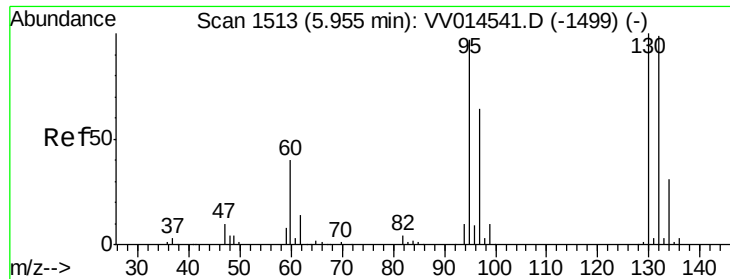
Acq: 10 Feb 2020 13:45

Tgt Ion: 78 Resp: 19659



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 2.466 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV014548.D

Acq: 10 Feb 2020 13:45

Instrument :

MSVOA_V

ClientSampleId :

Tot Ion: 95 Resp: 5914

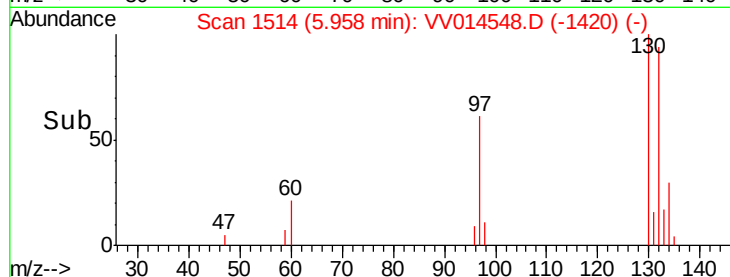
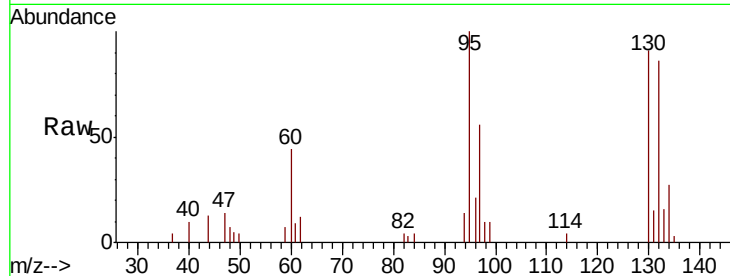
Ion Ratio Lower Upper

95 100

97 55.6 45.1 83.7

132 86.2 67.7 125.7

130 91.4 70.5 130.9

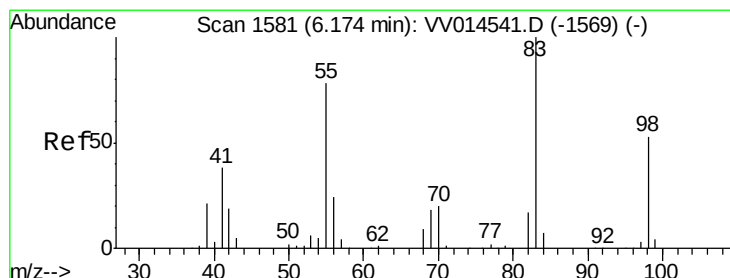
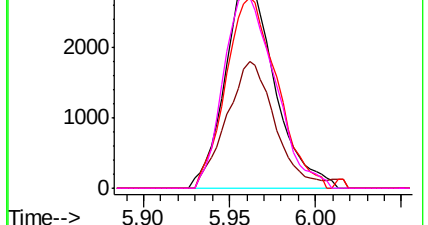


Abundance Ion 95.00 (94.70 to 95.70): VV014548.D (-1420) (-)

Ion 97.00 (96.70 to 97.70): VV014548.D (-1420) (-)

Ion 132.00 (131.70 to 132.70): VV014548.D (-1420) (-)

Ion 130.00 (129.70 to 130.70): VV014548.D (-1420) (-)



#35

Methylcyclohexane

Concen: 2.298 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. 0.00 min

Lab File: VV014548.D

Acq: 10 Feb 2020 13:45

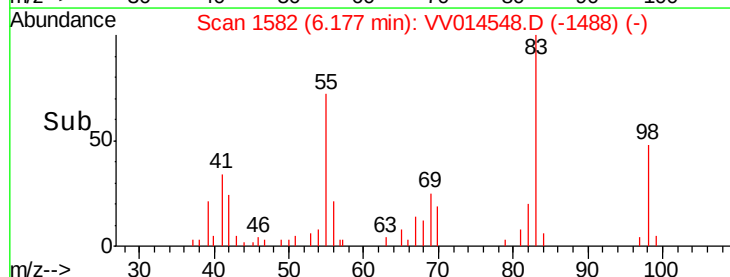
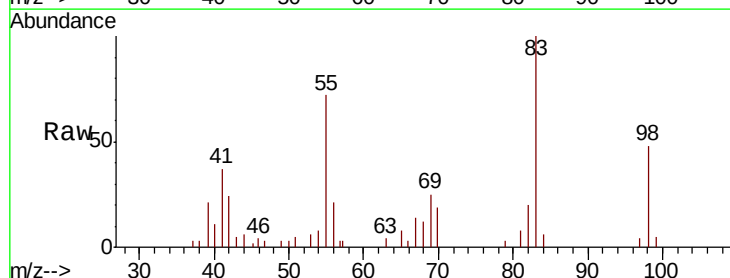
Tgt Ion: 83 Resp: 9008

Ion Ratio Lower Upper

83 100

55 75.7 60.7 91.1

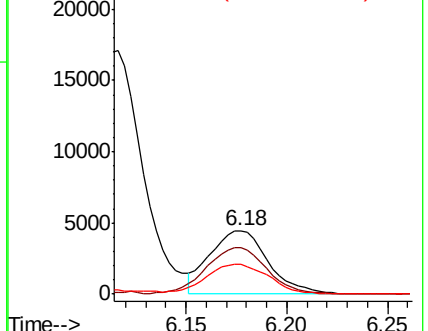
98 50.2 39.4 59.0

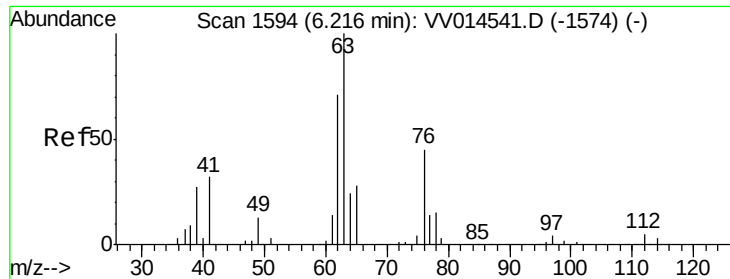


Abundance Ion 83.00 (82.70 to 83.70): VV014548.D (-1488) (-)

Ion 55.00 (54.70 to 55.70): VV014548.D (-1488) (-)

Ion 98.00 (97.70 to 98.70): VV014548.D (-1488) (-)

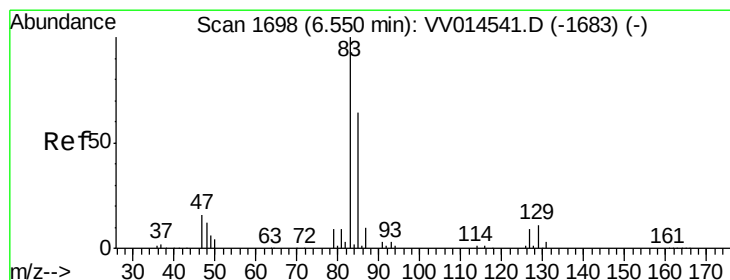
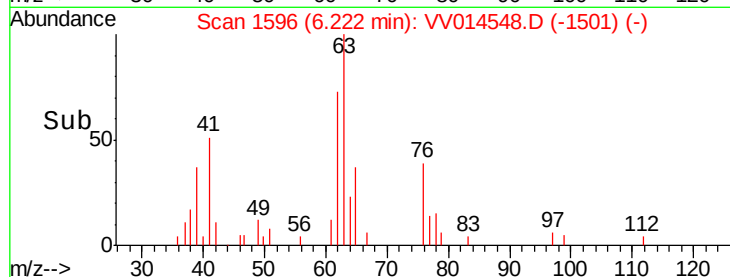
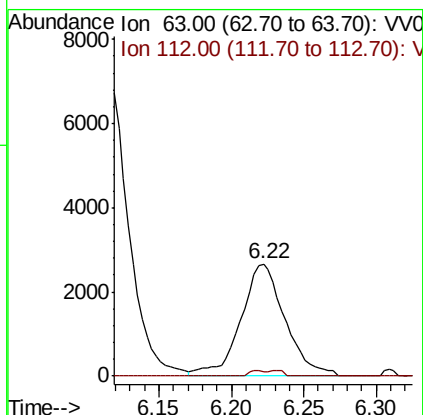
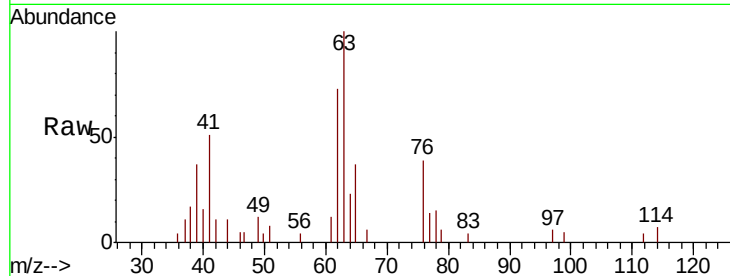




#37
 1,2-Dichloropropane
 Concen: 2.458 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. 0.01 min
 Lab File: VV014548.D
 Acq: 10 Feb 2020 13:45

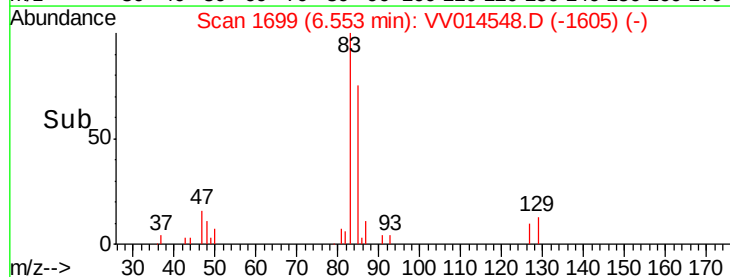
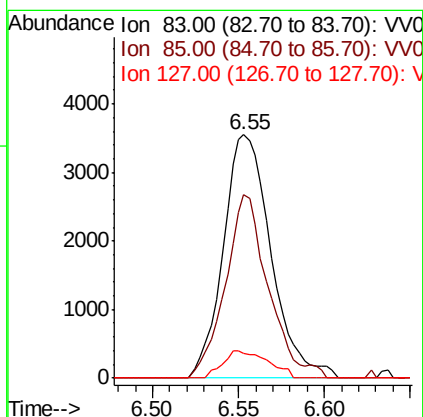
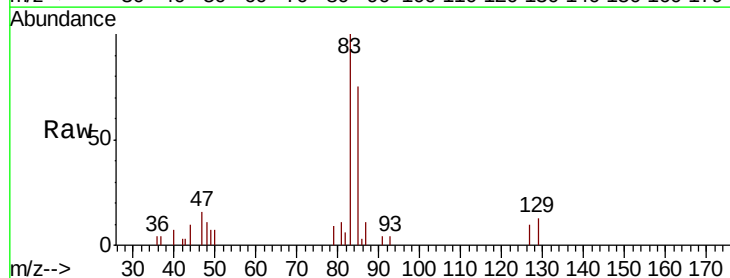
Instrument :
 MSVOA_V
 ClientSampleId :

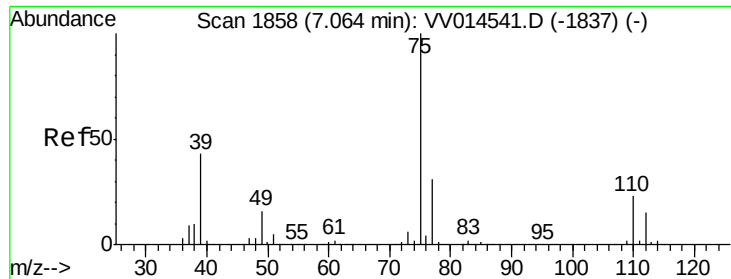
Tot Ion: 63 Resp: 5665
 Ion Ratio Lower Upper
 63 100
 112 2.0 3.7 5.5#



#38
 Bromodichloromethane
 Concen: 2.226 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV014548.D
 Acq: 10 Feb 2020 13:45

Tgt Ion: 83 Resp: 6884
 Ion Ratio Lower Upper
 83 100
 85 75.1 44.4 82.4
 127 10.1 6.7 10.1

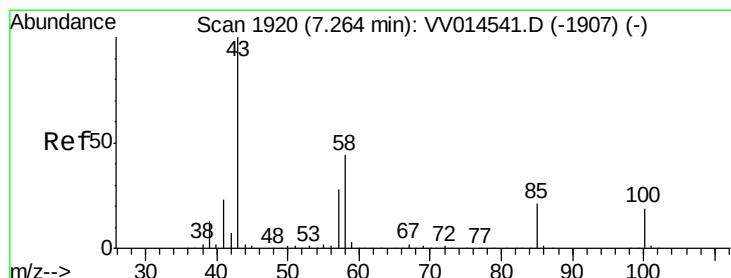
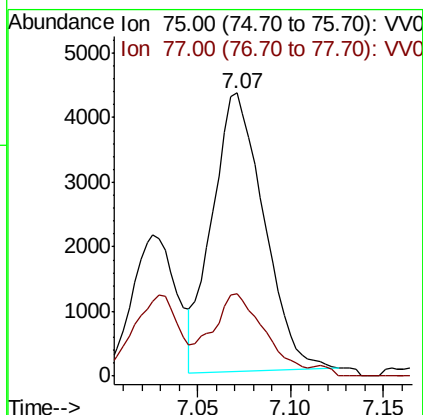
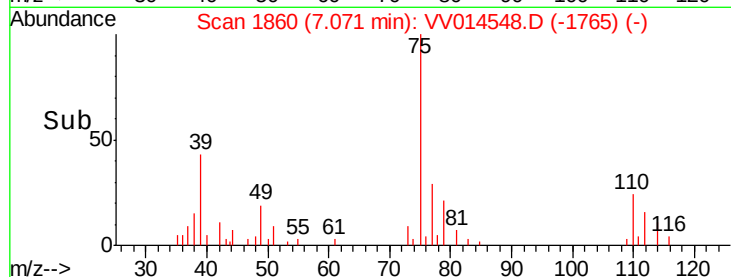
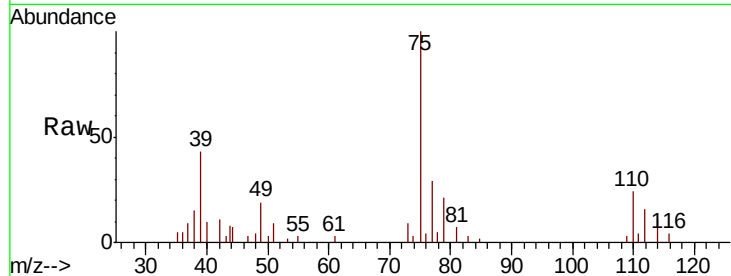




#39
 cis-1,3-Dichloropropene
 Concen: 2.170 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.01 min
 Lab File: VV014548.D
 Acq: 10 Feb 2020 13:45

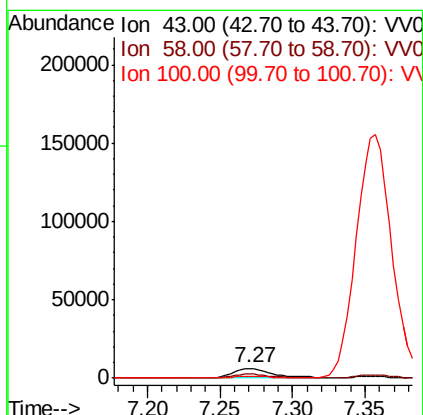
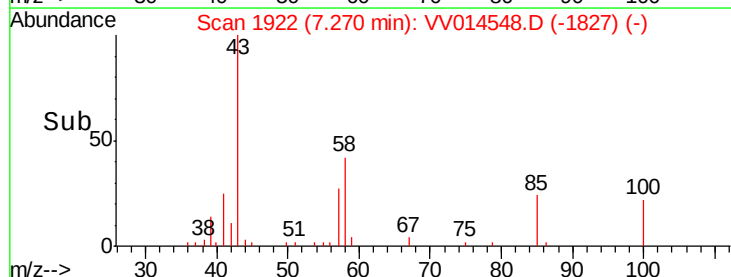
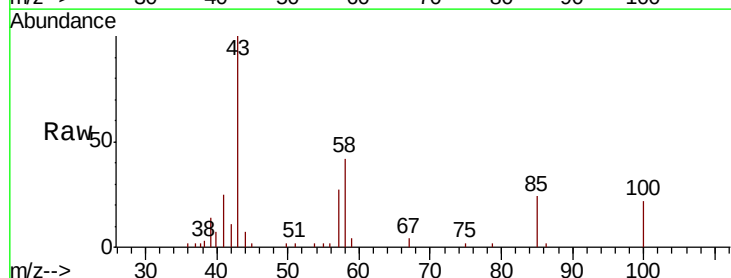
Instrument :
 MSVOA_V
 ClientSampleId :

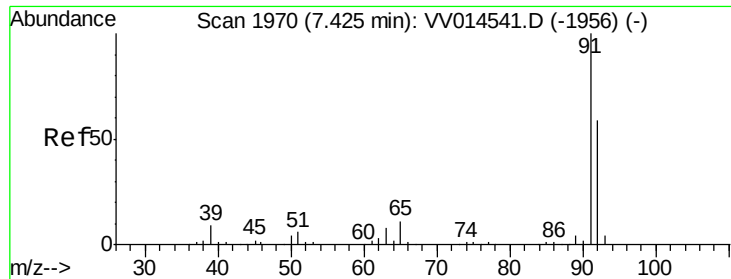
Tot Ion: 75 Resp: 8341
 Ion Ratio Lower Upper
 75 100
 77 29.1 22.7 42.1



#40
 4-Methyl-2-pentanone
 Concen: 4.092 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.01 min
 Lab File: VV014548.D
 Acq: 10 Feb 2020 13:45

Tgt Ion: 43 Resp: 12187
 Ion Ratio Lower Upper
 43 100
 58 38.1 33.2 49.8
 100 19.5 13.9 20.9





#42

Toluene

Concen: 2.369 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.01 min

Lab File: VV014548.D

Acq: 10 Feb 2020 13:45

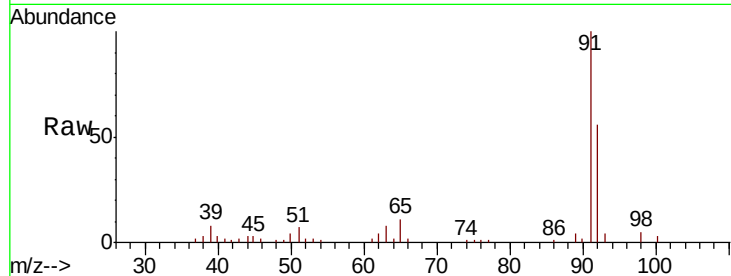
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 22985

Ion Ratio Lower Upper

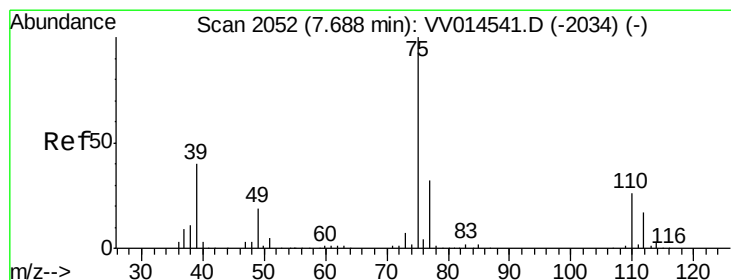
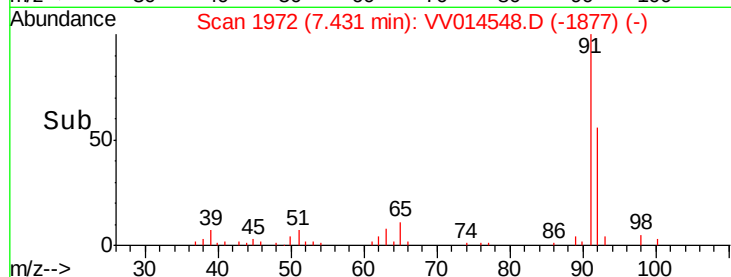
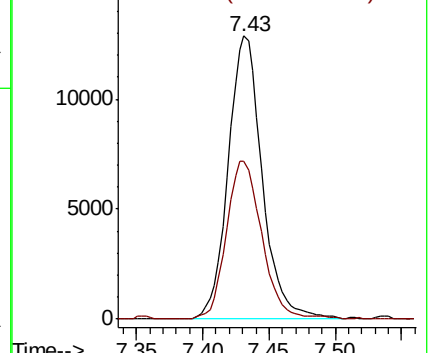
91 100

92 55.9 41.6 77.2



Abundance Ion 91.00 (90.70 to 91.70): VV014541.D (-1956) (-)

Ion 92.00 (91.70 to 92.70): VV014541.D (-1956) (-)



#44

trans-1,3-Dichloropropene

Concen: 2.115 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.01 min

Lab File: VV014548.D

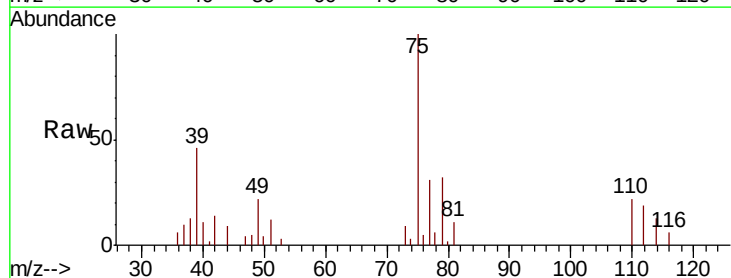
Acq: 10 Feb 2020 13:45

Tgt Ion: 75 Resp: 7289

Ion Ratio Lower Upper

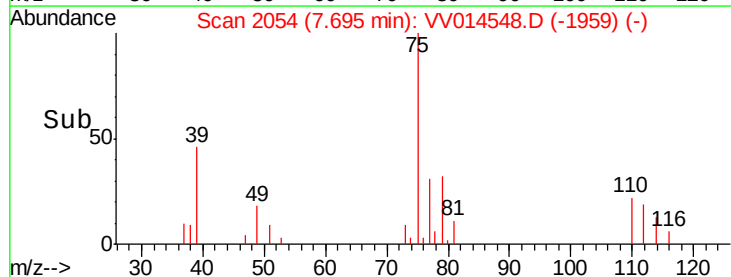
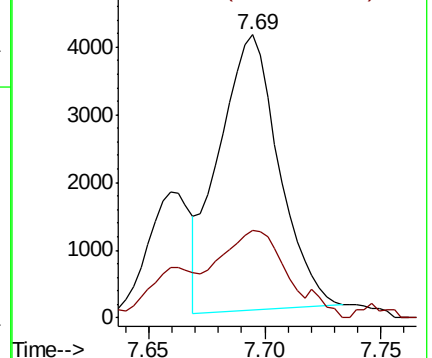
75 100

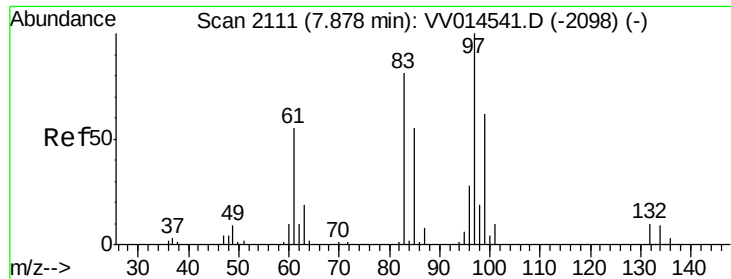
77 30.7 22.2 41.2



Abundance Ion 75.00 (74.70 to 75.70): VV014541.D (-2034) (-)

Ion 77.00 (76.70 to 77.70): VV014541.D (-2034) (-)

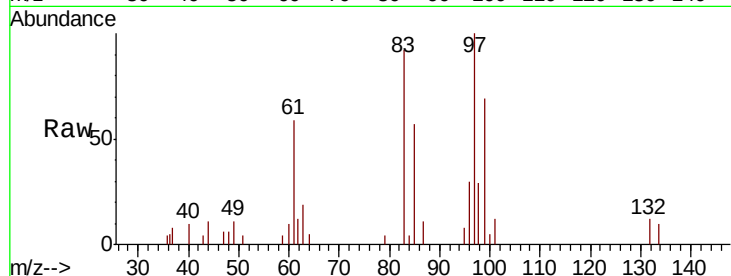




#45
1,1,2-Trichloroethane
Concen: 2.302 ug/L
RT: 7.88 min Scan# 2111
Delta R.T. 0.00 min
Lab File: VV014548.D
Acq: 10 Feb 2020 13:45

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:	97	Resp:	5089
Ion	Ratio	Lower	Upper
97	100		
99	68.6	44.5	82.7
83	91.5	60.1	111.5
85	57.0	38.1	70.9



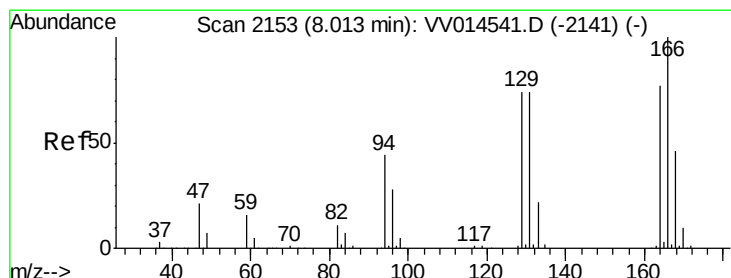
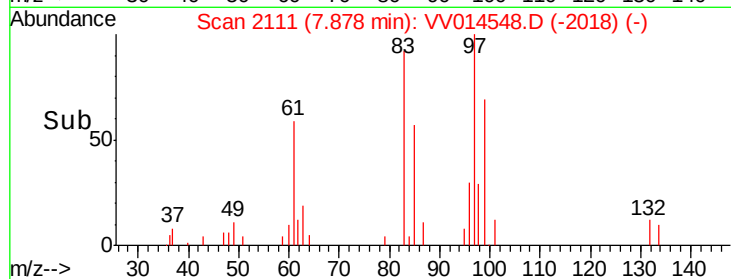
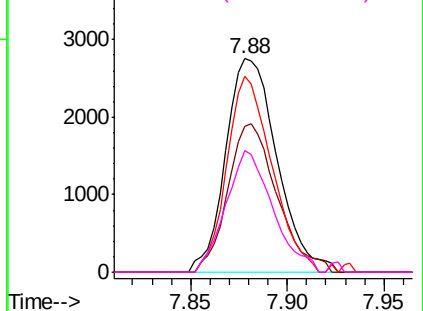
Abundance

Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

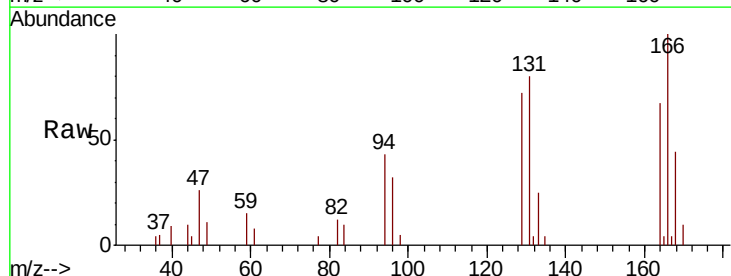
Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



#46
Tetrachloroethene
Concen: 2.131 ug/L
RT: 8.02 min Scan# 2154
Delta R.T. 0.00 min
Lab File: VV014548.D
Acq: 10 Feb 2020 13:45

Tgt Ion:	164	Resp:	3899
Ion	Ratio	Lower	Upper
164	100		
129	107.5	68.0	126.4
131	119.9	63.4	117.8#
166	149.1	86.9	161.3



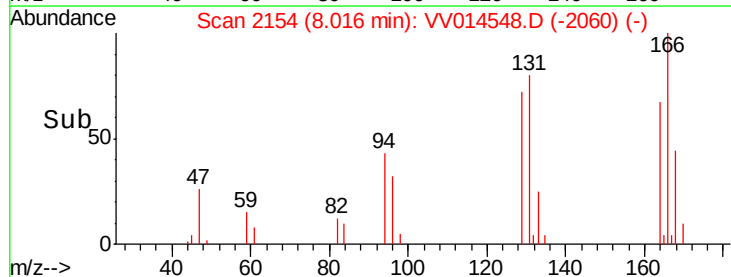
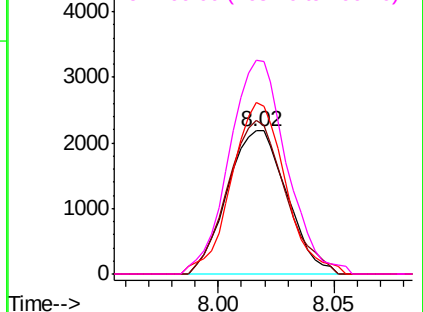
Abundance

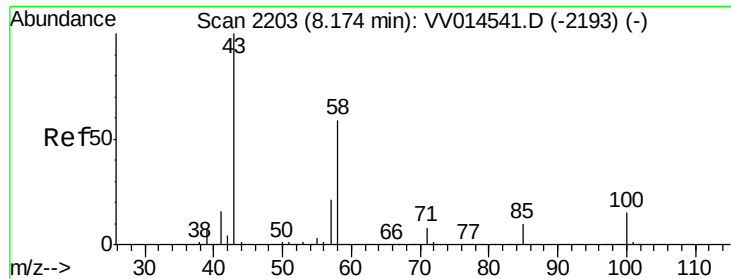
Ion 164.00 (163.70 to 164.70): V

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

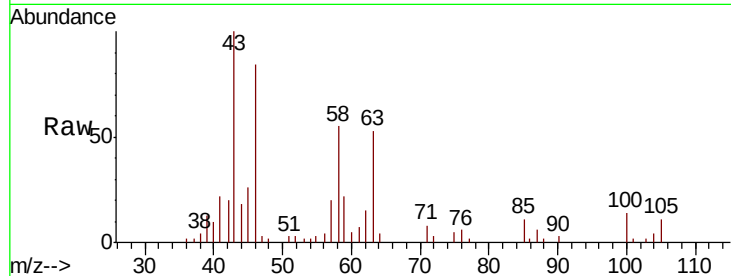




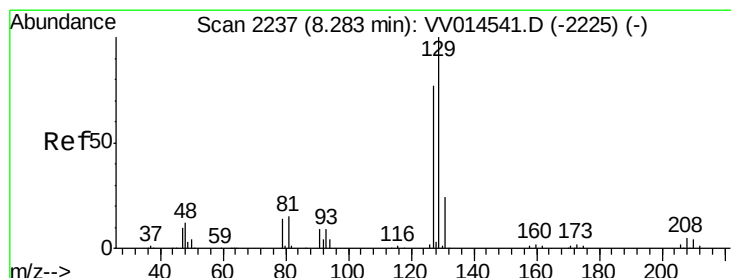
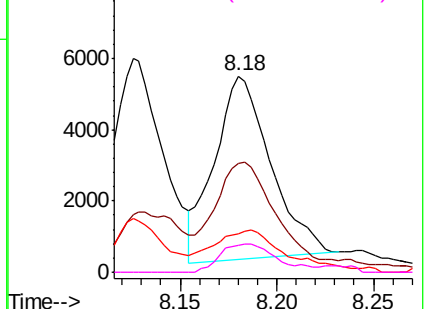
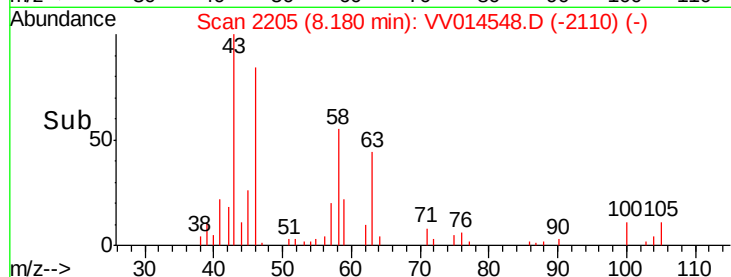
#48
2-Hexanone
Concen: 4.549 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. 0.01 min
Lab File: VV014548.D
Acq: 10 Feb 2020 13:45

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 10429
Ion Ratio Lower Upper
43 100
58 51.7 45.5 68.3
57 17.1 15.8 23.6
100 15.4 10.8 16.2

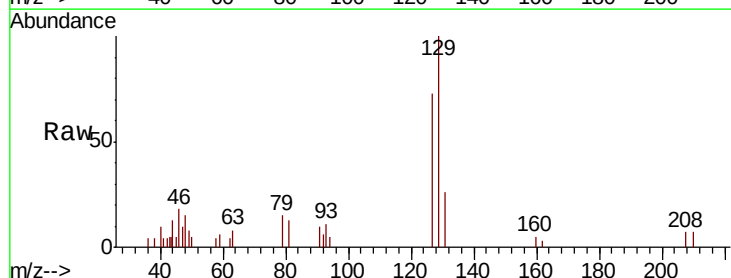


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

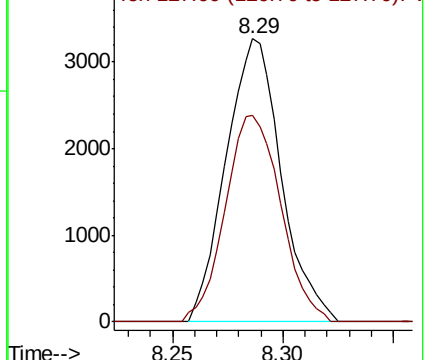
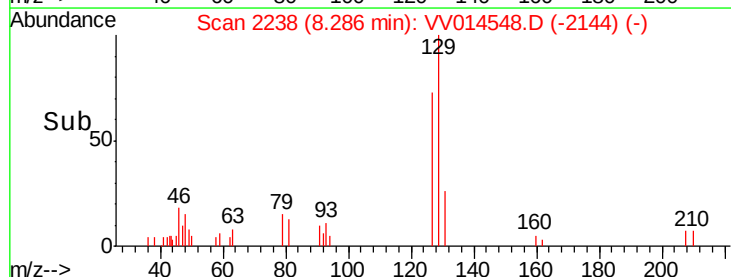


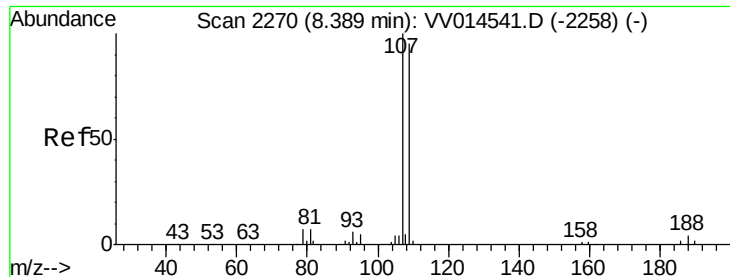
#49
Dibromochloromethane
Concen: 2.279 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VV014548.D
Acq: 10 Feb 2020 13:45

Tgt Ion: 129 Resp: 5688
Ion Ratio Lower Upper
129 100
127 73.0 54.1 100.5



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

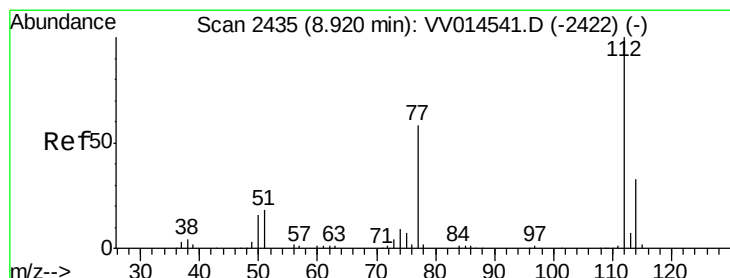
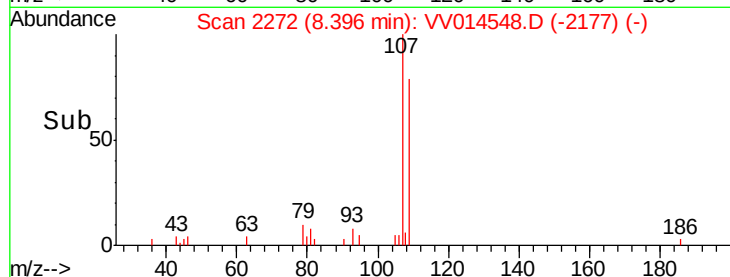
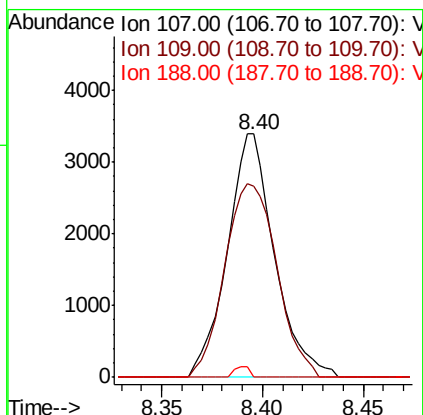
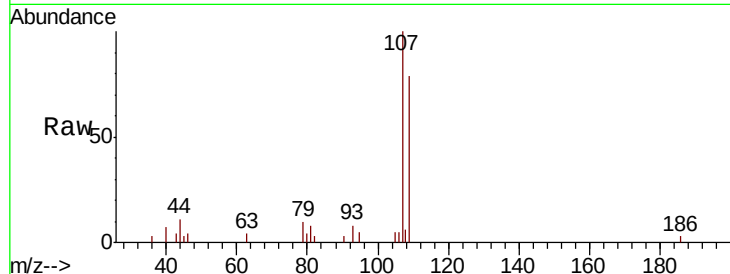




#50
 1,2-Dibromoethane
 Concen: 2.318 ug/L
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.01 min
 Lab File: VV014548.D
 Acq: 10 Feb 2020 13:45

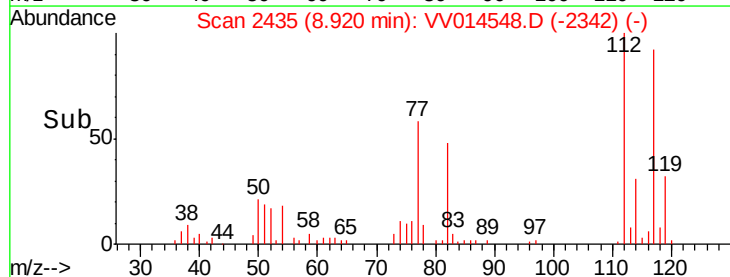
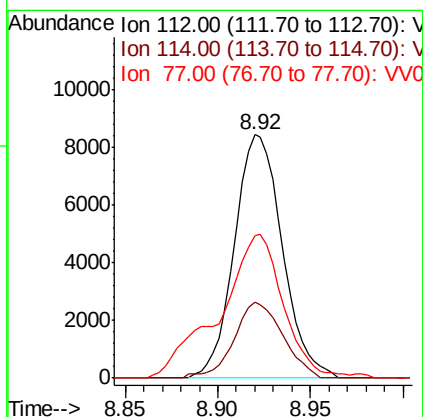
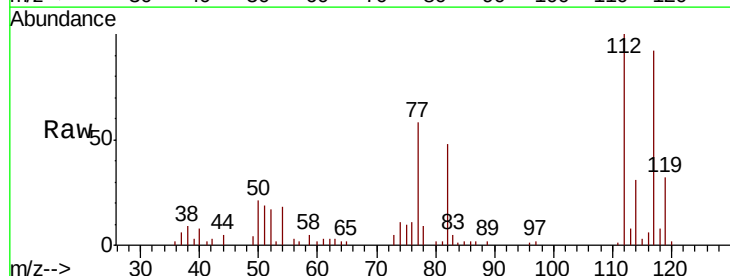
Instrument :
 MSVOA_V
 ClientSampleId :

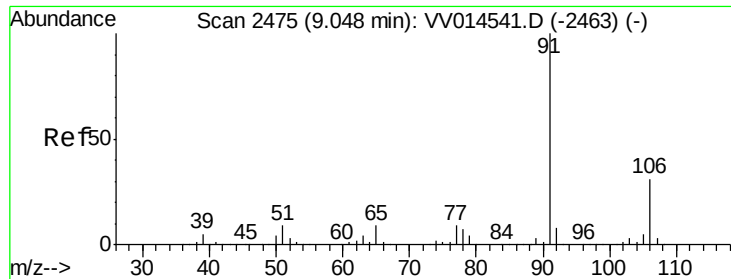
Tot Ion	Ratio	Lower	Upper
107	100		
109	78.6	65.2	121.2
188	0.0	2.6	4.0#



#51
 Chlorobenzene
 Concen: 2.395 ug/L
 RT: 8.92 min Scan# 2435
 Delta R.T. 0.00 min
 Lab File: VV014548.D
 Acq: 10 Feb 2020 13:45

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.3	22.3	41.5
77	58.4	47.3	70.9





#52

Ethylbenzene

Concen: 2.280 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. 0.00 min

Lab File: VV014548.D

Acq: 10 Feb 2020 13:45

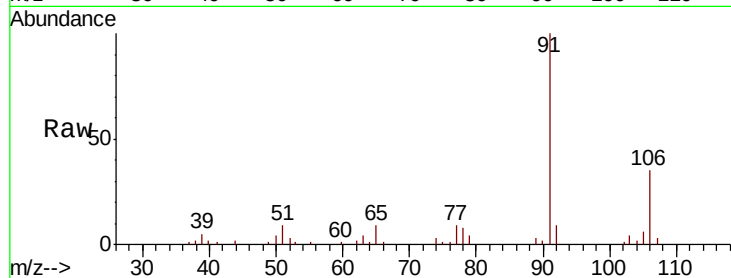
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 91 Resp: 24807

Ion Ratio Lower Upper

91 100

106 35.2 21.5 39.9



Abundance Ion 91.00 (90.70 to 91.70): VV014541.D (-2463) (-)

Ion 106.00 (105.70 to 106.70): VV014541.D (-2463) (-)

9.05

15000

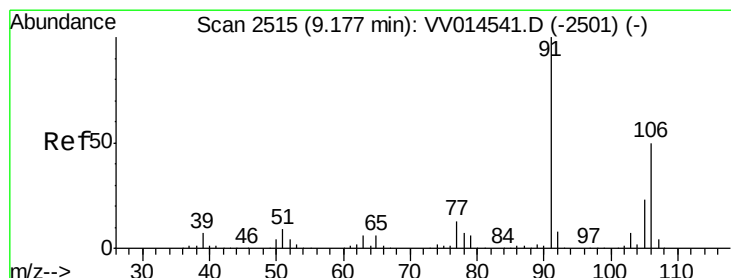
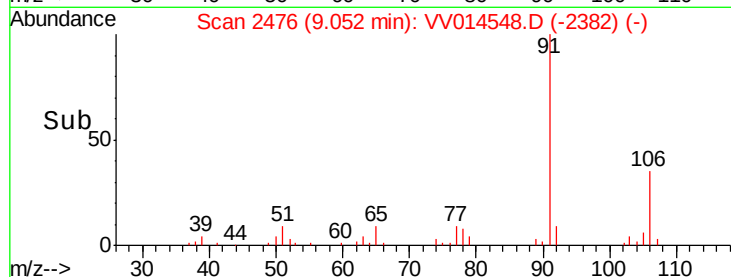
10000

5000

0

9.00 9.05 9.10

Time-->



#53

m,p-Xylene

Concen: 2.293 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV014548.D

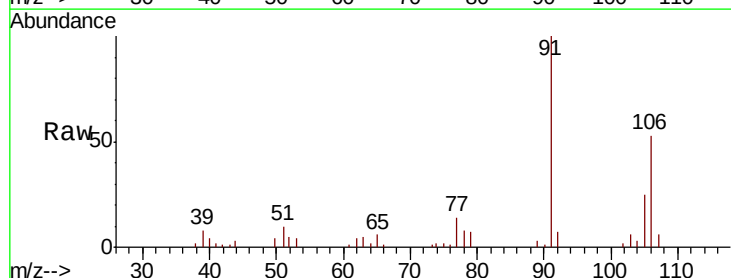
Acq: 10 Feb 2020 13:45

Tgt Ion: 106 Resp: 9609

Ion Ratio Lower Upper

106 100

91 190.4 141.4 262.6



Abundance Ion 106.00 (105.70 to 106.70): VV014541.D (-2501) (-)

Ion 91.00 (90.70 to 91.70): VV014541.D (-2501) (-)

9.18

12000

10000

8000

6000

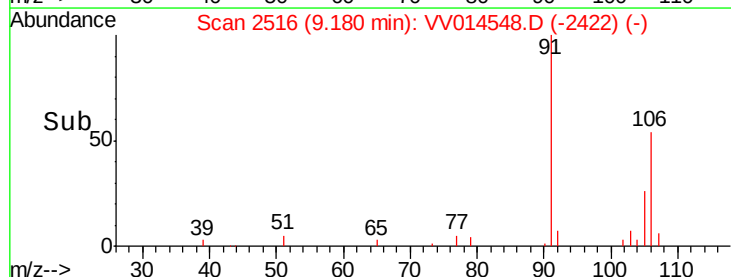
4000

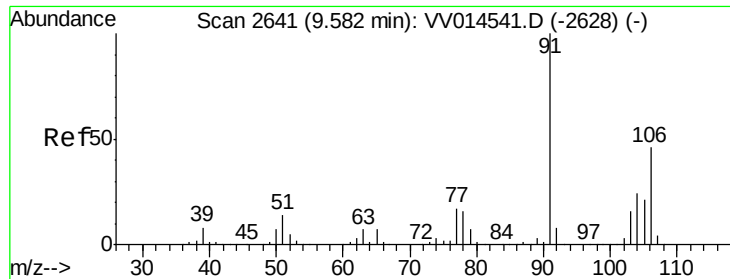
2000

0

9.15 9.20 9.25

Time-->

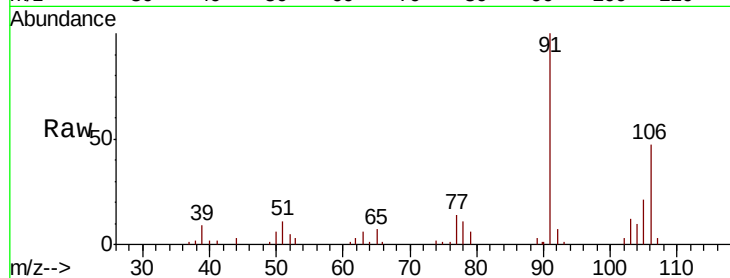




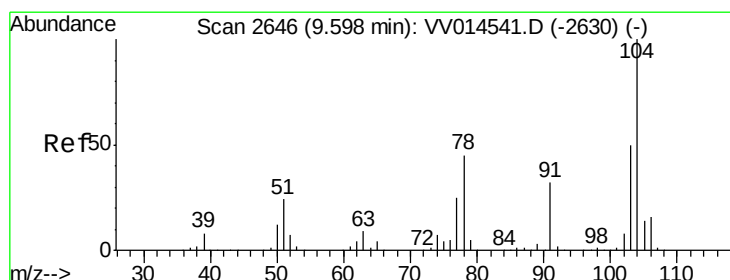
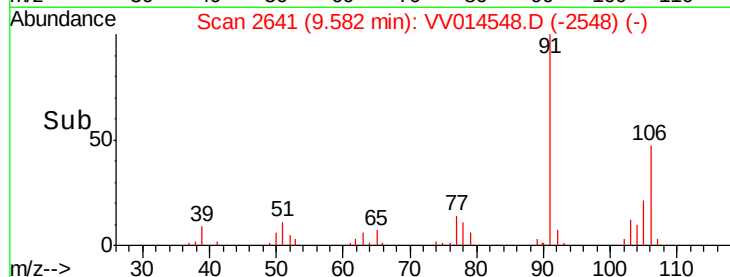
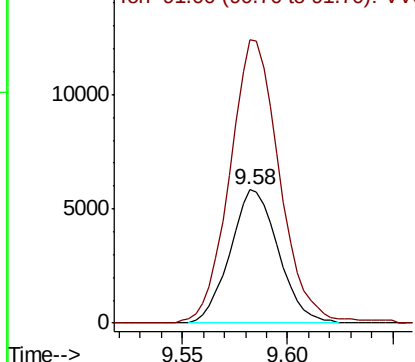
#54
o-Xylene
Concen: 2.307 ug/L
RT: 9.58 min Scan# 2641
Delta R.T. 0.00 min
Lab File: VV014548.D
Acq: 10 Feb 2020 13:45

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:106 Resp: 9255
Ion Ratio Lower Upper
106 100
91 212.4 149.4 277.4

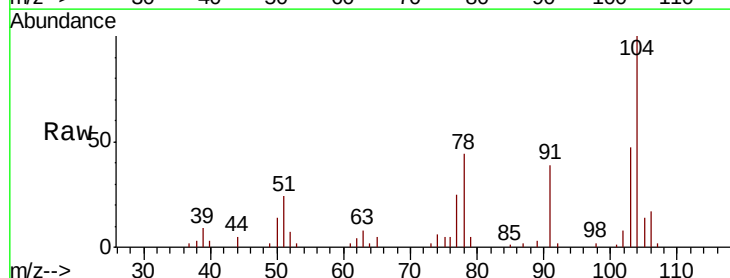


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

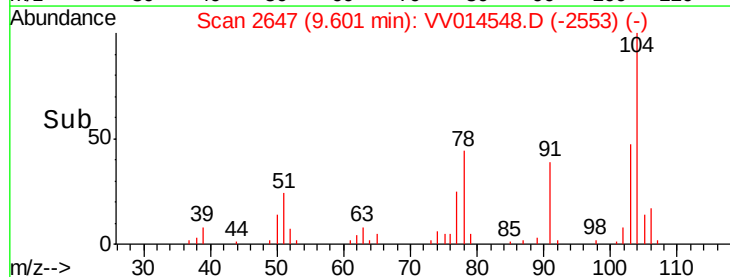
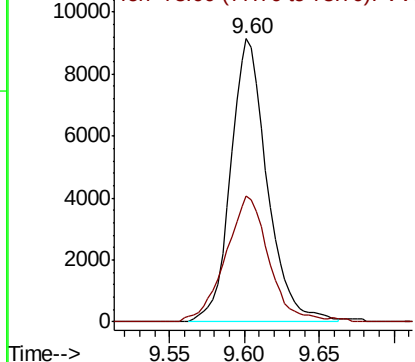


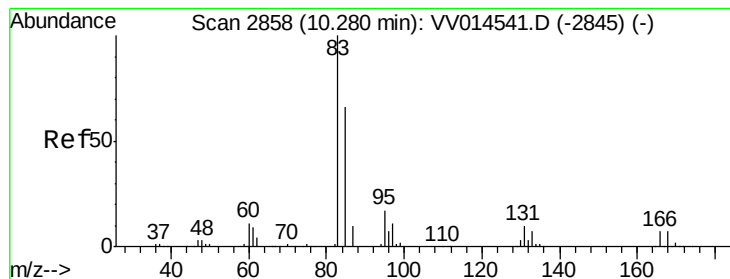
#55
Styrene
Concen: 2.266 ug/L
RT: 9.60 min Scan# 2647
Delta R.T. 0.00 min
Lab File: VV014548.D
Acq: 10 Feb 2020 13:45

Tgt Ion:104 Resp: 15531
Ion Ratio Lower Upper
104 100
78 44.4 31.6 58.8



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VV0





#57

1,1,2,2-Tetrachloroethane

Concen: 2.529 ug/L

RT: 10.28 min Scan# 2858

Delta R.T. 0.00 min

Lab File: VV014548.D

Acq: 10 Feb 2020 13:45

Instrument :

MSVOA_V

ClientSampleId :

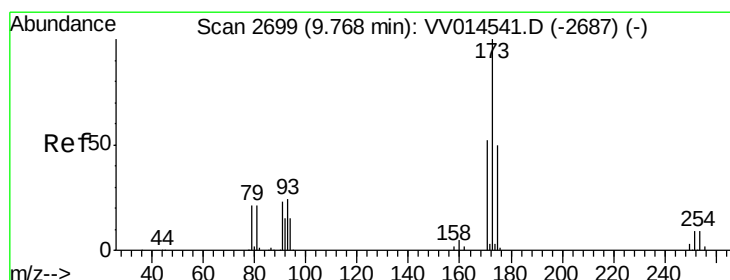
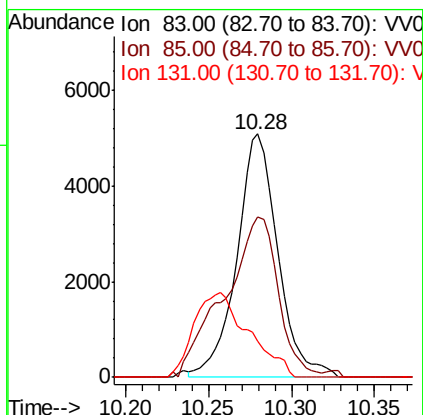
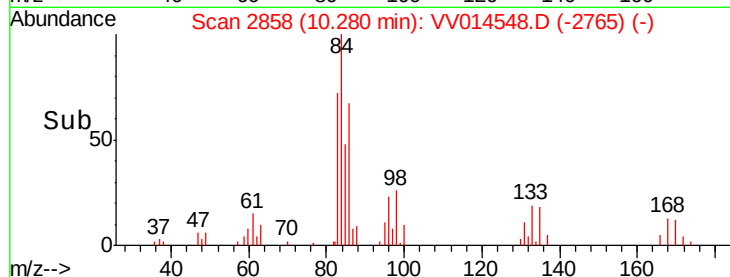
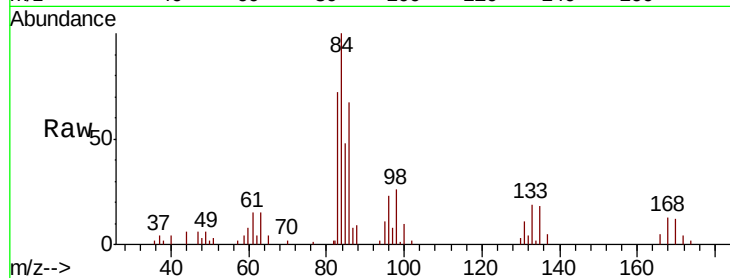
Tot Ion: 83 Resp: 8763

Ion Ratio Lower Upper

83 100

85 66.1 45.2 84.0

131 14.7 7.8 11.8#



#59

Bromoform

Concen: 2.312 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. 0.00 min

Lab File: VV014548.D

Acq: 10 Feb 2020 13:45

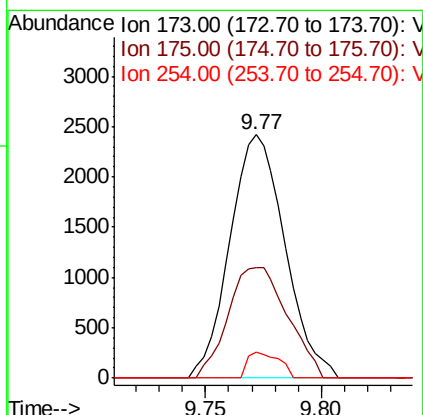
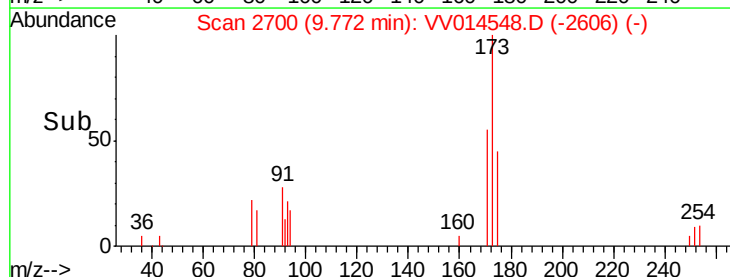
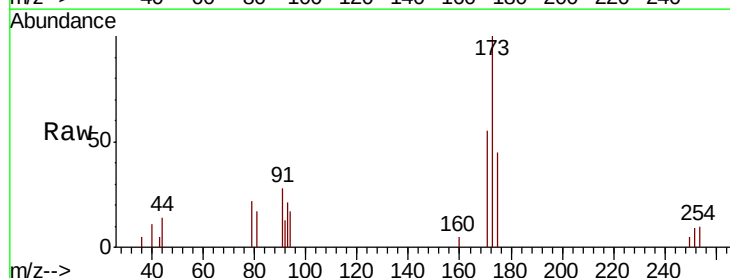
Tgt Ion: 173 Resp: 3993

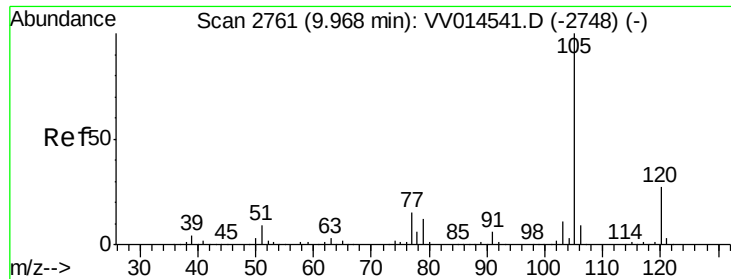
Ion Ratio Lower Upper

173 100

175 48.9 37.8 56.8

254 6.0 7.0 10.6#





#60

Isopropylbenzene

Concen: 2.274 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV014548.D

Acq: 10 Feb 2020 13:45

Instrument :

MSVOA_V

ClientSampleId :

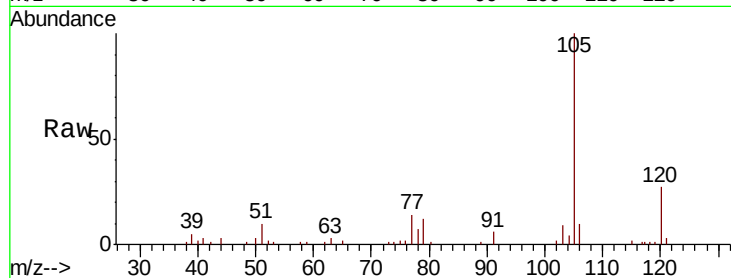
Tot Ion:105 Resp: 23811

Ion Ratio Lower Upper

105 100

120 27.1 21.5 32.3

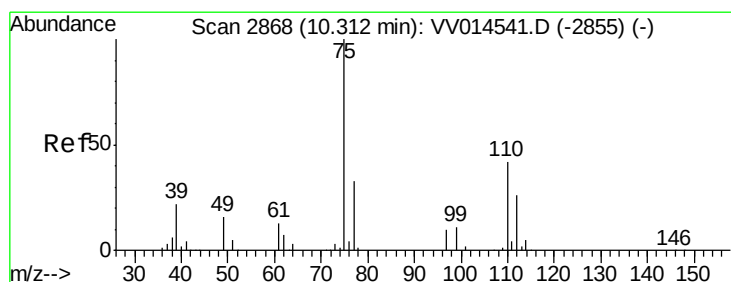
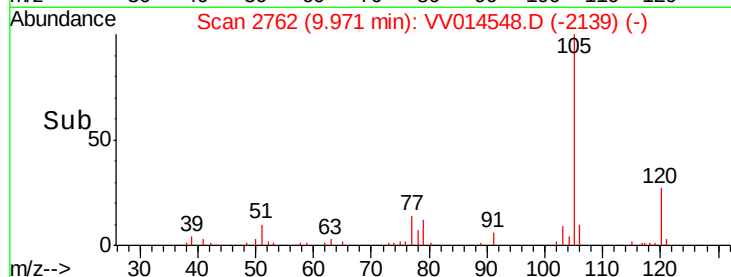
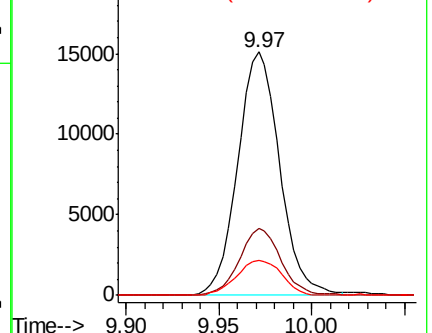
77 15.5 12.2 18.4



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



#61

1,2,3-Trichloropropane

Concen: 2.408 ug/L

RT: 10.32 min Scan# 2869

Delta R.T. 0.00 min

Lab File: VV014548.D

Acq: 10 Feb 2020 13:45

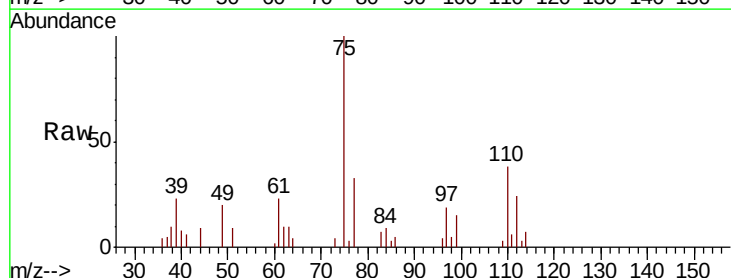
Tgt Ion: 75 Resp: 6602

Ion Ratio Lower Upper

75 100

77 32.6 25.8 38.8

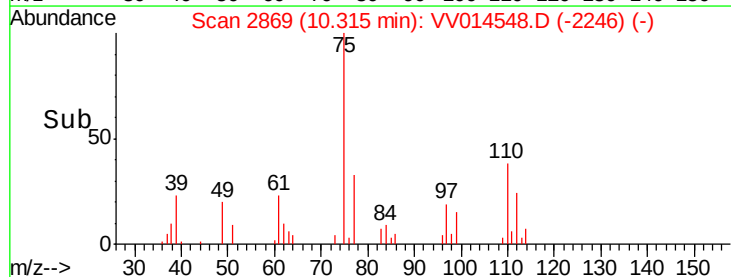
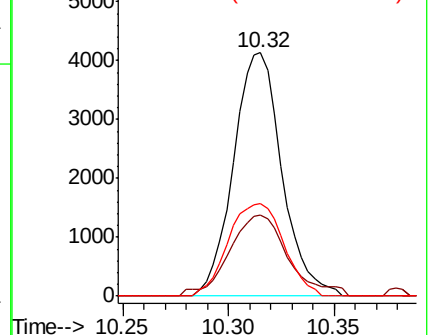
110 43.4 32.4 48.6

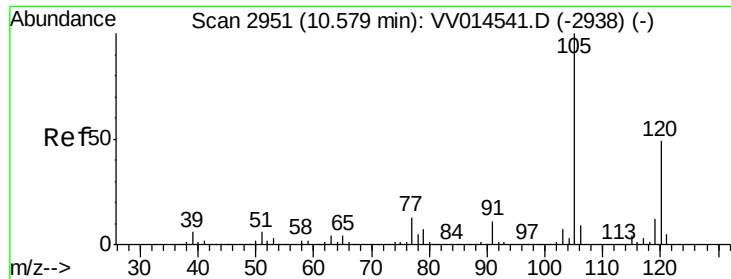


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

Ion 110.00 (109.70 to 110.70): V

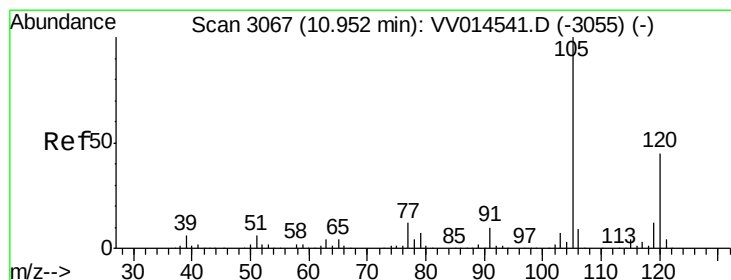
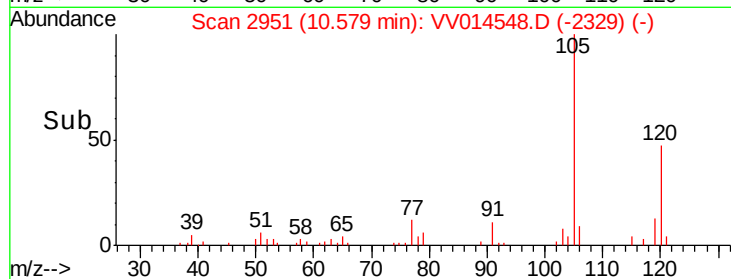
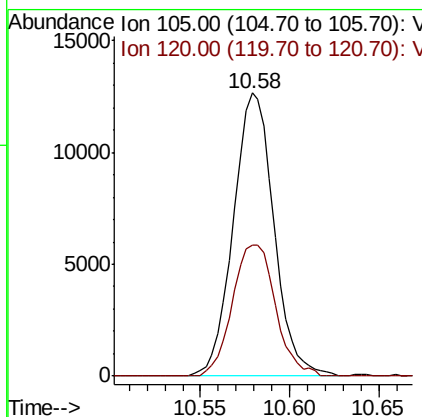
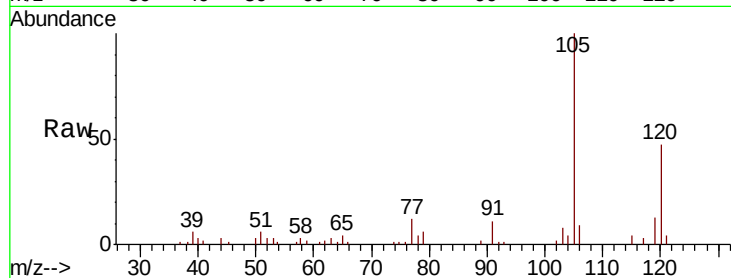




#62
 1,3,5-Trimethylbenzene
 Concen: 2.234 ug/L
 RT: 10.58 min Scan# 2951
 Delta R.T. 0.00 min
 Lab File: VV014548.D
 Acq: 10 Feb 2020 13:45

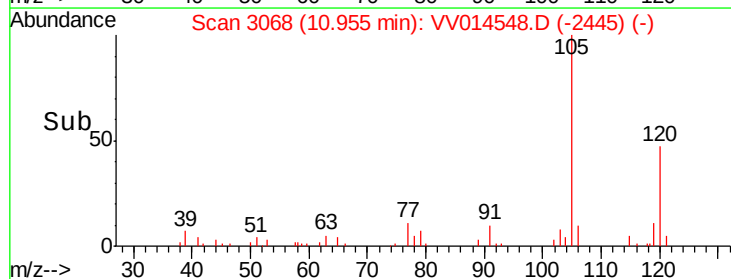
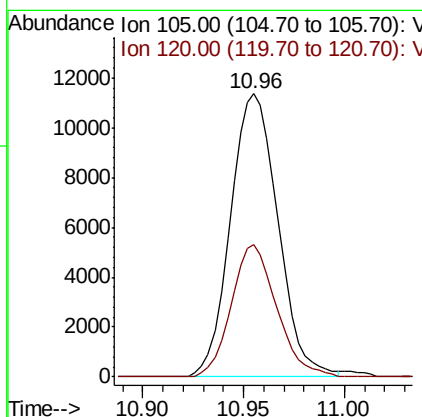
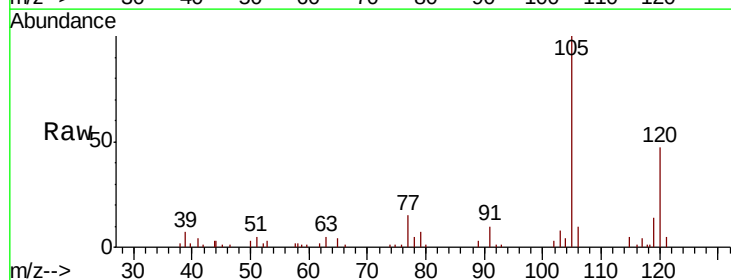
Instrument :
 MSVOA_V
 ClientSampled :

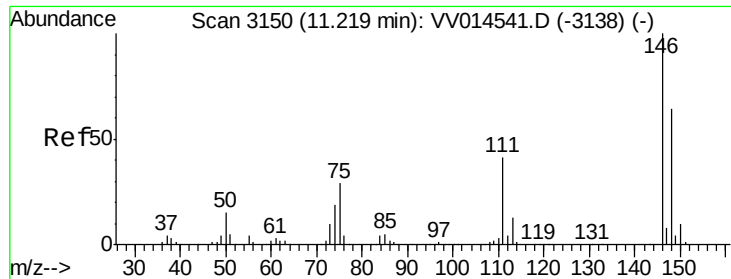
Tot Ion:105 Resp: 20023
 Ion Ratio Lower Upper
 105 100
 120 48.6 39.0 58.6



#63
 1,2,4-Trimethylbenzene
 Concen: 2.120 ug/L
 RT: 10.96 min Scan# 3068
 Delta R.T. 0.00 min
 Lab File: VV014548.D
 Acq: 10 Feb 2020 13:45

Tgt Ion:105 Resp: 18736
 Ion Ratio Lower Upper
 105 100
 120 44.6 36.2 54.4

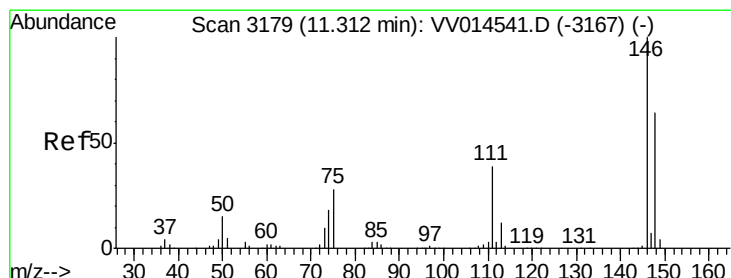
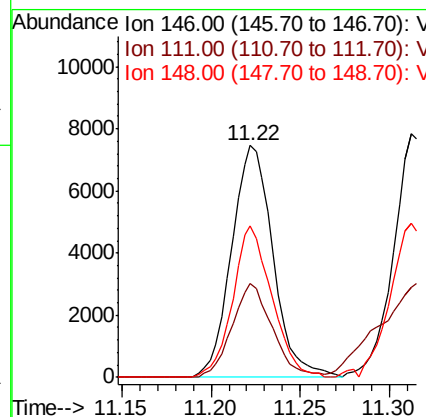
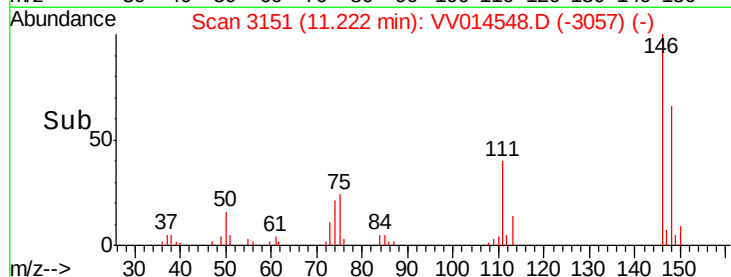
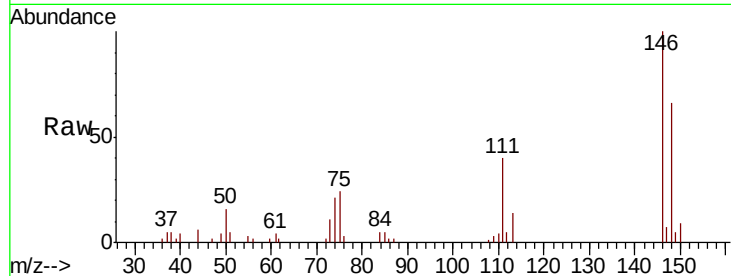




#64
 1,3-Dichlorobenzene
 Concen: 2.443 ug/L
 RT: 11.22 min Scan# 3151
 Delta R.T. 0.00 min
 Lab File: VV014548.D
 Acq: 10 Feb 2020 13:45

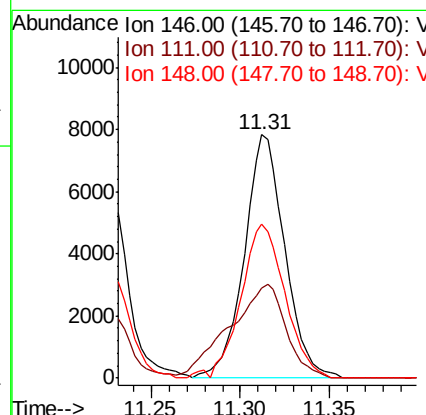
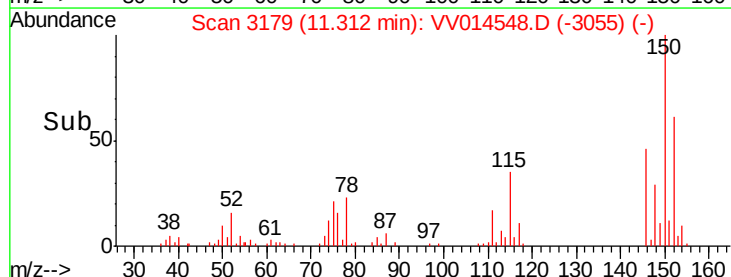
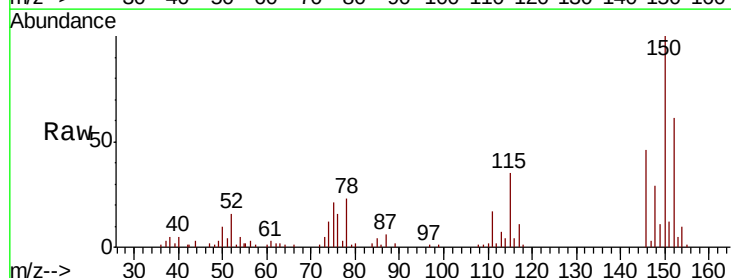
Instrument :
 MSVOA_V
 ClientSampled :

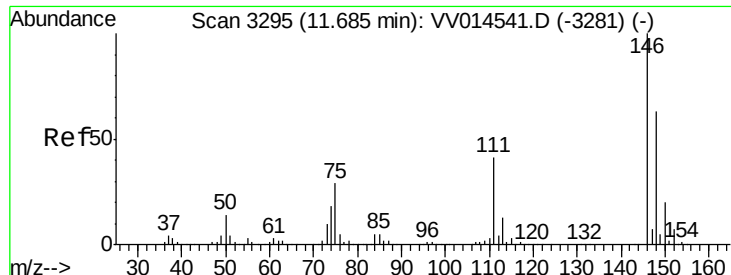
Tot Ion:146 Resp: 12067
 Ion Ratio Lower Upper
 146 100
 111 40.3 28.9 53.7
 148 65.6 44.4 82.5



#65
 1,4-Dichlorobenzene
 Concen: 2.449 ug/L
 RT: 11.31 min Scan# 3179
 Delta R.T. 0.00 min
 Lab File: VV014548.D
 Acq: 10 Feb 2020 13:45

Tgt Ion:146 Resp: 12451
 Ion Ratio Lower Upper
 146 100
 111 37.1 28.1 52.3
 148 63.2 44.4 82.4

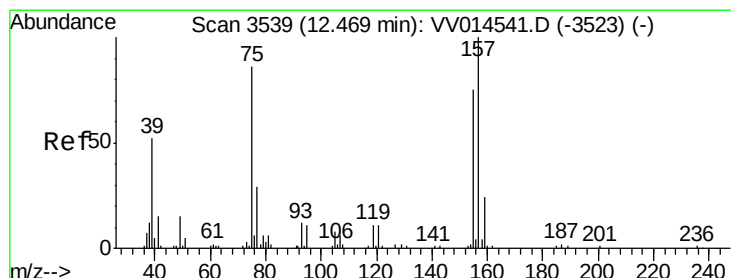
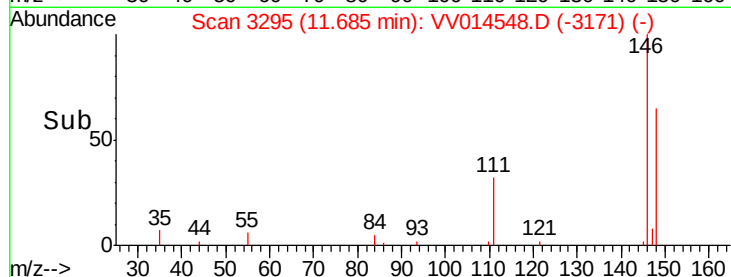
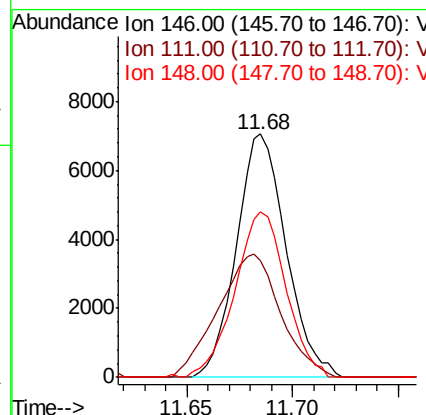
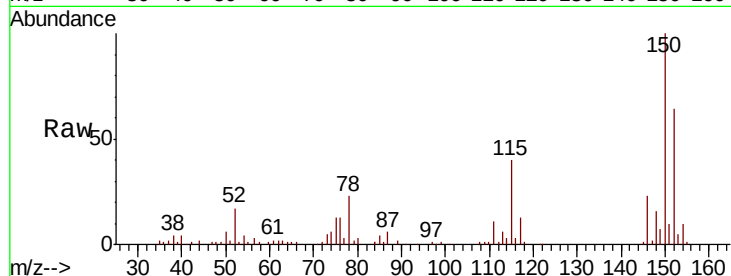




#67
 1,2-Dichlorobenzene
 Concen: 2.416 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. 0.00 min
 Lab File: VV014548.D
 Acq: 10 Feb 2020 13:45

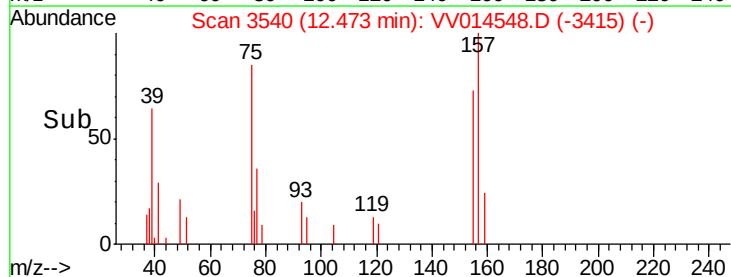
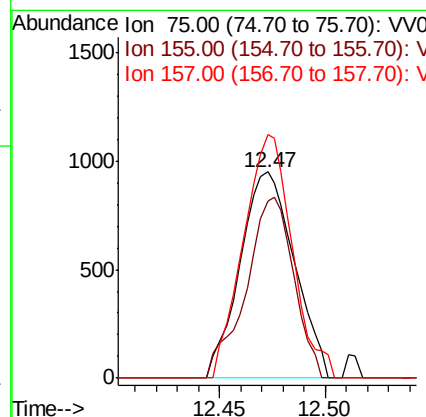
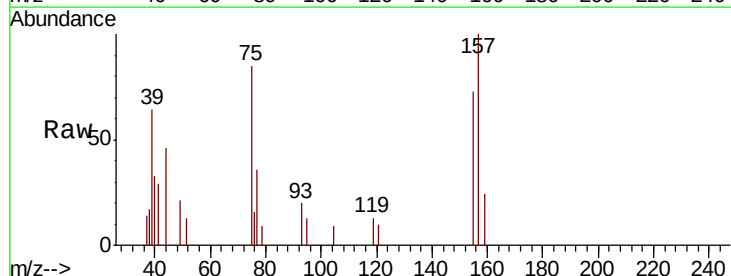
Instrument :
 MSVOA_V
 ClientSampled :

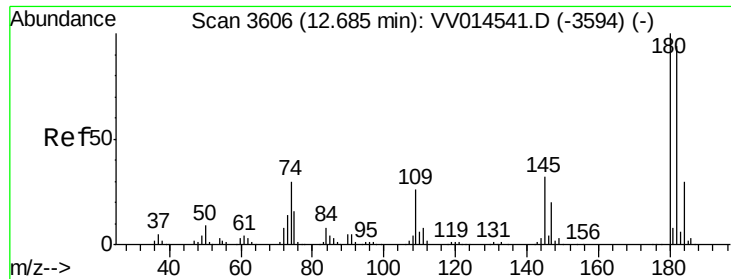
Tot Ion:146 Resp: 11569
 Ion Ratio Lower Upper
 146 100
 111 47.9 34.6 51.8
 148 68.1 50.2 75.4



#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.203 ug/L
 RT: 12.47 min Scan# 3540
 Delta R.T. 0.00 min
 Lab File: VV014548.D
 Acq: 10 Feb 2020 13:45

Tgt Ion: 75 Resp: 1692
 Ion Ratio Lower Upper
 75 100
 155 86.0 68.3 102.5
 157 118.1 87.1 130.7

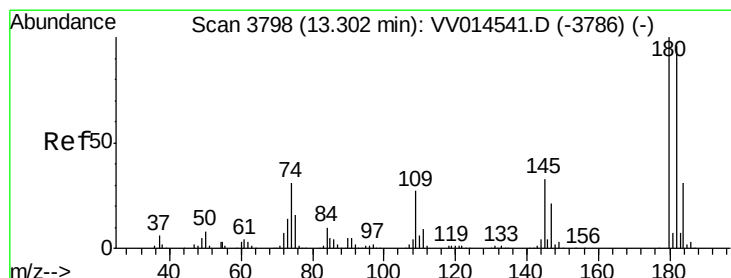
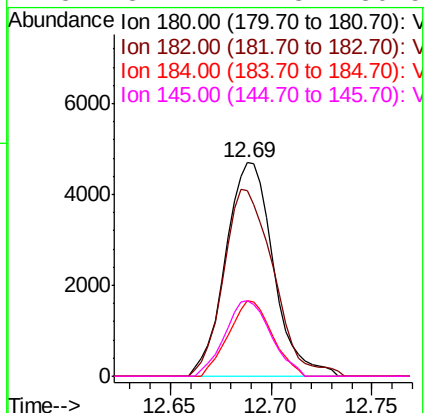
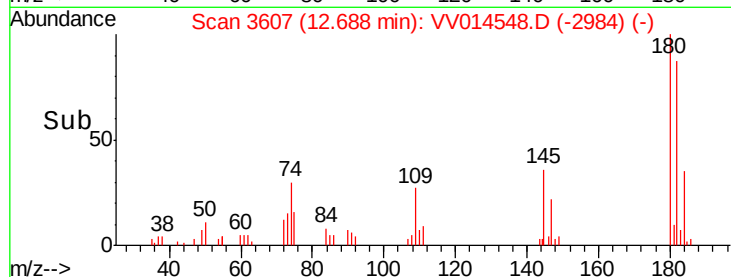
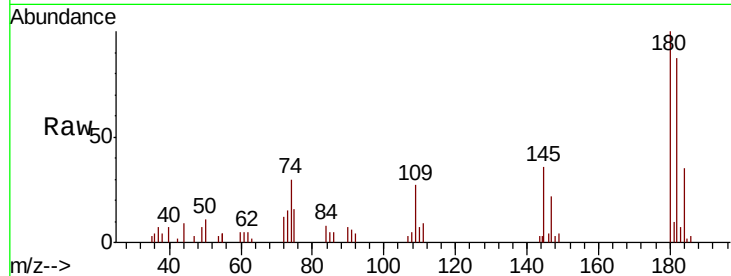




#69
 1,3,5-Trichlorobenzene
 Concen: 2.240 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VV014548.D
 Acq: 10 Feb 2020 13:45

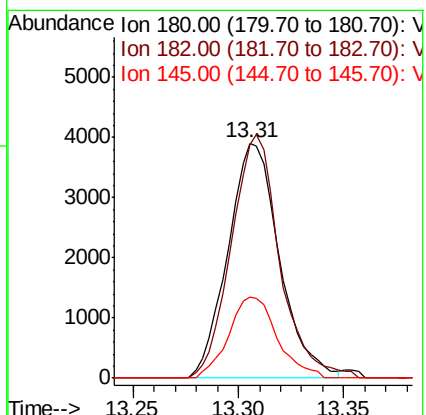
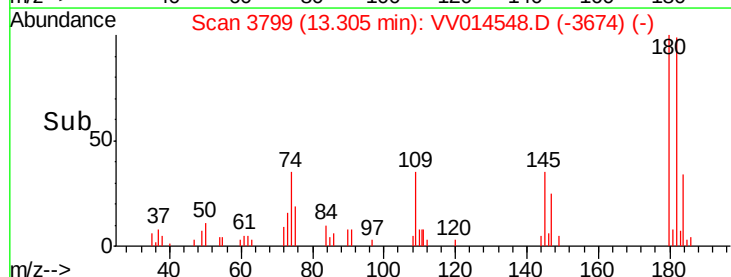
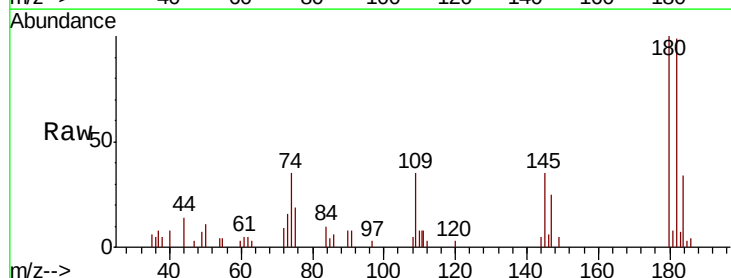
Instrument :
 MSVOA_V
 ClientSampleId :

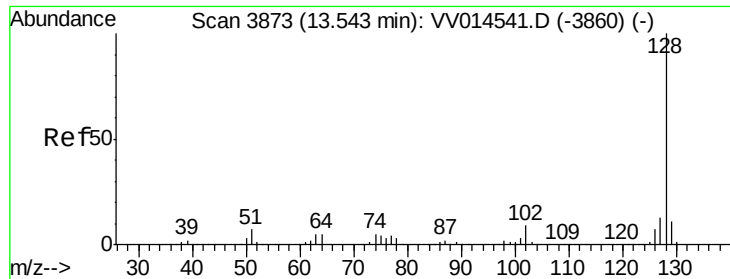
Tot Ion:	180	Resp:	7795
Ion	Ratio	Lower	Upper
180	100		
182	91.1	75.0	112.4
184	32.2	24.2	36.2
145	34.1	24.3	36.5



#70
 1,2,4-trichlorobenzene
 Concen: 2.078 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV014548.D
 Acq: 10 Feb 2020 13:45

Tgt Ion:	180	Resp:	6640
Ion	Ratio	Lower	Upper
180	100		
182	96.9	76.0	114.0
145	32.4	25.3	37.9





#71

Naphthalene

Concen: 2.056 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.01 min

Lab File: VV014548.D

Acq: 10 Feb 2020 13:45

Instrument :

MSVOA_V

ClientSampleId :

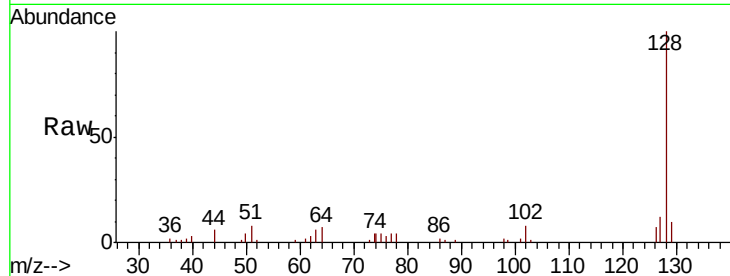
Tot Ion:128 Resp: 21578

Ion Ratio Lower Upper

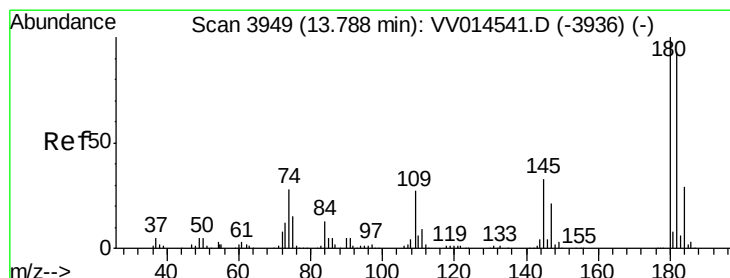
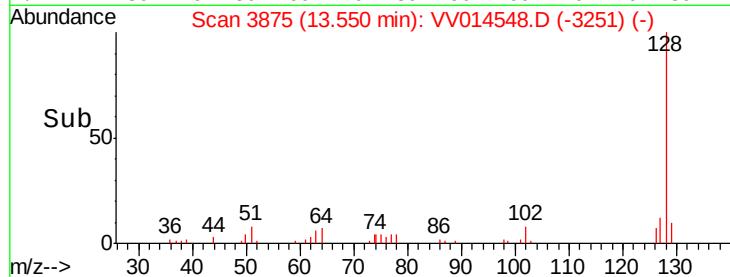
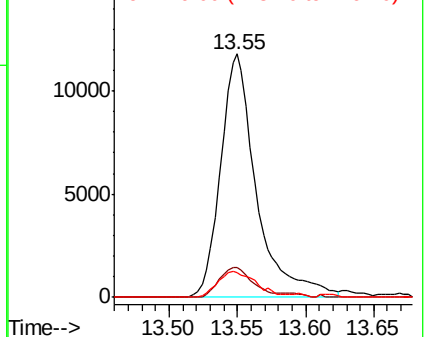
128 100

127 11.5 10.3 15.5

129 10.3 8.7 13.1



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



#72

1,2,3-Trichlorobenzene

Concen: 2.067 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. 0.00 min

Lab File: VV014548.D

Acq: 10 Feb 2020 13:45

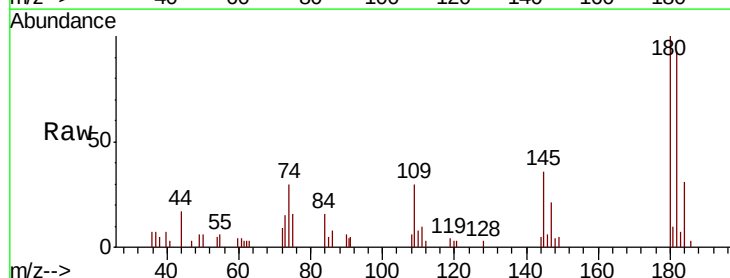
Tgt Ion:180 Resp: 6416

Ion Ratio Lower Upper

180 100

182 94.0 75.2 112.8

145 36.6 27.1 40.7



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

