

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV121419\
 Data File : VV014058.D
 Acq On : 13 Dec 2019 17:49
 Operator : SY/MD
 Sample : VV1214MBL01
 Misc : 5.00µg/5.0mL/100µL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Dec 14 05:38:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM080619W.M
 Quant Title : VOC Analysis
 QLast Update : Sat Dec 14 05:36:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	314522	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	309268	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	135592	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	96093	55.89	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	111.78%
7) Chloroethane-d5	1.56	69	91223	74.75	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	149.50%#
11) 1,1-Dichloroethene-d2	2.12	63	140723	47.21	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.42%
21) 2-Butanone-d5	3.92	46	155947	124.49	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	124.49%
24) Chloroform-d	4.39	84	210949	48.90	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.80%
26) 1,2-Dichloroethane-d4	5.07	65	134153	48.41	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.82%
32) Benzene-d6	5.09	84	415550	46.69	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.38%
36) 1,2-Dichloropropane-d6	6.11	67	135727	52.65	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	105.30%
41) Toluene-d8	7.35	98	355366	41.41	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	82.82%
43) trans-1,3-Dichloropropene-	7.66	79	56299	38.41	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	76.82%
47) 2-Hexanone-d5	8.13	63	99629	93.05	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	93.05%
56) 1,1,2,2-Tetrachloroethane-	10.25	84	166460	45.81	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	91.62%
66) 1,2-Dichlorobenzene-d4	11.67	152	155690	48.82	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.64%

Target Compounds

					Ovalue
3) Chloromethane	1.25	50	2056	1.303 ug/L	97
5) Vinyl chloride	1.32	62	1046	0.687 ug/L #	1
6) Bromomethane	1.51	94	1201	1.359 ug/L	89
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	1790	1.475 ug/L #	39
12) 1,1-Dichloroethene	2.12	96	1626	1.423 ug/L #	1
13) Acetone	2.19	43	4067	4.762 ug/L	86
14) Carbon disulfide	2.31	76	3010	0.779 ug/L #	92
16) Methylene chloride	2.53	84	1586	0.915 ug/L	81
17) trans-1,2-Dichloroethene	2.79	96	696	0.431 ug/L #	79
40) 4-Methyl-2-pentanone	7.27	43	2165	0.969 ug/L #	88
44) trans-1,3-Dichloropropene	7.66	75	2257	0.781 ug/L	97
48) 2-Hexanone	8.18	43	8231	4.885 ug/L #	73
55) Styrene	9.60	104	1977	0.345 ug/L	91
57) 1,1,2,2-Tetrachloroethane	10.26	83	1734	0.602 ug/L #	1
60) Isopropylbenzene	9.97	105	1889	0.254 ug/L #	92
61) 1,2,3-Trichloropropane	10.32	75	877	0.476 ug/L #	52
62) 1,3,5-Trimethylbenzene	10.58	105	1470	0.229 ug/L	91

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 QLast Update : Sat Dec 14 05:36:38 2019
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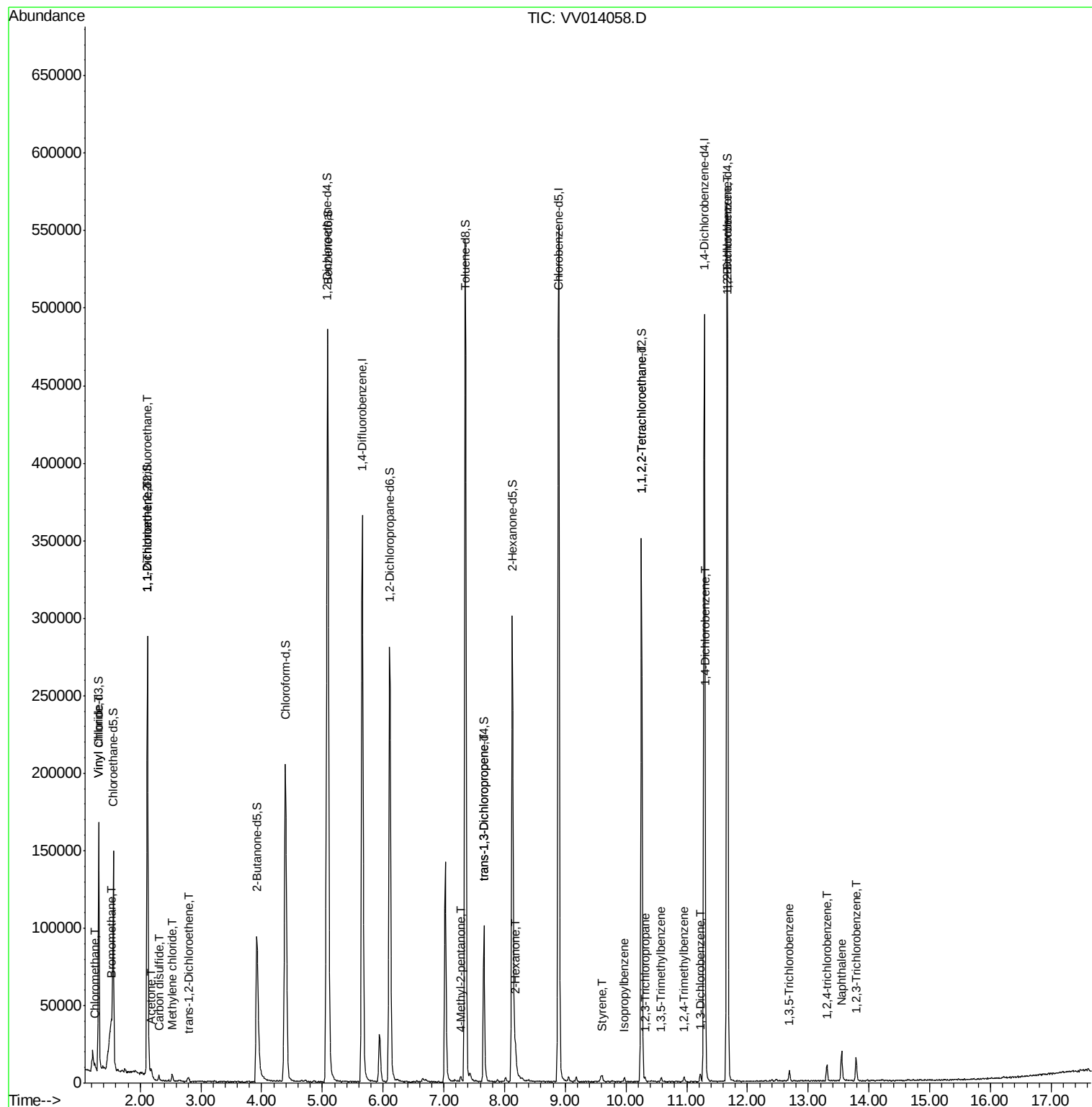
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,2,4-Trimethylbenzene	10.95	105	1850	0.292	ug/L	88
64) 1,3-Dichlorobenzene	11.22	146	2295	0.613	ug/L	93
65) 1,4-Dichlorobenzene	11.31	146	3116	0.823	ug/L	95
67) 1,2-Dichlorobenzene	11.68	146	2821	0.738	ug/L #	74
69) 1,3,5-Trichlorobenzene	12.69	180	2788	0.918	ug/L	99
70) 1,2,4-trichlorobenzene	13.31	180	3935	1.495	ug/L	97
71) Naphthalene	13.55	128	16345	2.450	ug/L	96
72) 1,2,3-Trichlorobenzene	13.79	180	5112	1.930	ug/L	98

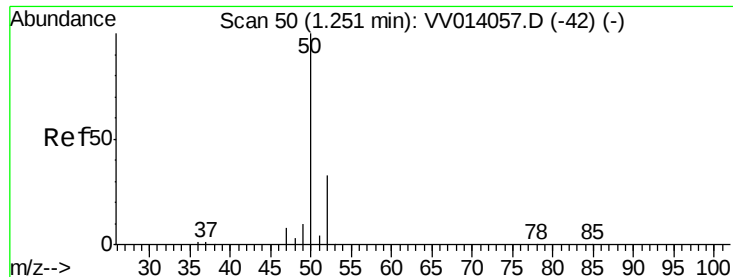
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis
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Response via : Initial Calibration





#3

Chloromethane

Concen: 1.303 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV014058.D

Acq: 13 Dec 2019 17:49

Instrument :

MSVOA_V

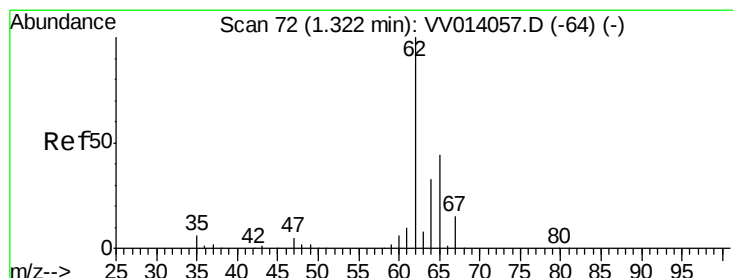
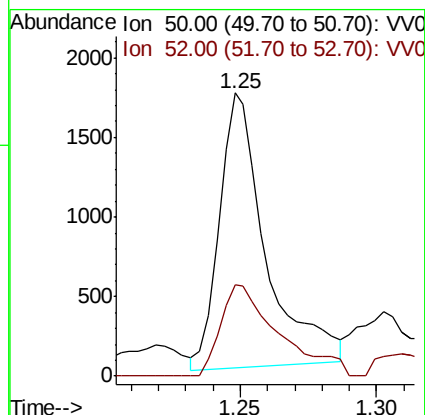
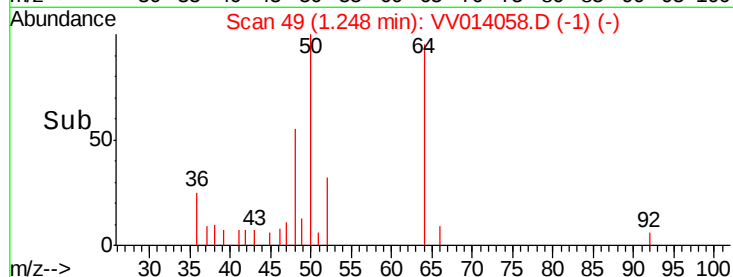
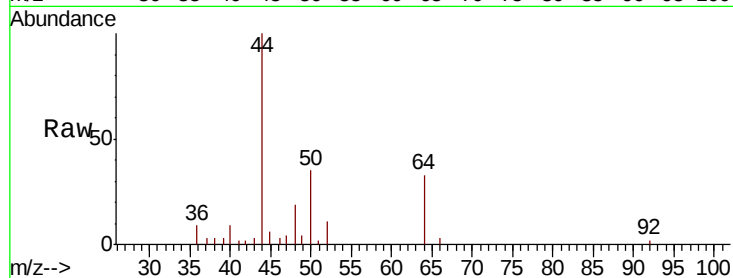
ClientSampleId :

Tot Ion: 50 Resp: 2056

Ion Ratio Lower Upper

50 100

52 32.2 23.9 44.3



#5

Vinyl chloride

Concen: 0.687 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV014058.D

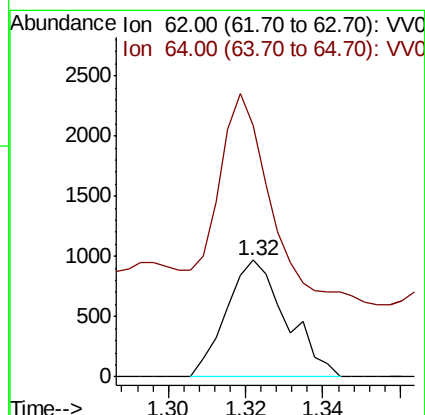
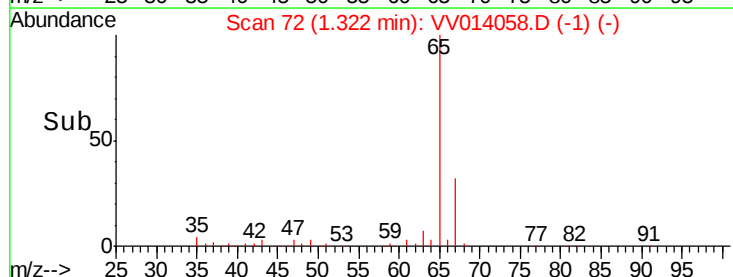
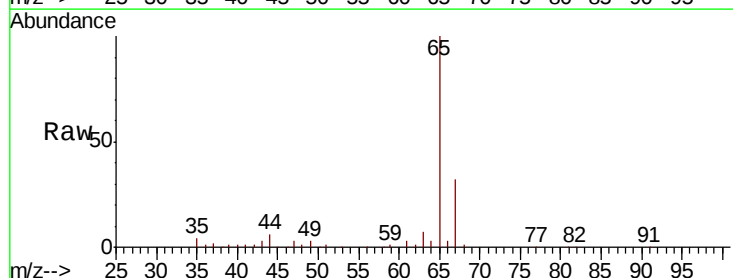
Acq: 13 Dec 2019 17:49

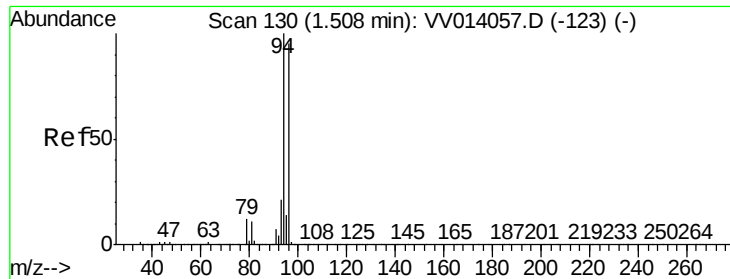
Tgt Ion: 62 Resp: 1046

Ion Ratio Lower Upper

62 100

64 215.8 23.0 42.8#





#6

Bromomethane

Concen: 1.359 ug/L

RT: 1.51 min Scan# 131

Delta R.T. 0.00 min

Lab File: VV014058.D

Acq: 13 Dec 2019 17:49

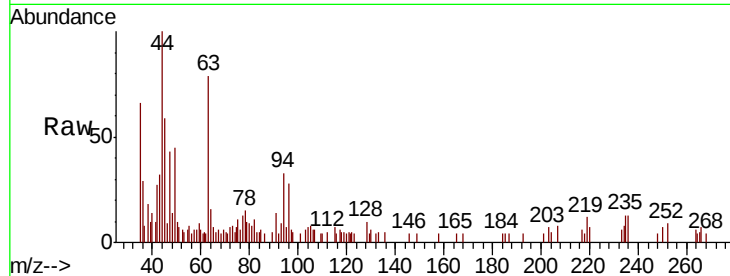
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 94 Resp: 1201

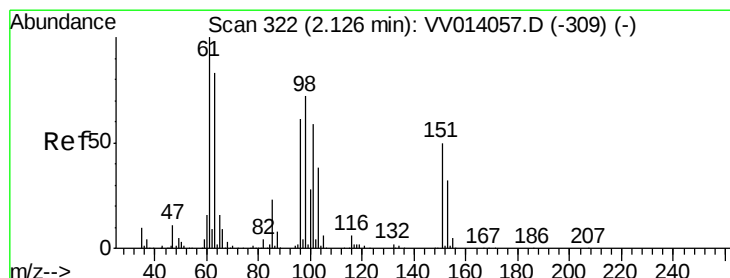
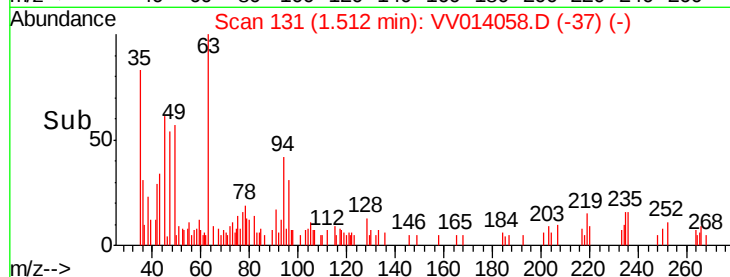
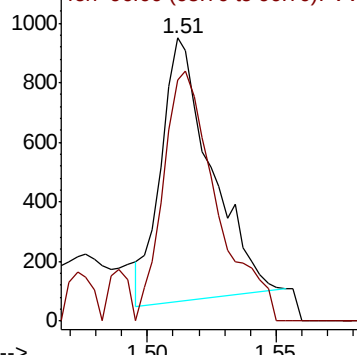
Ion Ratio Lower Upper

94 100

96 85.2 66.8 124.0



Abundance Ion 94.00 (93.70 to 94.70): VV0
Ion 96.00 (95.70 to 96.70): VV0



#10

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

Concen: 1.475 ug/L

RT: 2.12 min Scan# 320

Delta R.T. -0.01 min

Lab File: VV014058.D

Acq: 13 Dec 2019 17:49

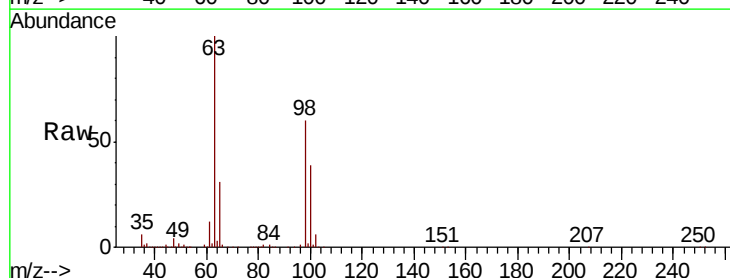
Tgt Ion:101 Resp: 1790

Ion Ratio Lower Upper

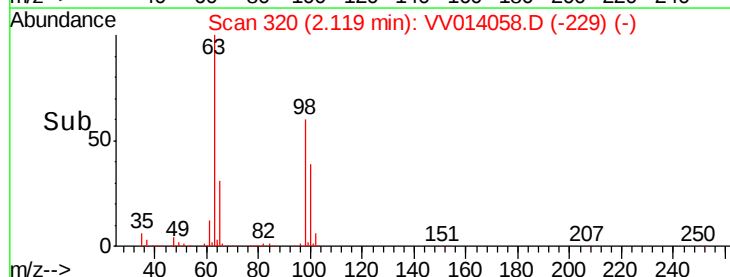
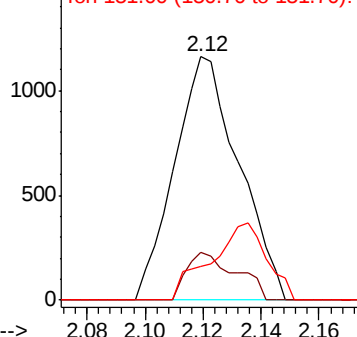
101 100

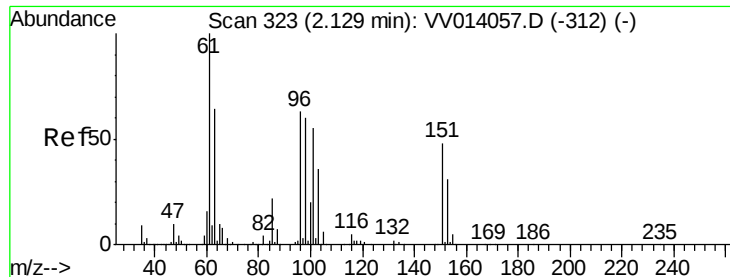
85 11.2 34.4 51.6#

151 27.5 72.2 108.2#



Abundance Ion 101.00 (100.70 to 101.70): V
Ion 85.00 (84.70 to 85.70): VV0
Ion 151.00 (150.70 to 151.70): V

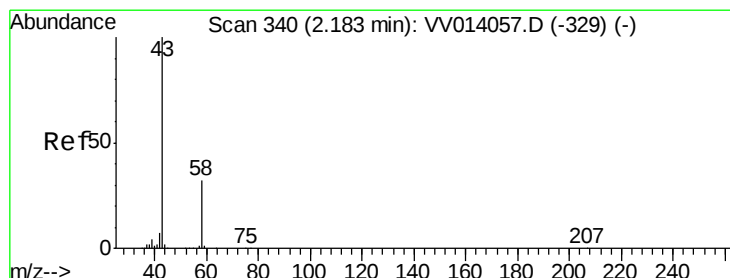
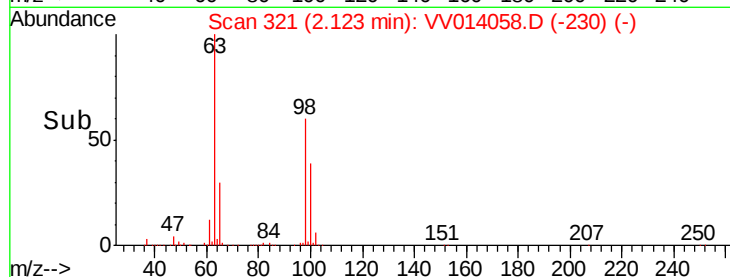
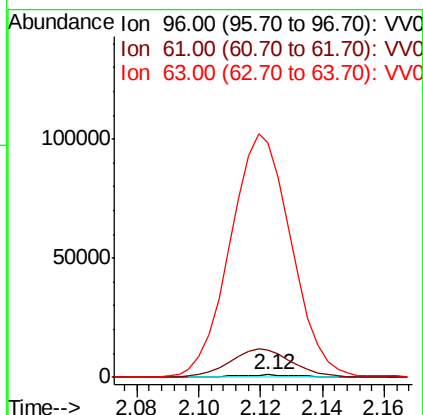
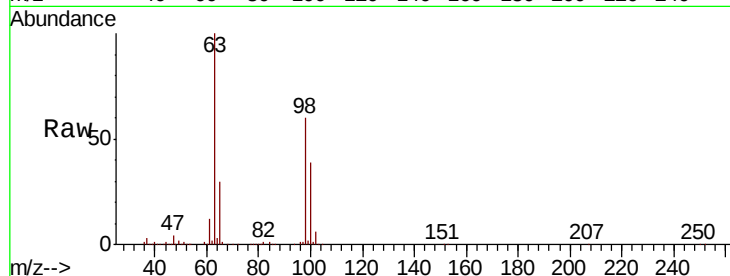




#12
 1,1-Dichloroethene
 Concen: 1.423 ug/L
 RT: 2.12 min Scan# 321
 Delta R.T. -0.01 min
 Lab File: VV014058.D
 Acq: 13 Dec 2019 17:49

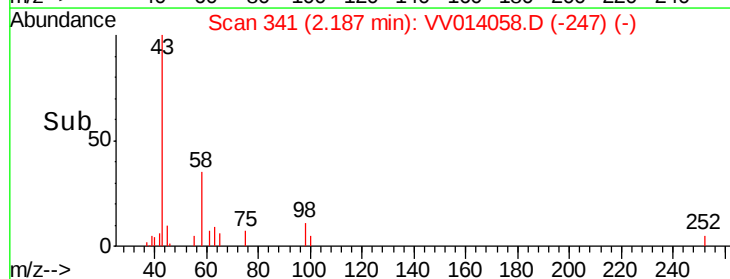
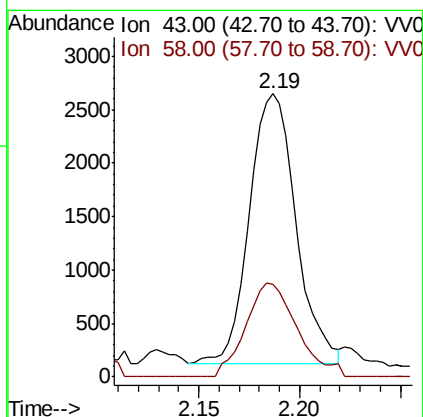
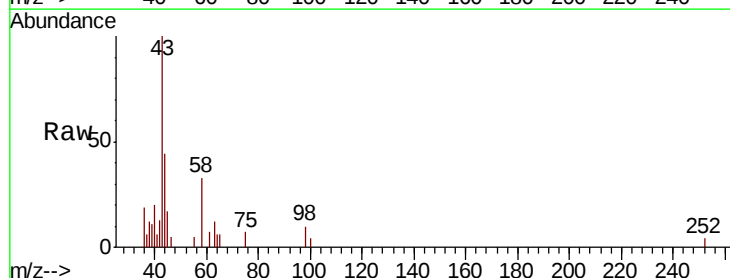
Instrument :
 MSVOA_V
 ClientSampled :

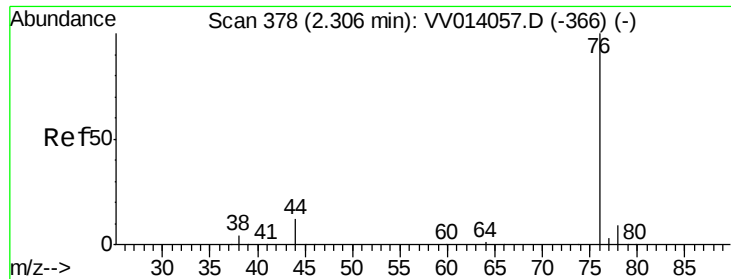
Tot Ion: 96 Resp: 1626
 Ion Ratio Lower Upper
 96 100
 61 1145.2 120.0 223.0#
 63 9831.1 98.3 182.7#



#13
 Acetone
 Concen: 4.762 ug/L
 RT: 2.19 min Scan# 341
 Delta R.T. 0.00 min
 Lab File: VV014058.D
 Acq: 13 Dec 2019 17:49

Tgt Ion: 43 Resp: 4067
 Ion Ratio Lower Upper
 43 100
 58 37.2 0.0 59.2





#14

Carbon disulfide

Concen: 0.779 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV014058.D

Acq: 13 Dec 2019 17:49

Instrument :

MSVOA_V

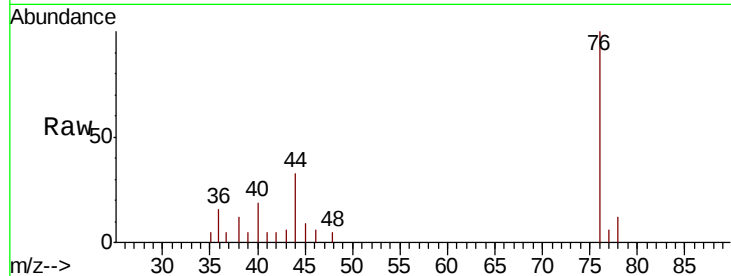
ClientSampleId :

Tot Ion: 76 Resp: 3010

Ion Ratio Lower Upper

76 100

78 11.9 7.1 10.7#



Abundance Ion 76.00 (75.70 to 76.70): VV014057.D (-366) (-)

Ion 78.00 (77.70 to 78.70): VV014058.D (-285) (-)

2.31

2000

1500

1000

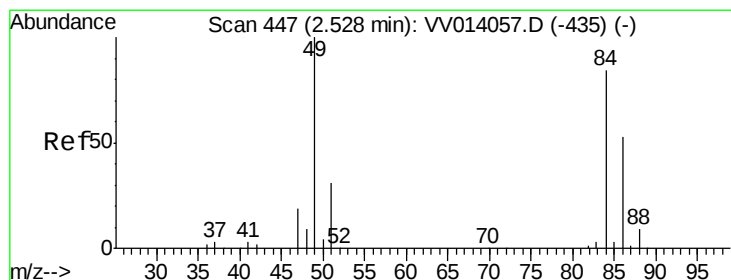
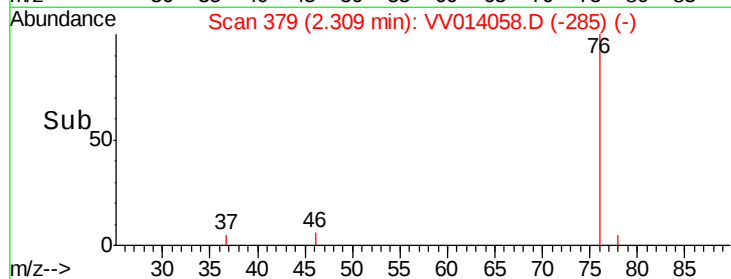
500

0

2.30

2.35

Time-->



#16

Methylene chloride

Concen: 0.915 ug/L

RT: 2.53 min Scan# 448

Delta R.T. 0.00 min

Lab File: VV014058.D

Acq: 13 Dec 2019 17:49

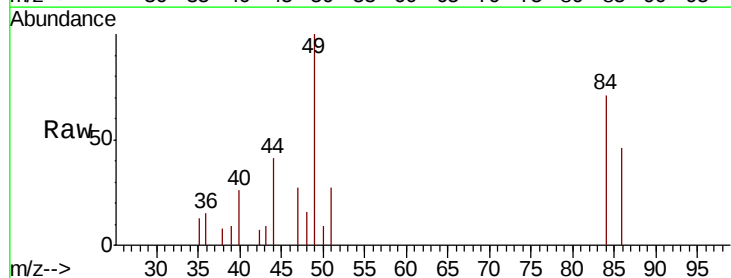
Tgt Ion: 84 Resp: 1586

Ion Ratio Lower Upper

84 100

86 65.2 45.7 84.9

49 141.0 76.6 142.2



Abundance Ion 84.00 (83.70 to 84.70): VV014057.D (-435) (-)

Ion 86.00 (85.70 to 86.70): VV014058.D (-354) (-)

Ion 49.00 (48.70 to 49.70): VV014058.D (-354) (-)

1500

1000

500

0

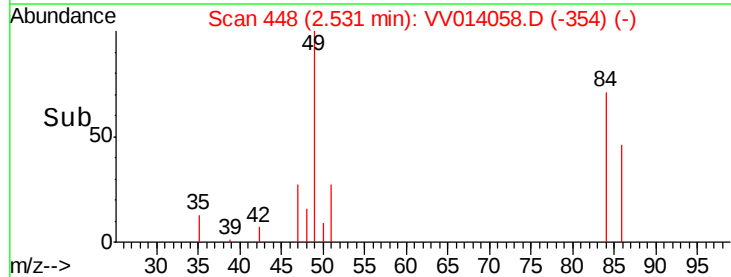
2.50

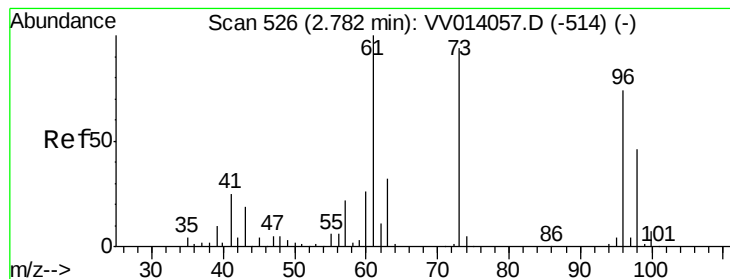
2.52

2.54

2.56

Time-->





#17

trans-1,2-Dichloroethene

Concen: 0.431 ug/L

RT: 2.79 min Scan# 529

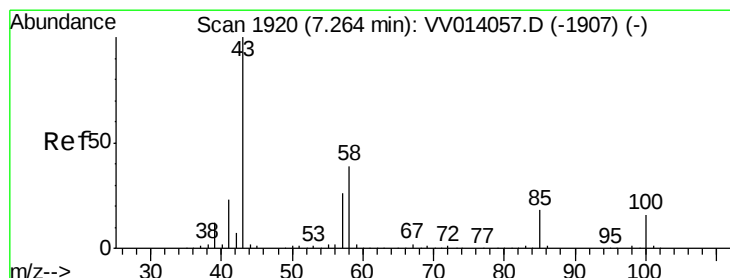
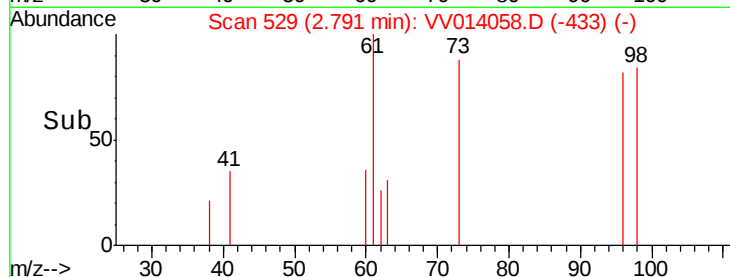
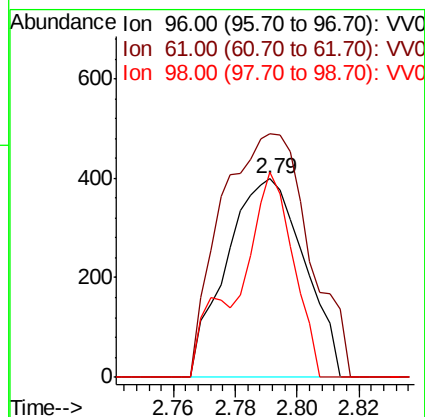
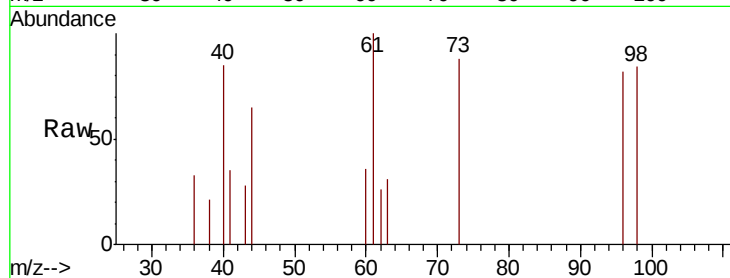
Delta R.T. 0.01 min

Lab File: VV014058.D

Acq: 13 Dec 2019 17:49

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 96 Resp: 696
Ion Ratio Lower Upper
96 100
61 122.6 90.6 168.3
98 103.5 44.2 82.2#



#40

4-Methyl-2-pentanone

Concen: 0.969 ug/L

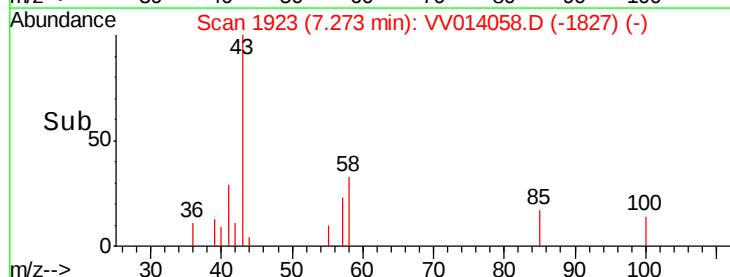
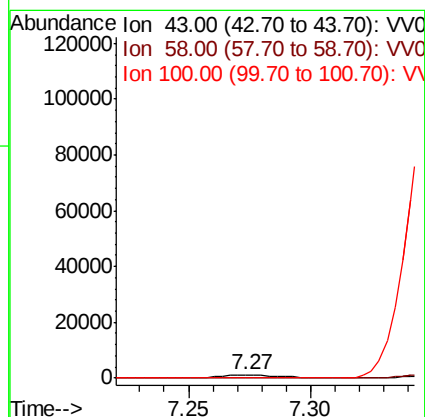
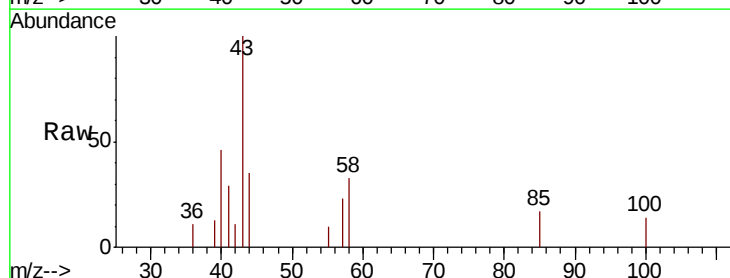
RT: 7.27 min Scan# 1923

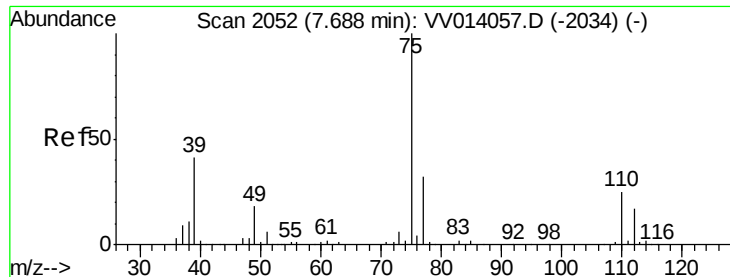
Delta R.T. 0.01 min

Lab File: VV014058.D

Acq: 13 Dec 2019 17:49

Tgt Ion: 43 Resp: 2165
Ion Ratio Lower Upper
43 100
58 36.3 33.4 50.2
100 10.1 15.0 22.4#





#44

trans-1,3-Dichloropropene

Concen: 0.781 ug/L

RT: 7.66 min Scan# 2042

Delta R.T. -0.03 min

Lab File: VV014058.D

Acq: 13 Dec 2019 17:49

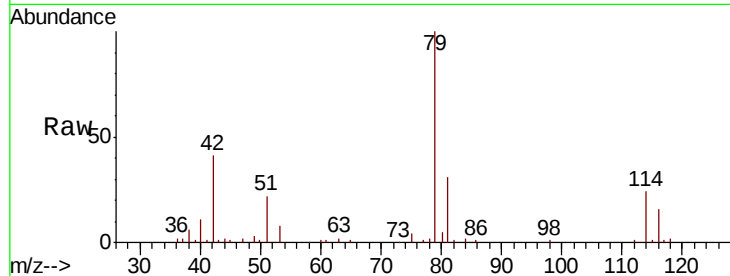
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 75 Resp: 2257

Ion Ratio Lower Upper

75 100

77 32.8 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VV014057.D (-2034) (-)

Ion 77.00 (76.70 to 77.70): VV014057.D (-2034) (-)

7.66

1500

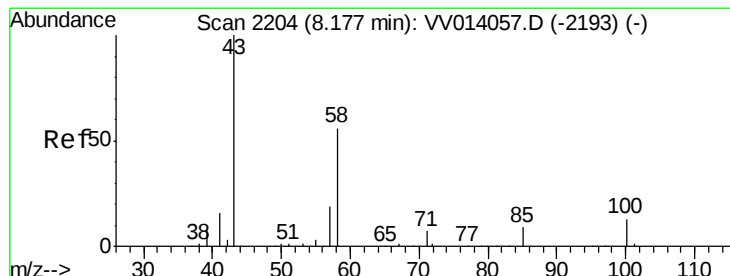
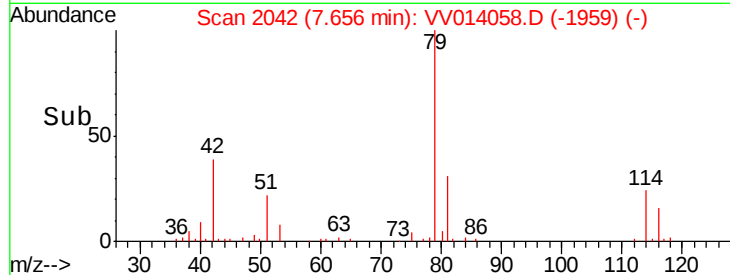
1000

500

0

7.62 7.64 7.66 7.68

Time-->



#48

2-Hexanone

Concen: 4.885 ug/L

RT: 8.18 min Scan# 2205

Delta R.T. 0.00 min

Lab File: VV014058.D

Acq: 13 Dec 2019 17:49

Tgt Ion: 43 Resp: 8231

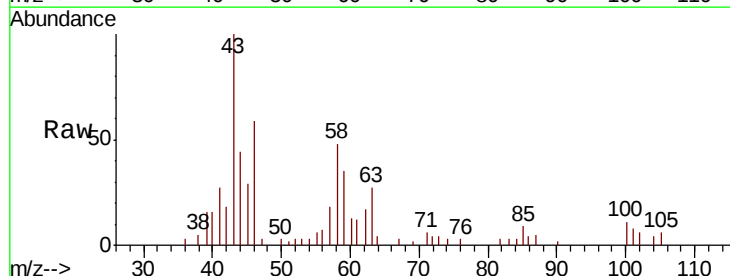
Ion Ratio Lower Upper

43 100

58 38.9 45.6 68.4#

57 0.0 17.0 25.6#

100 10.8 11.5 17.3#



Abundance Ion 43.00 (42.70 to 43.70): VV014057.D (-2193) (-)

Ion 58.00 (57.70 to 58.70): VV014057.D (-2193) (-)

Ion 57.00 (56.70 to 57.70): VV014057.D (-2193) (-)

Ion 100.00 (99.70 to 100.70): VV014057.D (-2193) (-)

10000

8000

6000

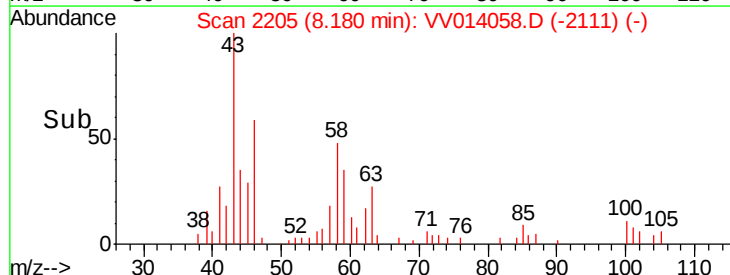
4000

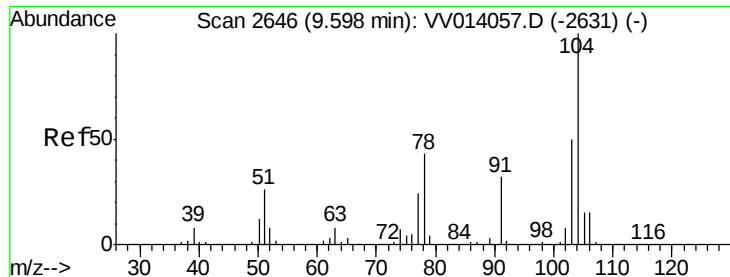
2000

0

8.15 8.18 8.20 8.25

Time-->





#55

Stvrene

Concen: 0.345 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. 0.00 min

Lab File: VV014058.D

Acq: 13 Dec 2019 17:49

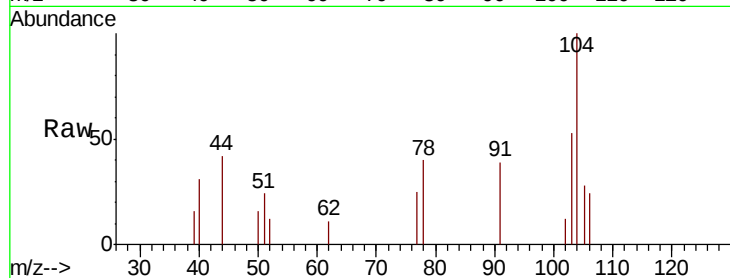
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:104 Resp: 1977

Ion Ratio Lower Upper

104 100

78 39.9 32.0 59.4



Abundance Ion 104.00 (103.70 to 104.70): VV014057.D (-2631) (-)

Ion 78.00 (77.70 to 78.70): VV014057.D (-2631) (-)

9.60

1200

1000

800

600

400

200

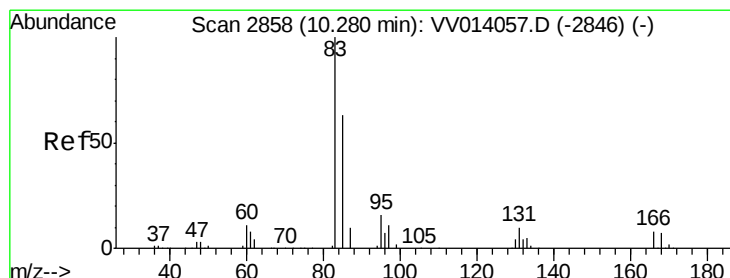
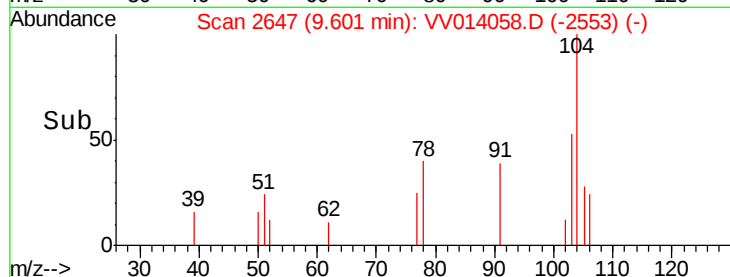
0

9.55

9.60

9.65

Time-->



#57

1,1,2,2-Tetrachloroethane

Concen: 0.602 ug/L

RT: 10.26 min Scan# 2852

Delta R.T. -0.02 min

Lab File: VV014058.D

Acq: 13 Dec 2019 17:49

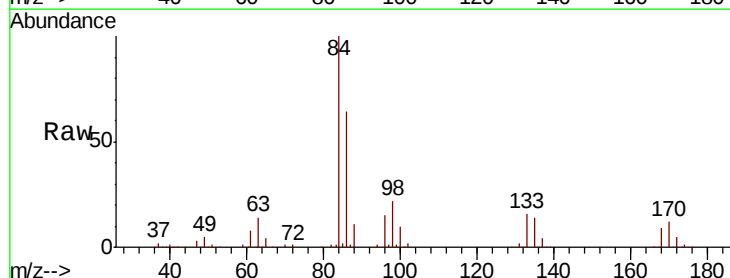
Tgt Ion: 83 Resp: 1734

Ion Ratio Lower Upper

83 100

85 182.5 44.6 82.8#

131 248.4 9.3 13.9#



Abundance Ion 83.00 (82.70 to 83.70): VV014057.D (-2846) (-)

Ion 85.00 (84.70 to 85.70): VV014057.D (-2846) (-)

Ion 131.00 (130.70 to 131.70): VV014057.D (-2846) (-)

3000

2000

1000

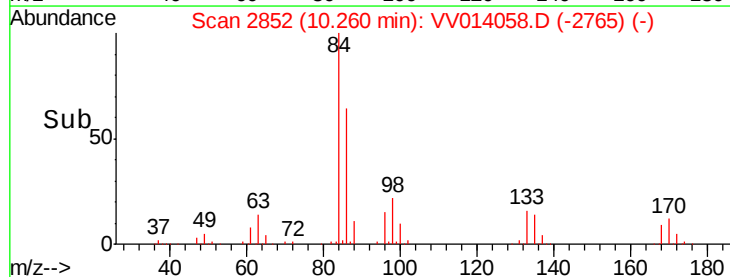
0

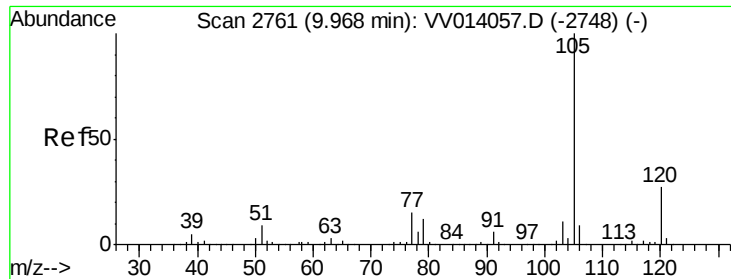
10.25

10.26

10.30

Time-->





#60

Isopropylbenzene

Concen: 0.254 ug/L

RT: 9.97 min Scan# 2762

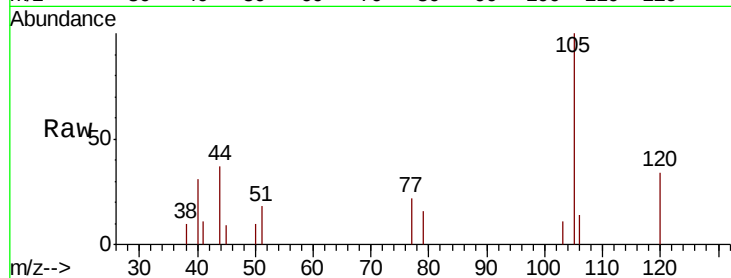
Delta R.T. 0.00 min

Lab File: VV014058.D

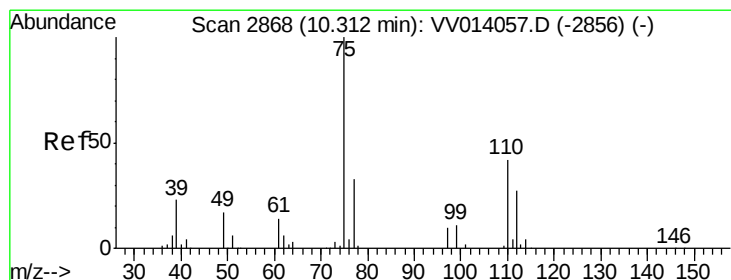
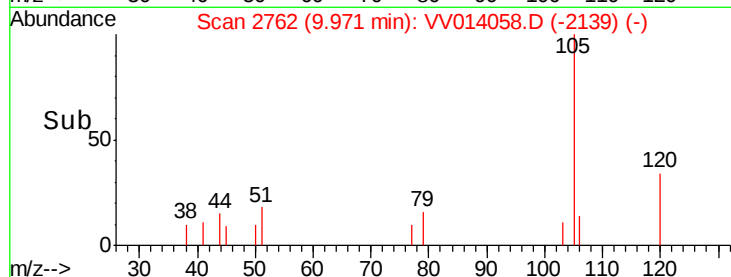
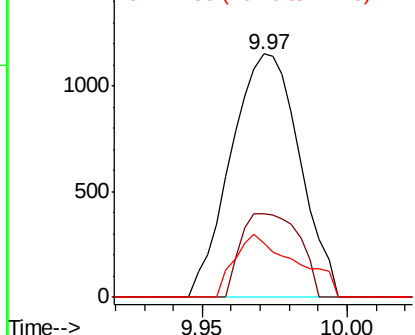
Acq: 13 Dec 2019 17:49

Instrument :
MSVOA_V
ClientSampled :

Tot Ion:	105	Resp:	1889
Ion	Ratio	Lower	Upper
105	100		
120	29.3	21.4	32.0
77	20.5	11.6	17.4#



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: 0.476 ug/L

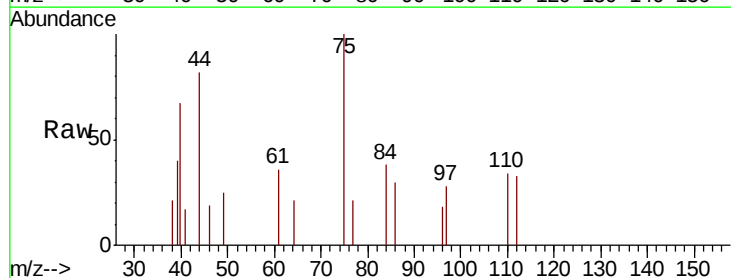
RT: 10.32 min Scan# 2870

Delta R.T. 0.01 min

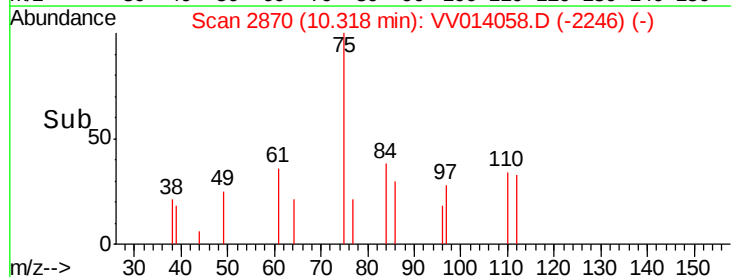
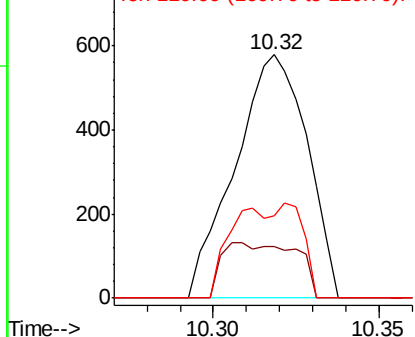
Lab File: VV014058.D

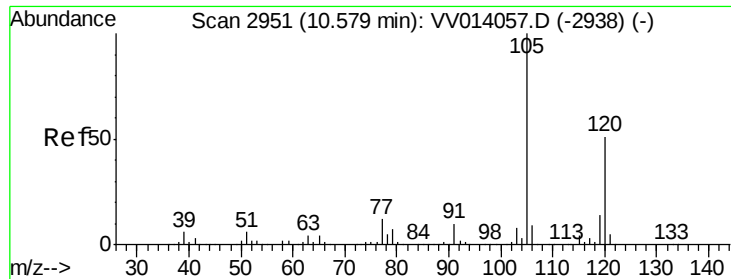
Acq: 13 Dec 2019 17:49

Tgt Ion:	75	Resp:	877
Ion	Ratio	Lower	Upper
75	100		
77	0.0	25.7	38.5#
110	17.2	34.2	51.4#



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: 0.229 ug/L

RT: 10.58 min Scan# 2950

Delta R.T. -0.00 min

Lab File: VV014058.D

Acq: 13 Dec 2019 17:49

Instrument :

MSVOA_V

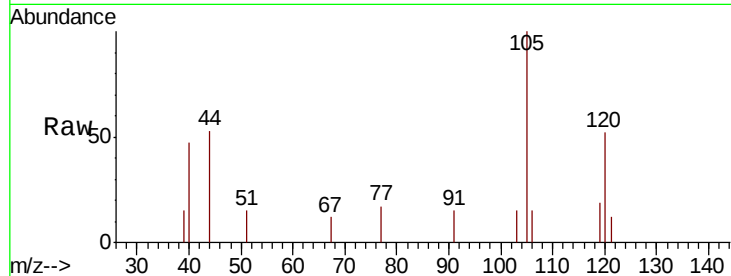
ClientSampleId :

Tot Ion:105 Resp: 1470

Ion Ratio Lower Upper

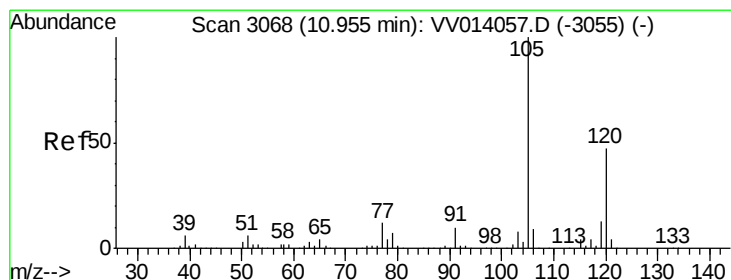
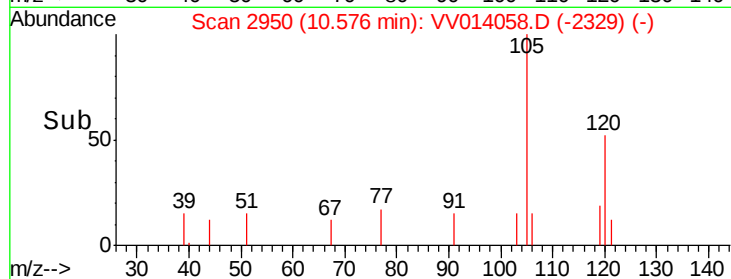
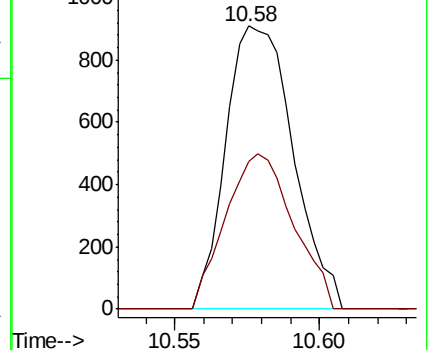
105 100

120 55.2 39.2 58.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 0.292 ug/L

RT: 10.95 min Scan# 3068

Delta R.T. 0.00 min

Lab File: VV014058.D

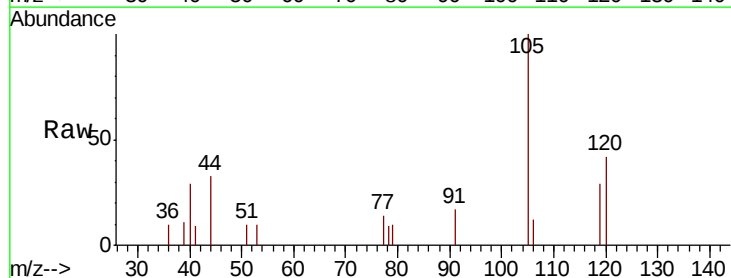
Acq: 13 Dec 2019 17:49

Tgt Ion:105 Resp: 1850

Ion Ratio Lower Upper

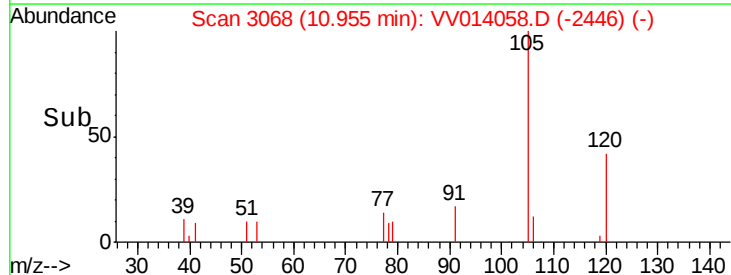
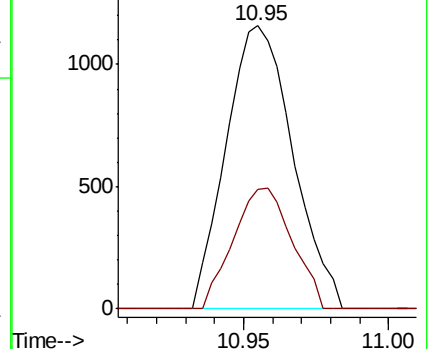
105 100

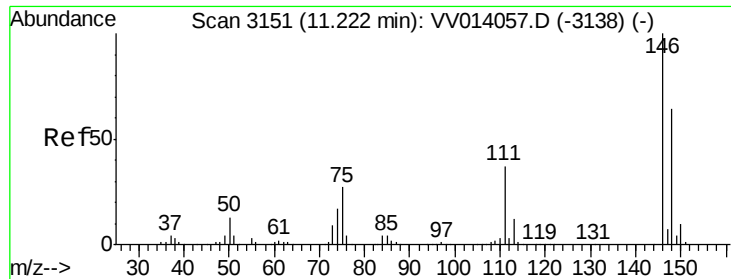
120 37.7 36.7 55.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

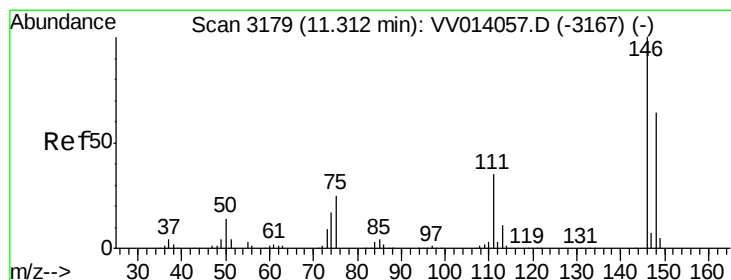
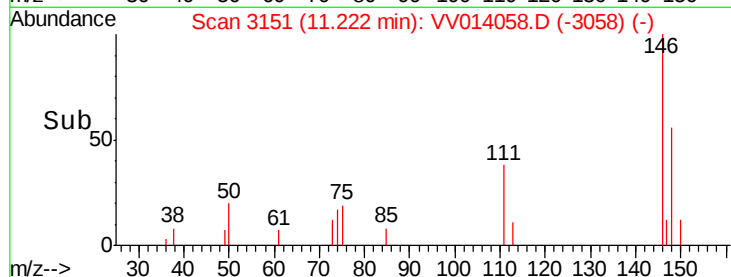
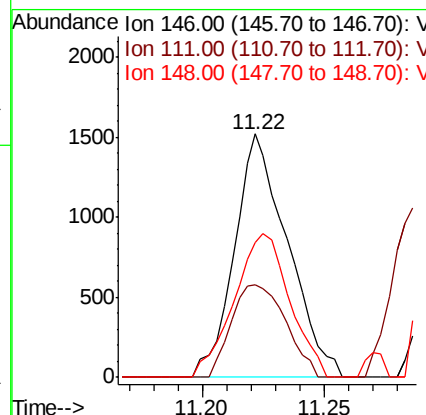
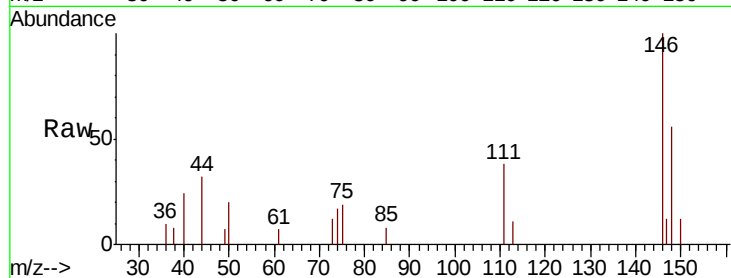




#64
 1,3-Dichlorobenzene
 Concen: 0.613 ug/L
 RT: 11.22 min Scan# 3151
 Delta R.T. 0.00 min
 Lab File: VV014058.D
 Acq: 13 Dec 2019 17:49

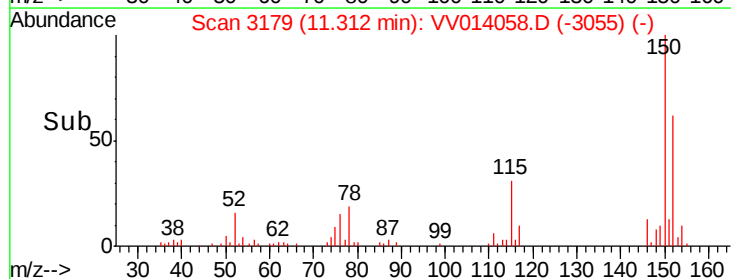
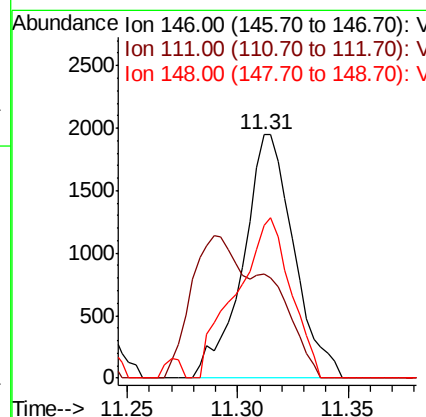
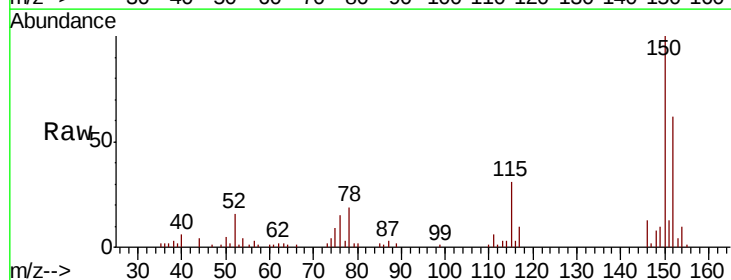
Instrument :
 MSVOA_V
 ClientSampleId :

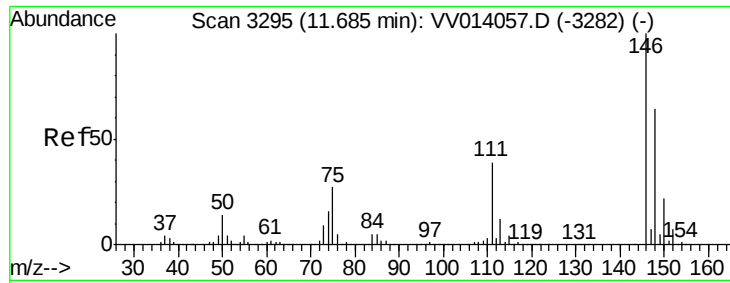
Tot Ion:146 Resp: 2295
 Ion Ratio Lower Upper
 146 100
 111 38.0 26.8 49.8
 148 55.5 44.6 82.8



#65
 1,4-Dichlorobenzene
 Concen: 0.823 ug/L
 RT: 11.31 min Scan# 3179
 Delta R.T. 0.00 min
 Lab File: VV014058.D
 Acq: 13 Dec 2019 17:49

Tgt Ion:146 Resp: 3116
 Ion Ratio Lower Upper
 146 100
 111 42.7 25.8 47.8
 148 62.6 45.2 84.0

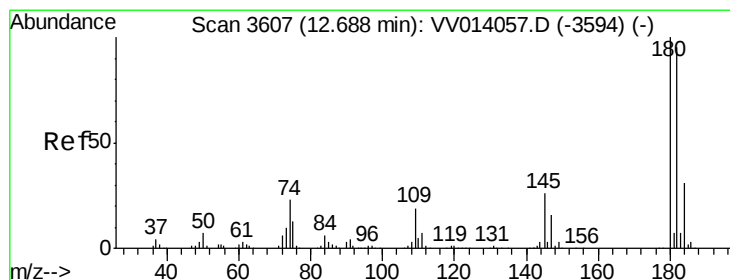
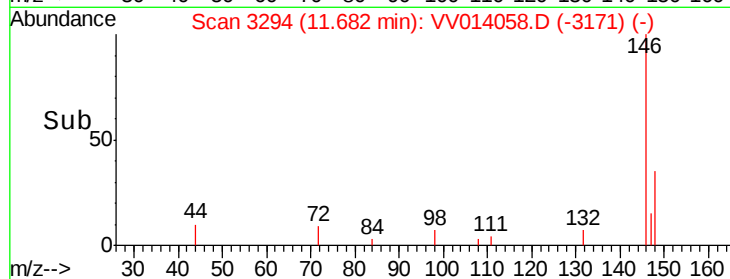
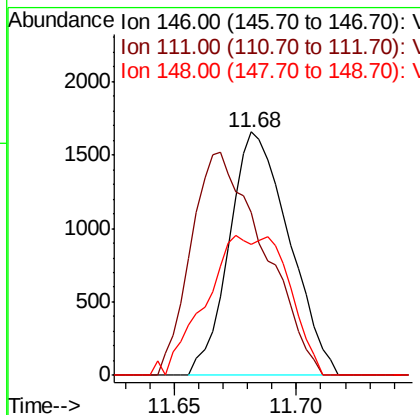
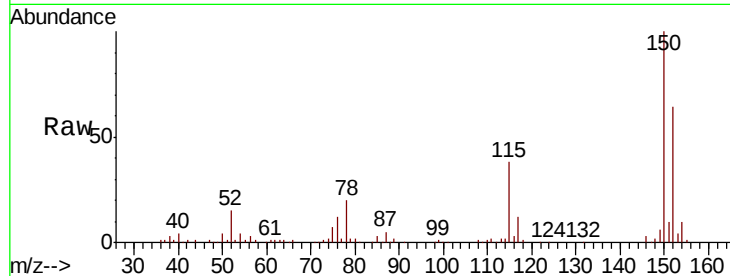




#67
 1,2-Dichlorobenzene
 Concen: 0.738 ug/L
 RT: 11.68 min Scan# 3294
 Delta R.T. -0.00 min
 Lab File: VV014058.D
 Acq: 13 Dec 2019 17:49

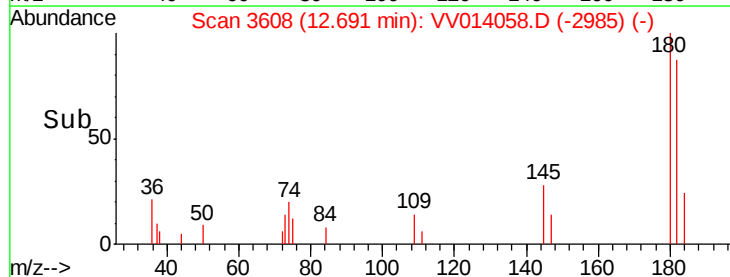
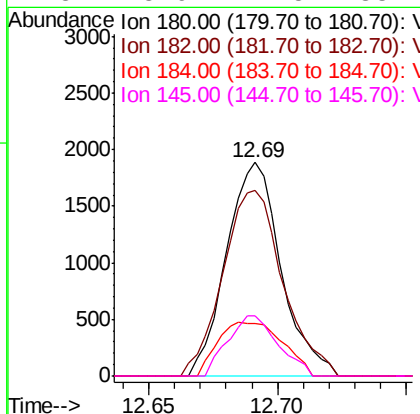
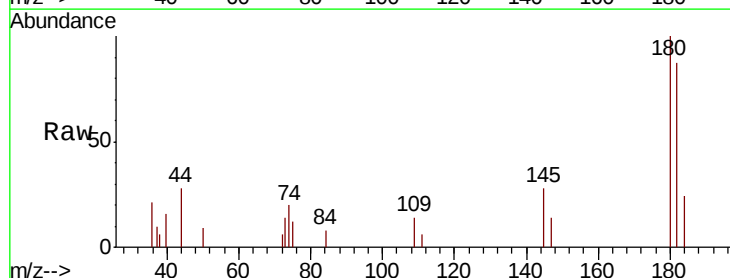
Instrument :
 MSVOA_V
 ClientSampleId :

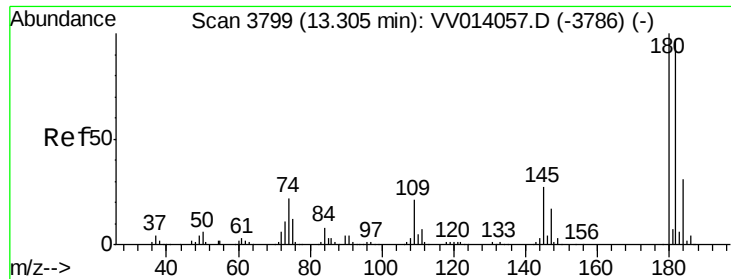
Tot Ion:146 Resp: 2821
 Ion Ratio Lower Upper
 146 100
 111 66.9 32.2 48.2#
 148 53.6 53.2 79.8



#69
 1,3,5-Trichlorobenzene
 Concen: 0.918 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV014058.D
 Acq: 13 Dec 2019 17:49

Tgt Ion:180 Resp: 2788
 Ion Ratio Lower Upper
 180 100
 182 95.4 76.5 114.7
 184 29.9 24.6 36.8
 145 25.9 22.5 33.7

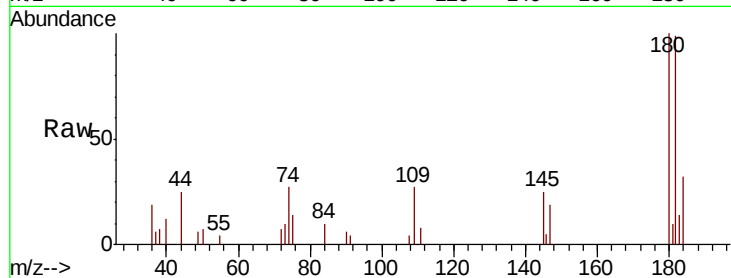




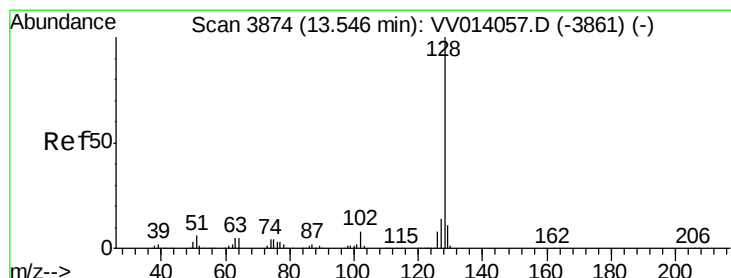
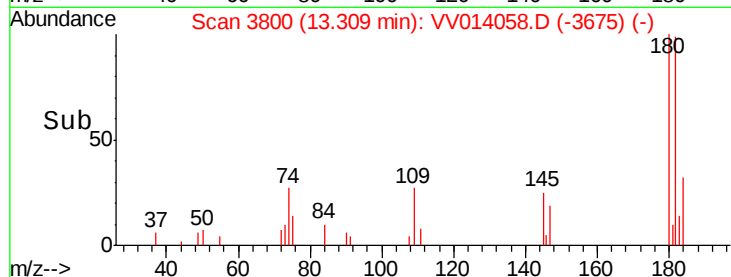
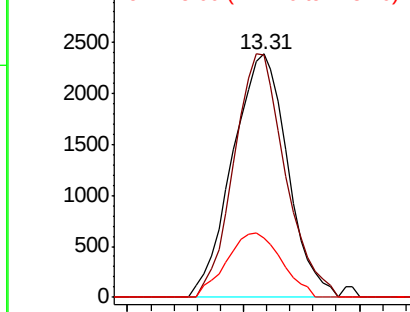
#70
1,2,4-trichlorobenzene
Concen: 1.495 ug/L
RT: 13.31 min Scan# 3800
Delta R.T. 0.00 min
Lab File: VV014058.D
Acq: 13 Dec 2019 17:49

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:180 Resp: 3935
Ion Ratio Lower Upper
180 100
182 93.1 76.5 114.7
145 26.4 23.3 34.9

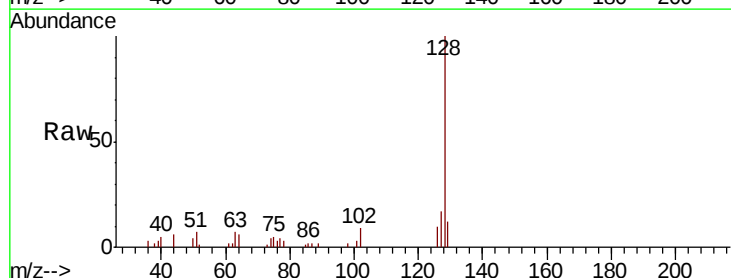


Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

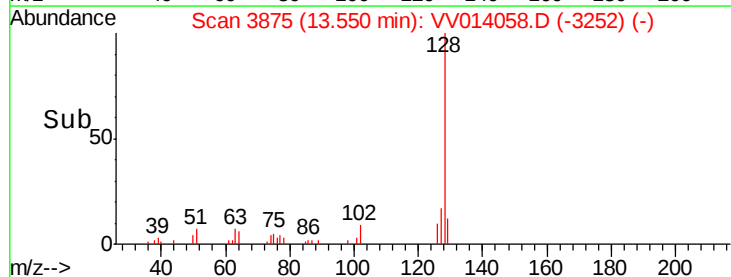
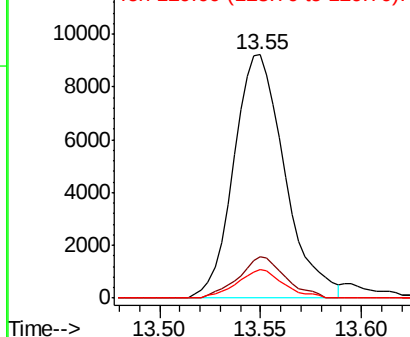


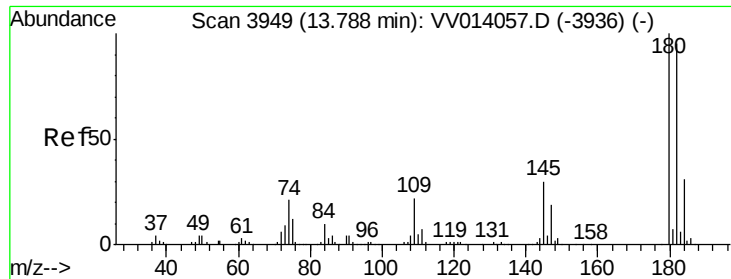
#71
Naphthalene
Concen: 2.450 ug/L
RT: 13.55 min Scan# 3875
Delta R.T. 0.00 min
Lab File: VV014058.D
Acq: 13 Dec 2019 17:49

Tgt Ion:128 Resp: 16345
Ion Ratio Lower Upper
128 100
127 15.6 10.6 15.8
129 10.5 8.6 12.8



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

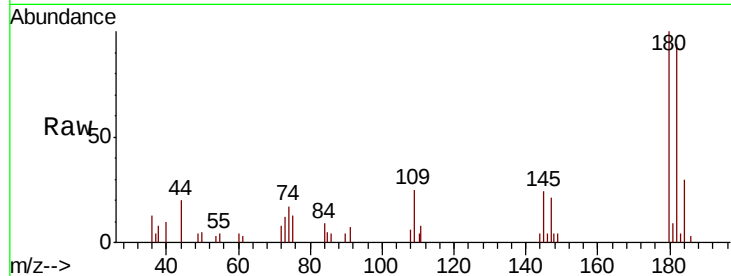




#72
 1,2,3-Trichlorobenzene
 Concen: 1.930 ug/L
 RT: 13.79 min Scan# 3950
 Delta R.T. 0.00 min
 Lab File: VV014058.D
 Acq: 13 Dec 2019 17:49

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:180 Resp: 5112
 Ion Ratio Lower Upper
 180 100
 182 96.3 77.2 115.8
 145 26.7 24.6 36.8



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

