

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV120219\
 Data File : VV013880.D
 Acq On : 02 Dec 2019 18:50
 Operator : SY/MD
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Dec 03 03:06:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM120219WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Dec 03 02:59:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	687543	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	635144	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	341151	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	189002	47.53	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	95.06%
7) Chloroethane-d5	1.57	69	198473	47.82	ug/L	-0.01
Spiked Amount	50.000	Range	70 - 130	Recovery	=	95.64%
11) 1,1-Dichloroethene-d2	2.13	63	430641	48.97	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.94%
21) 2-Butanone-d5	3.92	46	295169	105.46	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	105.46%
24) Chloroform-d	4.39	84	425271	50.93	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.86%
26) 1,2-Dichloroethane-d4	5.07	65	261233	49.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.74%
32) Benzene-d6	5.09	84	847396	51.49	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.98%
36) 1,2-Dichloropropane-d6	6.11	67	248559	50.31	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.62%
41) Toluene-d8	7.35	98	768702	51.23	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.46%
43) trans-1,3-Dichloropropene-	7.66	79	116878	48.62	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.24%
47) 2-Hexanone-d5	8.13	63	178466	96.75	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	96.75%
57) 1,1,2,2-Tetrachloroethane-	10.25	84	339260	47.43	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	94.86%
64) 1,2-Dichlorobenzene-d4	11.67	152	330824	49.37	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.74%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	289820	47.342	ug/L	99
3) Chloromethane	1.25	50	286653	51.217	ug/L	99
5) Vinyl chloride	1.32	62	280299	48.019	ug/L	100
6) Bromomethane	1.51	94	152094	43.095	ug/L	97
8) Chloroethane	1.59	64	192669	49.606	ug/L	99
9) Trichlorofluoromethane	1.76	101	436119	48.037	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	242639	46.924	ug/L	99
12) 1,1-Dichloroethene	2.14	96	241620	48.374	ug/L	92
13) Acetone	2.18	43	277448	67.645	ug/L	95
14) Carbon disulfide	2.31	76	608352	46.185	ug/L	100
15) Methyl Acetate	2.45	43	247928	49.048	ug/L	100
16) Methylene chloride	2.53	84	254252	48.881	ug/L	98
17) trans-1,2-Dichloroethene	2.78	96	229798	47.036	ug/L	96
18) Methyl tert-butyl Ether	2.80	73	712178	50.231	ug/L	99
19) 1,1-Dichloroethane	3.22	63	434688	49.384	ug/L	100
20) cis-1,2-Dichloroethene	3.96	96	258923	48.939	ug/L	99
22) 2-Butanone	4.00	43	348901	88.626	ug/L	95

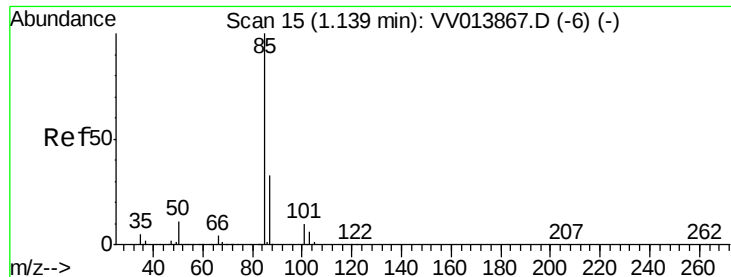
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV120219\
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 Quant Title : VOC Analysis
 QLast Update : Tue Dec 03 02:59:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	142804	48.854	uq/L	97
25) Chloroform	4.42	83	444429	47.229	uq/L	97
27) 1,2-Dichloroethane	5.17	62	338957	49.989	uq/L	99
29) Cyclohexane	4.72	56	380074	51.219	uq/L	100
30) 1,1,1-Trichloroethane	4.65	97	379923	49.549	uq/L	99
31) Carbon tetrachloride	4.87	117	344332	50.272	uq/L	99
33) Benzene	5.14	78	978929	51.755	uq/L	100
34) Trichloroethene	5.96	95	281905	55.569	uq/L	95
35) Methylcyclohexane	6.17	83	377211	49.557	uq/L	99
37) 1,2-Dichloropropane	6.22	63	234524	51.230	uq/L	100
38) Bromodichloromethane	6.55	83	312881	48.193	uq/L	99
39) cis-1,3-Dichloropropene	7.06	75	361504	50.162	uq/L	97
40) 4-Methyl-2-pentanone	7.26	43	613280	103.023	uq/L	98
42) Toluene	7.43	91	995866	51.029	uq/L	100
44) trans-1,3-Dichloropropene	7.69	75	318431	48.794	uq/L	100
45) 1,1,2-Trichloroethane	7.88	97	232496	51.165	uq/L	99
46) Tetrachloroethene	8.01	164	234109	51.140	uq/L	98
48) 2-Hexanone	8.18	43	468510	98.386	uq/L	96
49) Dibromochloromethane	8.29	129	277081	49.883	uq/L	100
50) 1,2-Dibromoethane	8.39	107	249391	49.821	uq/L	99
51) Chlorobenzene	8.92	112	654010	48.575	uq/L	98
52) Ethylbenzene	9.05	91	1077352	50.077	uq/L	99
53) m,p-Xylene	9.18	106	423277	50.877	uq/L	99
54) o-xylene	9.58	106	413760	50.865	uq/L	99
55) Styrene	9.60	104	710182	50.603	uq/L	99
56) Isopropylbenzene	9.97	105	1079690	49.380	uq/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.28	83	343556	46.442	uq/L	97
59) 1,2,3-Trichloropropane	10.31	75	292328	47.188	uq/L	99
61) Bromoform	9.77	173	217708	52.168	uq/L	97
62) 1,3-Dichlorobenzene	11.22	146	539711	48.214	uq/L	100
63) 1,4-Dichlorobenzene	11.31	146	547885	47.344	uq/L	98
65) 1,2-Dichlorobenzene	11.68	146	536681	47.930	uq/L	100
66) 1,2-Dibromo-3-chloropropan	12.47	75	77266	49.652	uq/L	95
67) 1,3,5-Trichlorobenzene	12.69	180	398492	43.837	uq/L	100
68) 1,2,4-trichlorobenzene	13.31	180	335680	40.925	uq/L	99
69) Naphthalene	13.55	128	789562	36.661	uq/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	359143	41.869	uq/L	99

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



#2

Dichlorodifluoromethane

Concen: 47.342 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV013880.D

Acq: 02 Dec 2019 18:50

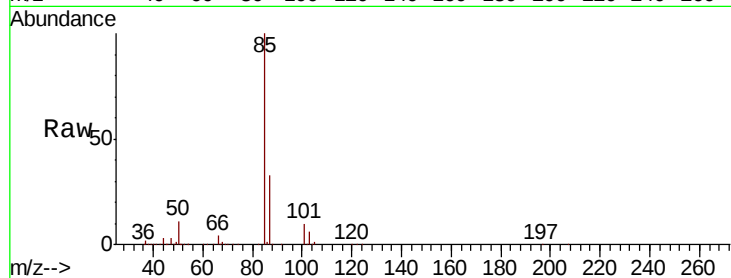
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 85 Resp: 289820

Ion Ratio Lower Upper

85 100

87 32.8 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VV013867.D (-6) (-)

Ion 87.00 (86.70 to 87.70): VV013867.D (-6) (-)

1.14

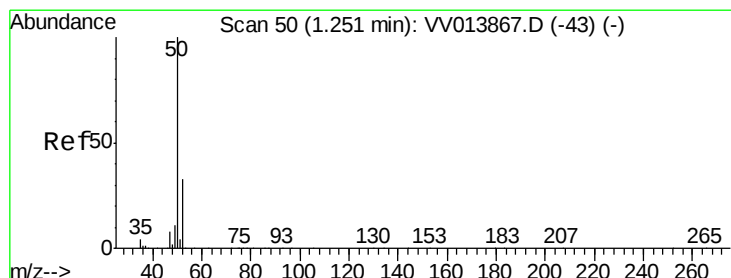
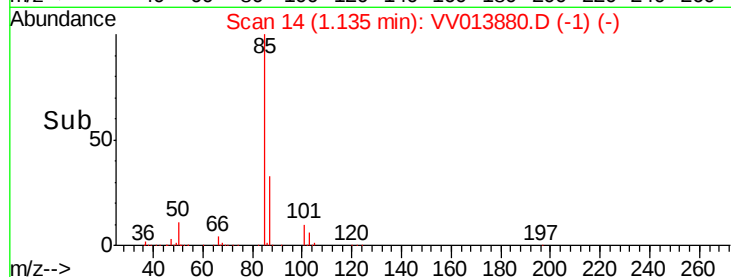
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: 51.217 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV013880.D

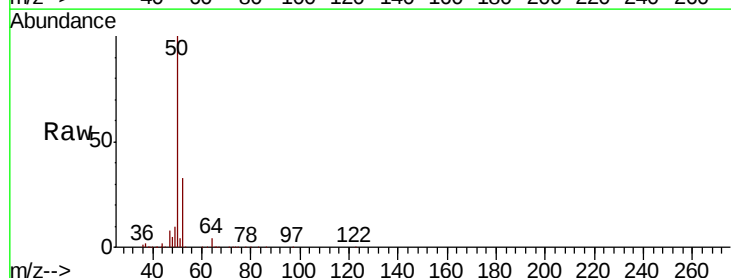
Acq: 02 Dec 2019 18:50

Tgt Ion: 50 Resp: 286653

Ion Ratio Lower Upper

50 100

52 32.5 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VV013867.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV013867.D (-43) (-)

1.25

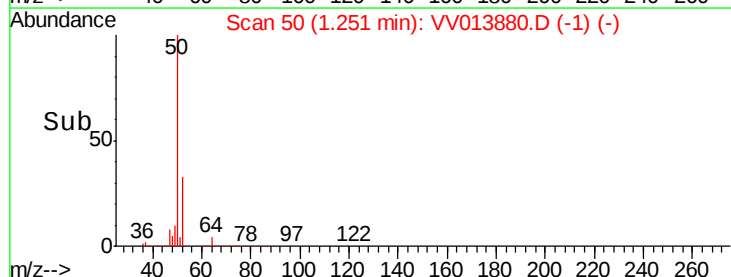
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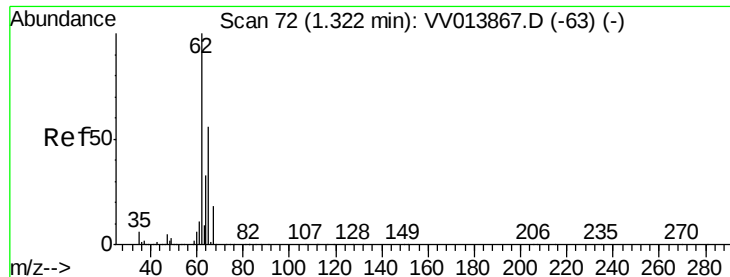
200000

100000

0

Time-->





#5

Vinyl chloride

Concen: 48.019 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV013880.D

Acq: 02 Dec 2019 18:50

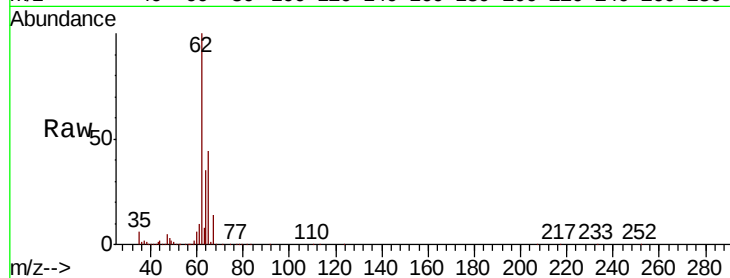
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 62 Resp: 280299

Ion Ratio Lower Upper

62 100

64 34.7 24.1 44.8



Abundance Ion 62.00 (61.70 to 62.70): VV013867.D (-63) (-)

Ion 64.00 (63.70 to 64.70): VV013867.D (-63) (-)

1.32

300000

250000

200000

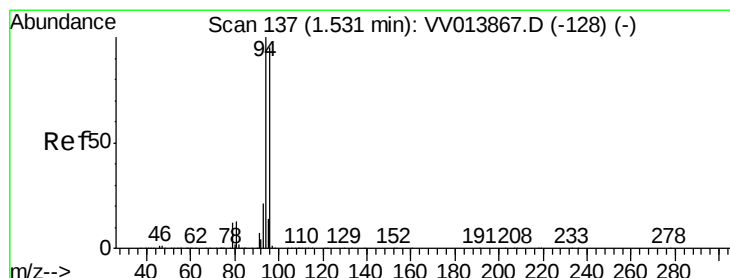
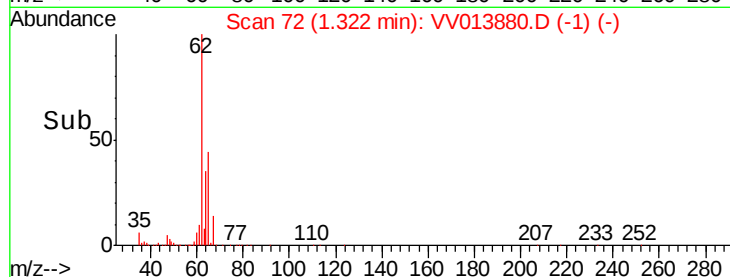
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 43.095 ug/L

RT: 1.51 min Scan# 132

Delta R.T. -0.02 min

Lab File: VV013880.D

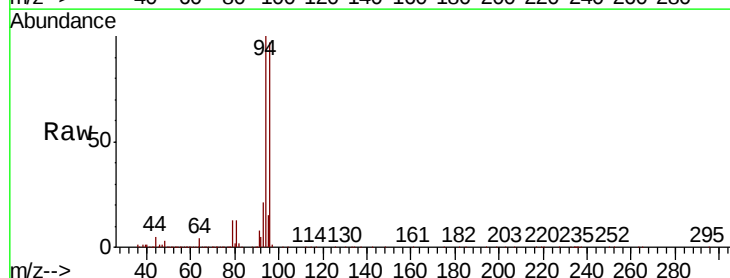
Acq: 02 Dec 2019 18:50

Tgt Ion: 94 Resp: 152094

Ion Ratio Lower Upper

94 100

96 97.1 66.2 123.0



Abundance Ion 94.00 (93.70 to 94.70): VV013867.D (-128) (-)

Ion 96.00 (95.70 to 96.70): VV013867.D (-128) (-)

1.51

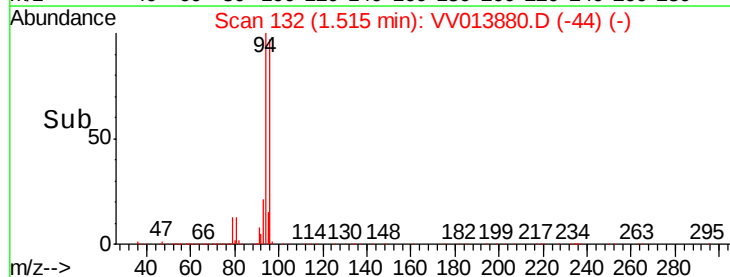
150000

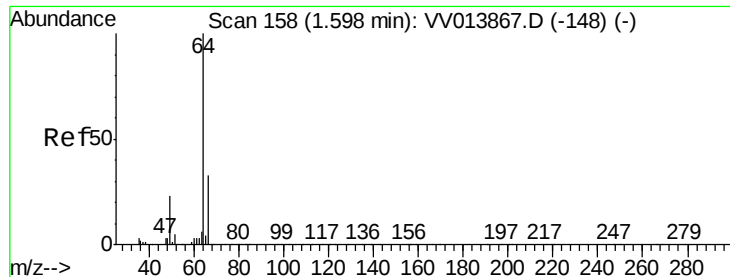
100000

50000

0

Time-->





#8

Chloroethane

Concen: 49.606 ug/L

RT: 1.59 min Scan# 154

Delta R.T. -0.01 min

Lab File: VV013880.D

Acq: 02 Dec 2019 18:50

Instrument :

MSVOA_V

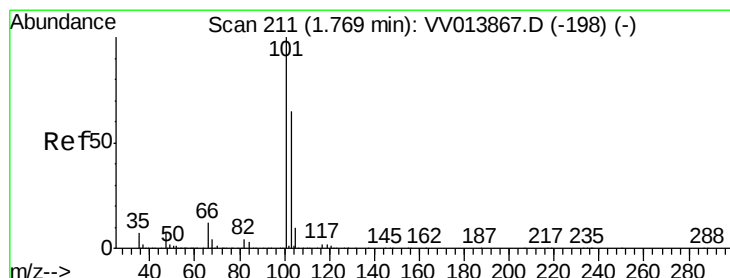
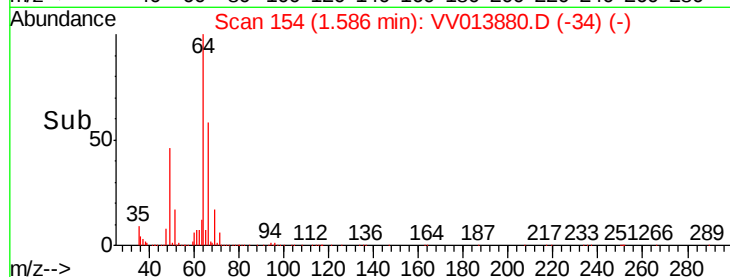
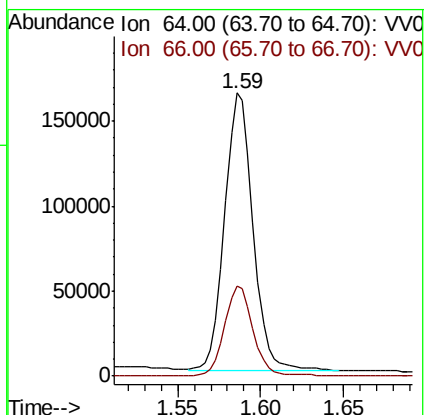
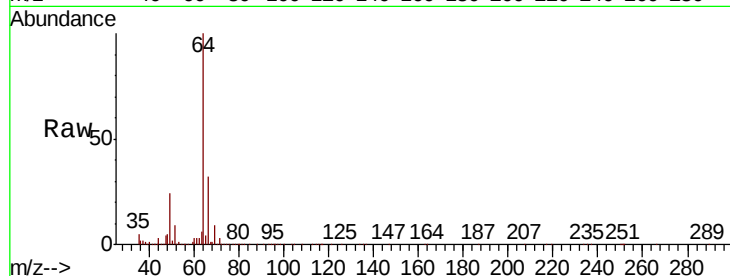
ClientSampleId :

Tot Ion: 64 Resp: 192669

Ion Ratio Lower Upper

64 100

66 32.0 22.7 42.1



#9

Trichlorofluoromethane

Concen: 48.037 ug/L

RT: 1.76 min Scan# 209

Delta R.T. -0.01 min

Lab File: VV013880.D

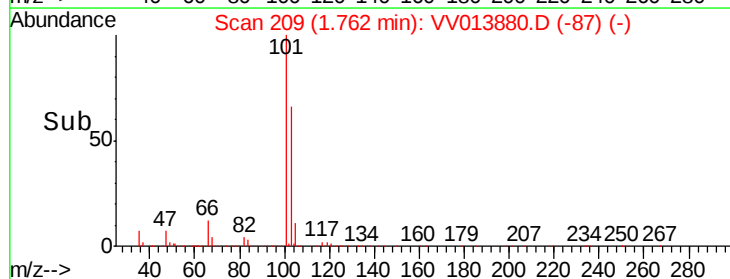
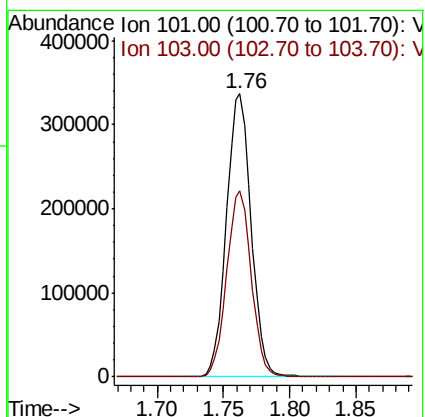
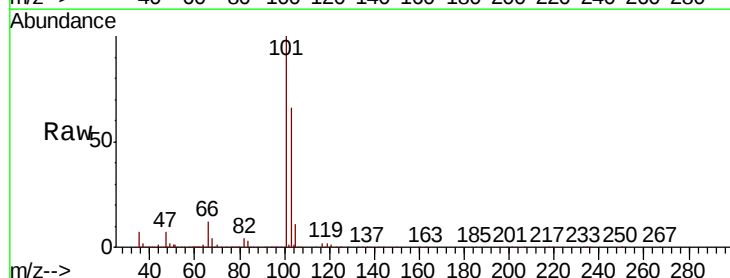
Acq: 02 Dec 2019 18:50

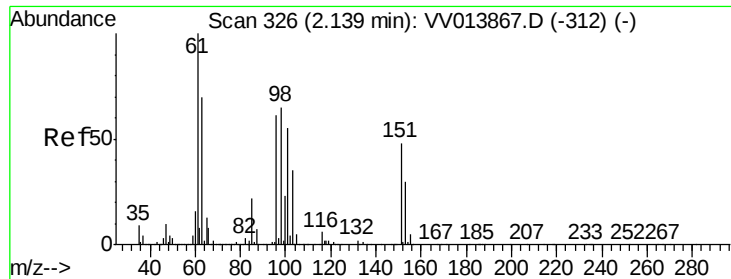
Tgt Ion: 101 Resp: 436119

Ion Ratio Lower Upper

101 100

103 65.5 51.9 77.9





#10

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

Concen: 46.924 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.01 min

Lab File: VV013880.D

Acq: 02 Dec 2019 18:50

Instrument :

MSVOA_V

ClientSampleId :

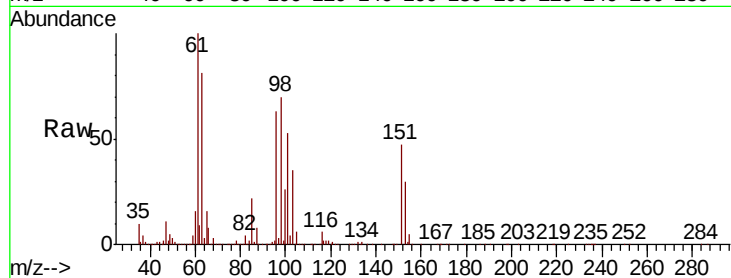
Tot Ion:101 Resp: 242639

Ion Ratio Lower Upper

101 100

85 41.2 32.5 48.7

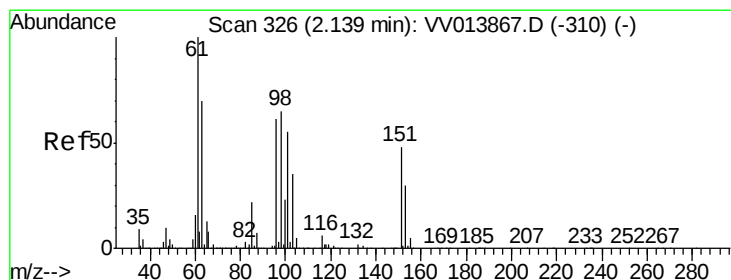
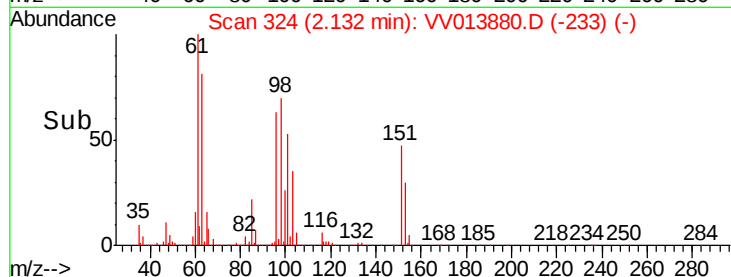
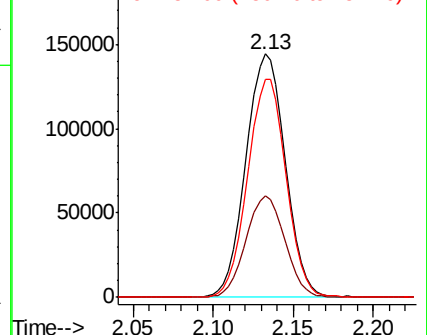
151 87.8 69.8 104.6



Abundance Ion 101.00 (100.70 to 101.70): VV013880.D (-233) (-)

Ion 85.00 (84.70 to 85.70): VV013880.D (-233) (-)

Ion 151.00 (150.70 to 151.70): VV013880.D (-233) (-)



#12

1,1-Dichloroethene

Concen: 48.374 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV013880.D

Acq: 02 Dec 2019 18:50

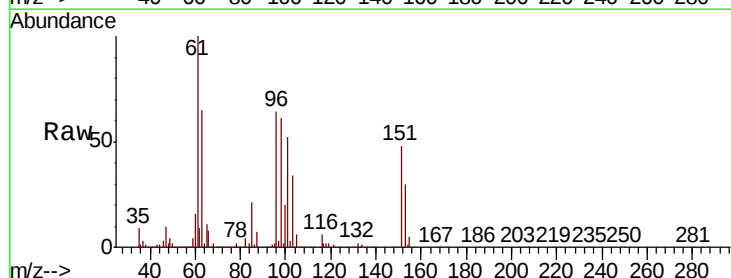
Tgt Ion: 96 Resp: 241620

Ion Ratio Lower Upper

96 100

61 156.5 114.0 211.8

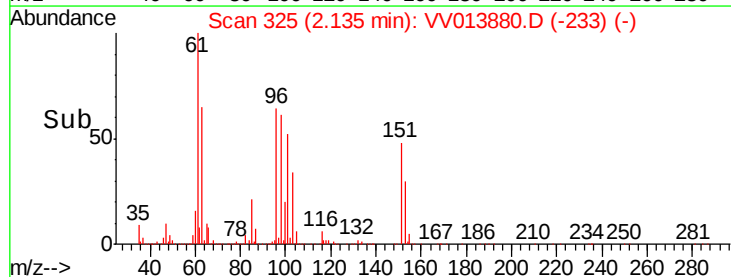
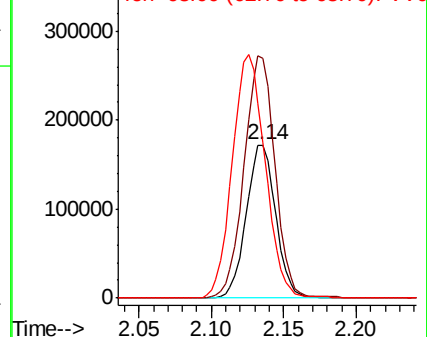
63 101.4 80.3 149.1

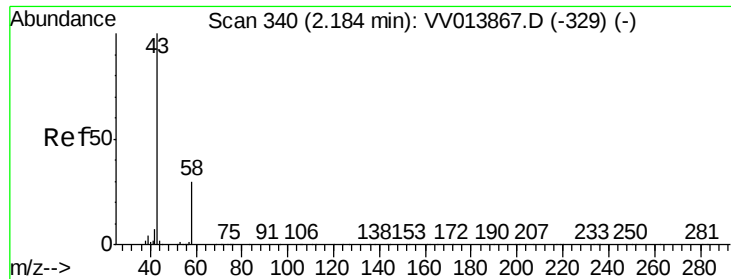


Abundance Ion 96.00 (95.70 to 96.70): VV013880.D (-233) (-)

Ion 61.00 (60.70 to 61.70): VV013880.D (-233) (-)

Ion 63.00 (62.70 to 63.70): VV013880.D (-233) (-)





#13

Acetone

Concen: 67.645 ug/L

RT: 2.18 min Scan# 340

Delta R.T. 0.00 min

Lab File: VV013880.D

Acq: 02 Dec 2019 18:50

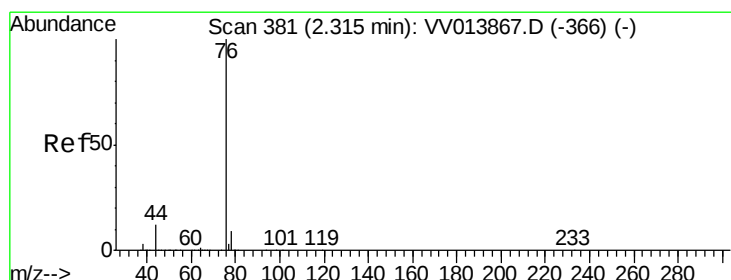
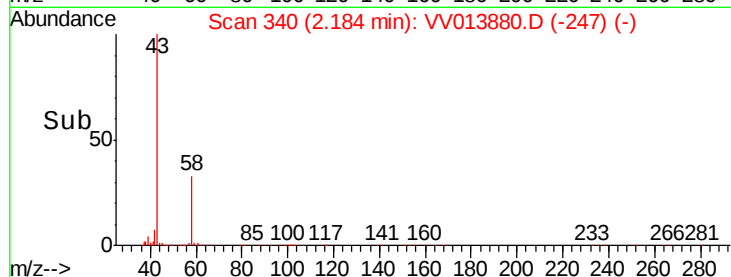
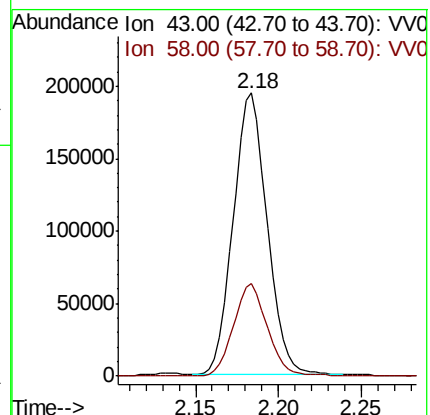
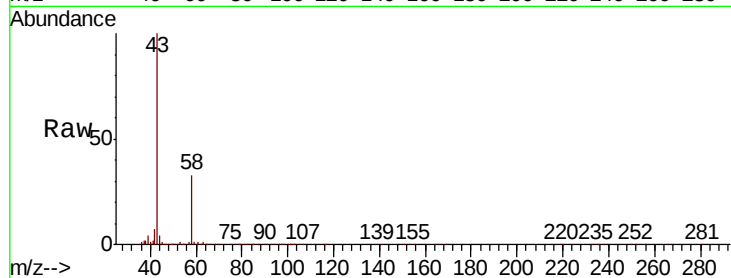
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 277448

Ion Ratio Lower Upper

43 100

58 32.9 0.0 60.8



#14

Carbon disulfide

Concen: 46.185 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV013880.D

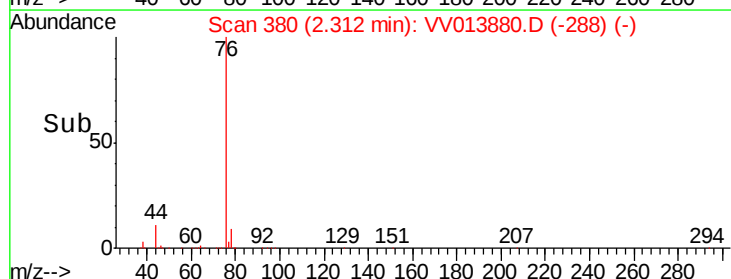
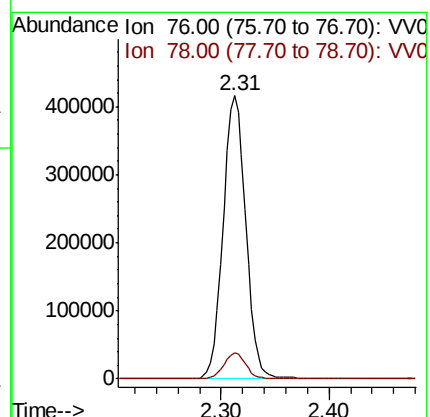
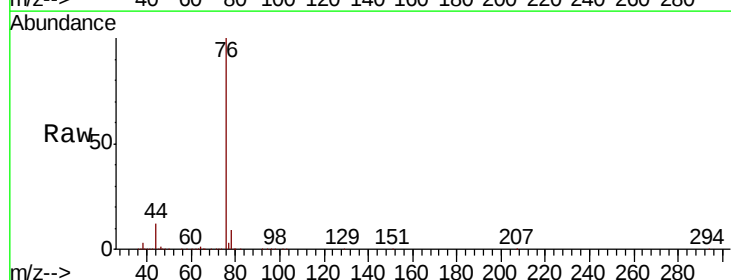
Acq: 02 Dec 2019 18:50

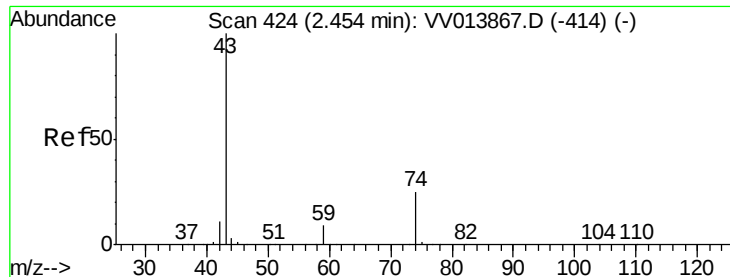
Tgt Ion: 76 Resp: 608352

Ion Ratio Lower Upper

76 100

78 9.1 7.2 10.8

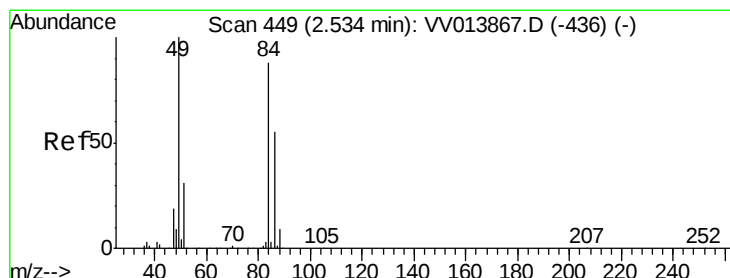
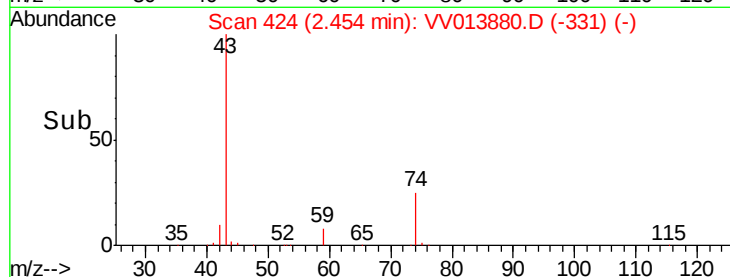
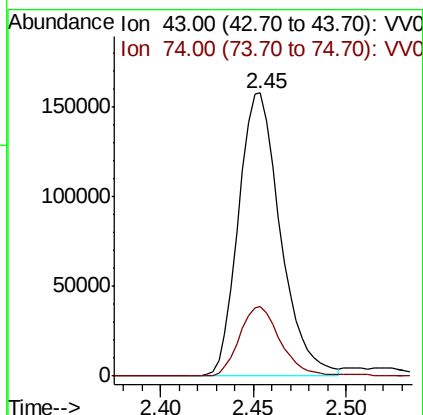
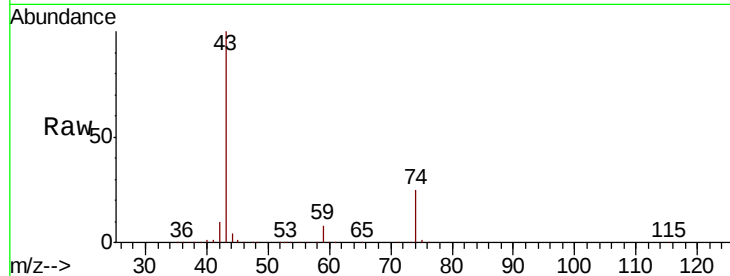




#15
Methvl Acetate
Concen: 49.048 ug/L
RT: 2.45 min Scan# 424
Delta R.T. 0.00 min
Lab File: VV013880.D
Acq: 02 Dec 2019 18:50

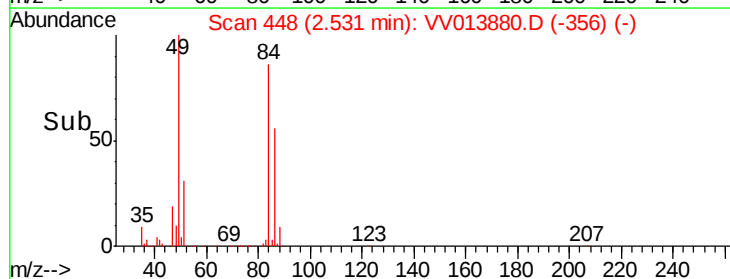
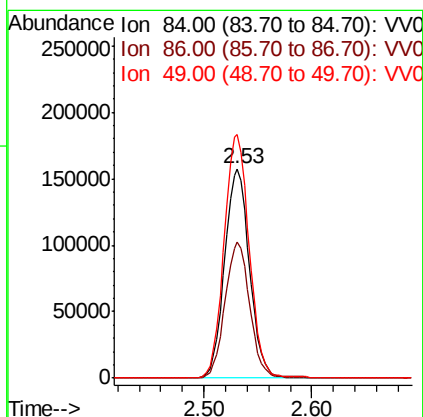
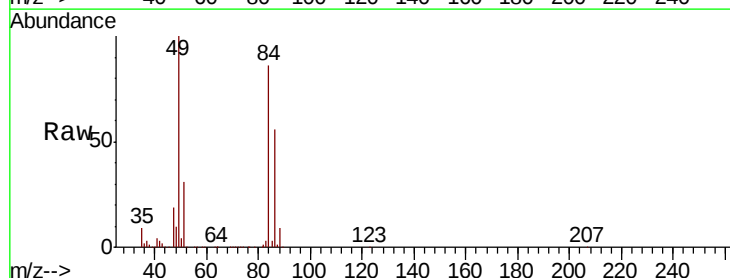
Instrument :
MSVOA_V
ClientSampleId :

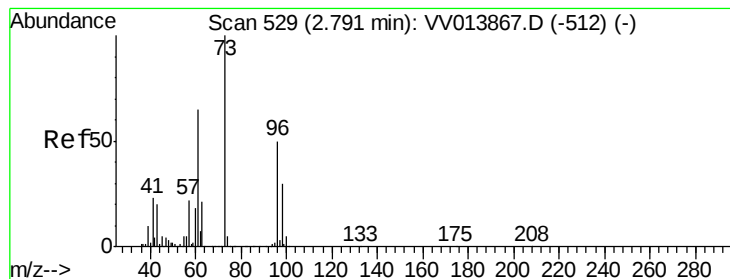
Tot Ion: 43 Resp: 247928
Ion Ratio Lower Upper
43 100
74 24.3 19.3 28.9



#16
Methylene chloride
Concen: 48.881 ug/L
RT: 2.53 min Scan# 448
Delta R.T. -0.00 min
Lab File: VV013880.D
Acq: 02 Dec 2019 18:50

Tgt Ion: 84 Resp: 254252
Ion Ratio Lower Upper
84 100
86 64.8 43.9 81.5
49 116.2 79.7 147.9





#17

trans-1,2-Dichloroethene

Concen: 47.036 ug/L

RT: 2.78 min Scan# 527

Delta R.T. -0.01 min

Lab File: VV013880.D

Acq: 02 Dec 2019 18:50

Instrument :

MSVOA_V

ClientSampleId :

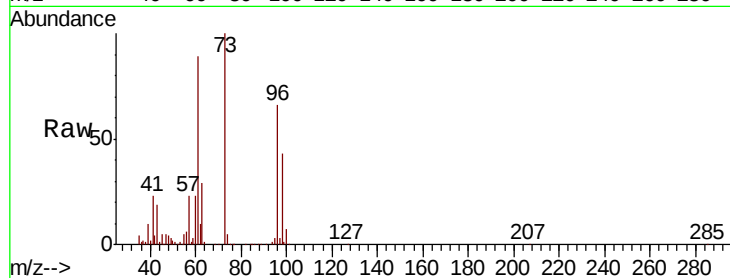
Tot Ion: 96 Resp: 229798

Ion Ratio Lower Upper

96 100

61 135.7 92.2 171.2

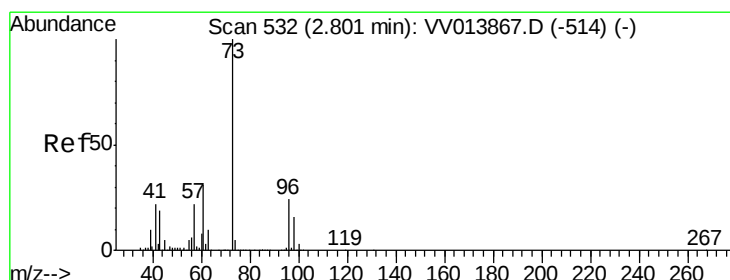
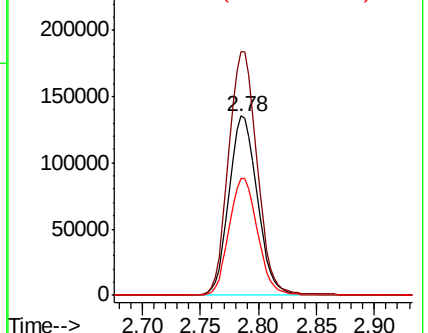
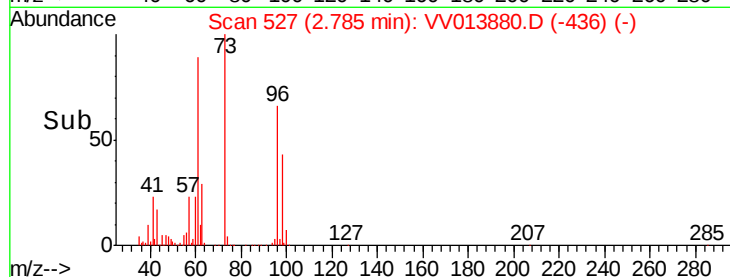
98 65.0 42.6 79.2



Abundance Ion 96.00 (95.70 to 96.70): VV013880.D (-436) (-)

Ion 61.00 (60.70 to 61.70): VV013880.D (-436) (-)

Ion 98.00 (97.70 to 98.70): VV013880.D (-436) (-)



#18

Methyl tert-butyl Ether

Concen: 50.231 ug/L

RT: 2.80 min Scan# 531

Delta R.T. -0.00 min

Lab File: VV013880.D

Acq: 02 Dec 2019 18:50

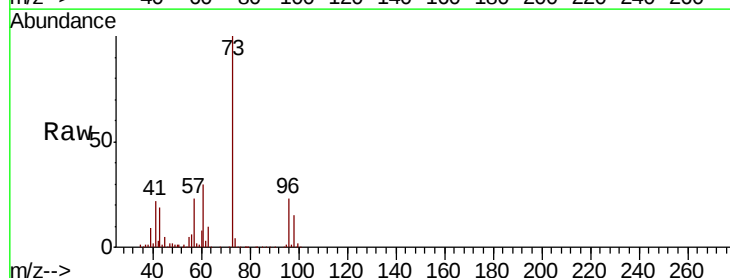
Tgt Ion: 73 Resp: 712178

Ion Ratio Lower Upper

73 100

43 18.8 15.0 22.6

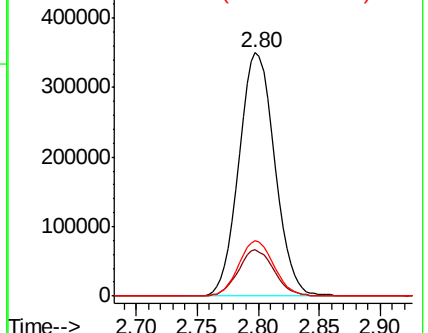
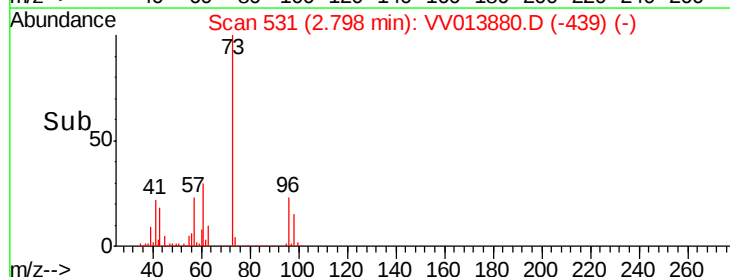
57 22.5 17.4 26.2

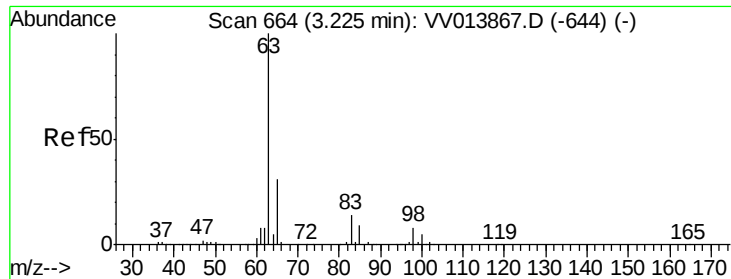


Abundance Ion 73.00 (72.70 to 73.70): VV013880.D (-439) (-)

Ion 43.00 (42.70 to 43.70): VV013880.D (-439) (-)

Ion 57.00 (56.70 to 57.70): VV013880.D (-439) (-)

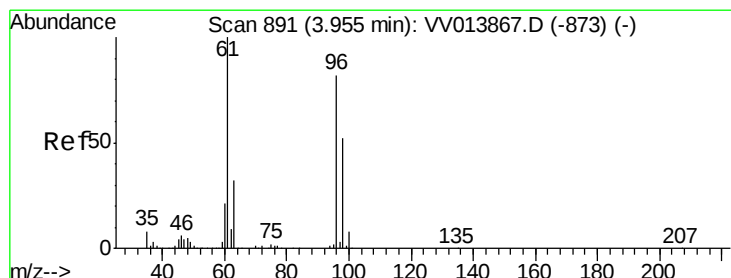
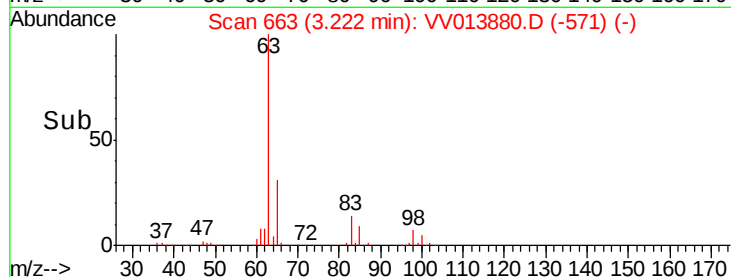
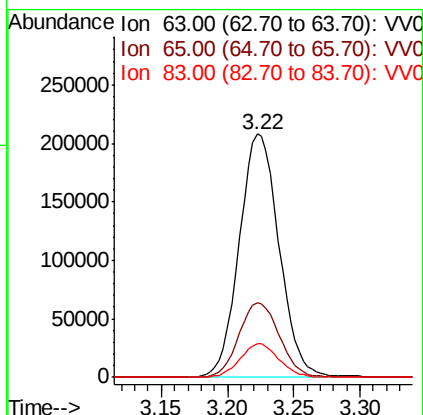
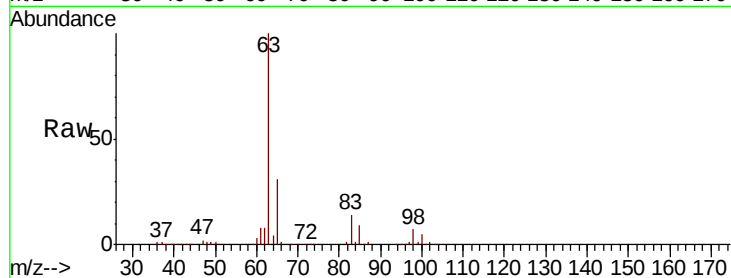




#19
 1,1-Dichloroethane
 Concen: 49.384 ug/L
 RT: 3.22 min Scan# 663
 Delta R.T. -0.00 min
 Lab File: VV013880.D
 Acq: 02 Dec 2019 18:50

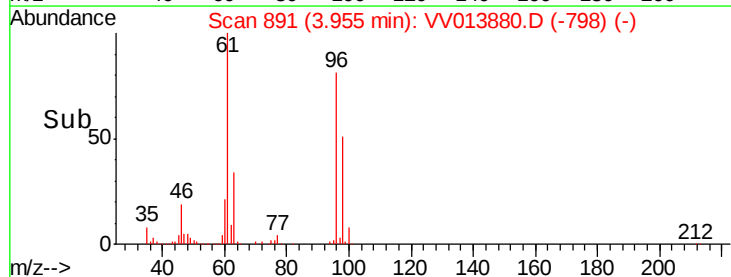
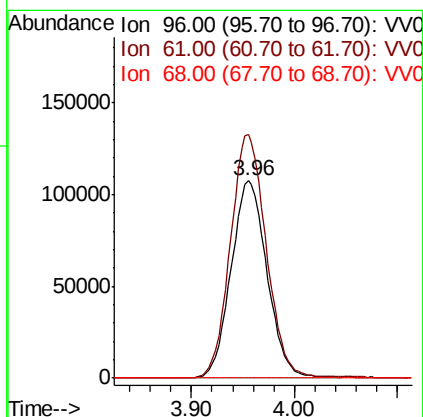
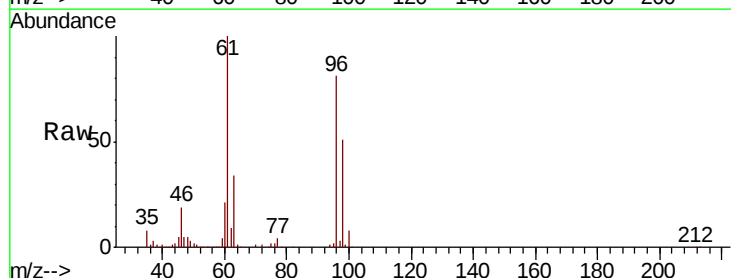
Instrument :
 MSVOA_V
 ClientSampleId :

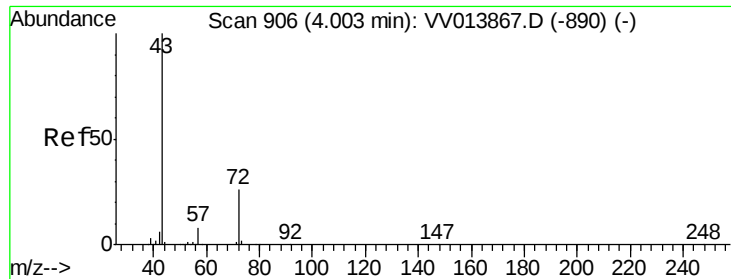
Tot Ion: 63 Resp: 434688
 Ion Ratio Lower Upper
 63 100
 65 30.9 21.5 39.9
 83 13.8 9.7 18.1



#20
 cis-1,2-Dichloroethene
 Concen: 48.939 ug/L
 RT: 3.96 min Scan# 891
 Delta R.T. 0.00 min
 Lab File: VV013880.D
 Acq: 02 Dec 2019 18:50

Tgt Ion: 96 Resp: 258923
 Ion Ratio Lower Upper
 96 100
 61 123.3 85.3 158.5
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 88.626 ug/L

RT: 4.00 min Scan# 906

Delta R.T. 0.00 min

Lab File: VV013880.D

Acq: 02 Dec 2019 18:50

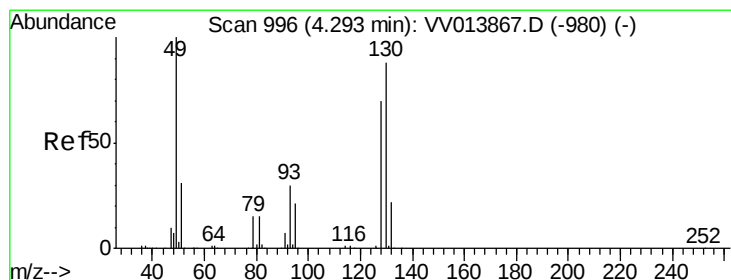
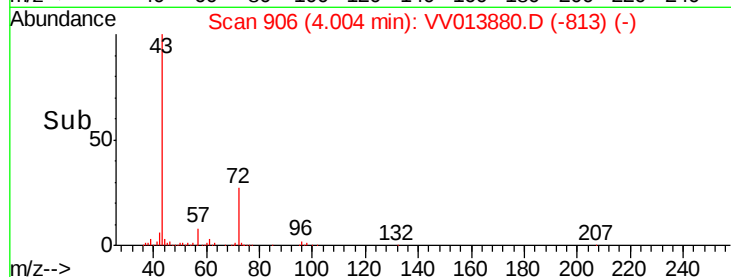
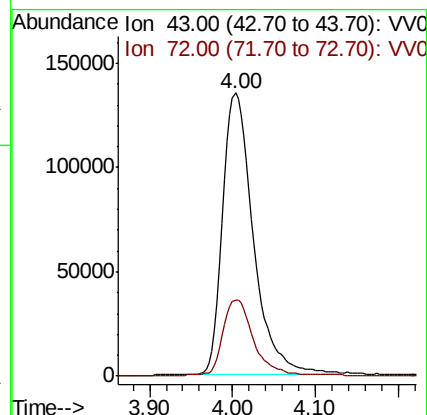
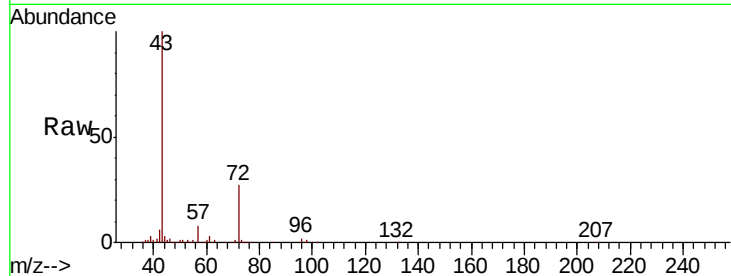
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 348901

Ion Ratio Lower Upper

43 100

72 25.7 14.1 42.2



#23

Bromochloromethane

Concen: 48.854 ug/L

RT: 4.29 min Scan# 995

Delta R.T. -0.00 min

Lab File: VV013880.D

Acq: 02 Dec 2019 18:50

Tgt Ion: 128 Resp: 142804

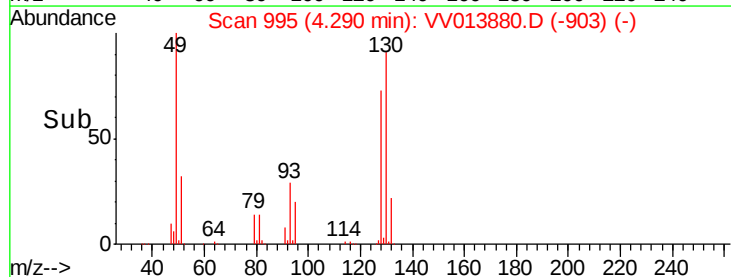
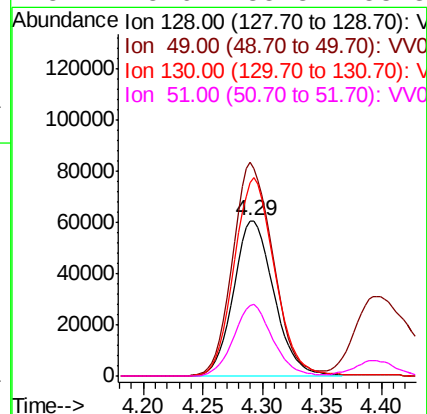
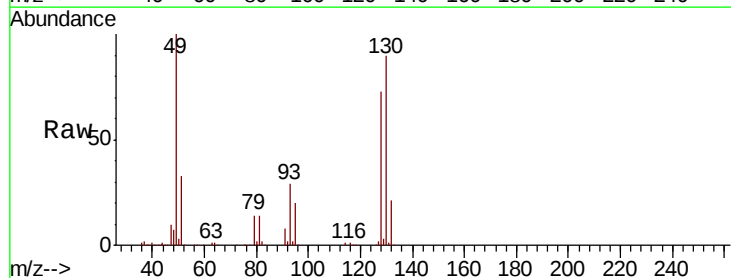
Ion Ratio Lower Upper

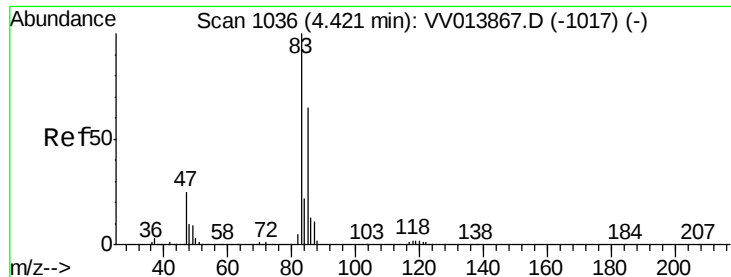
128 100

49 137.9 100.4 186.4

130 124.5 88.3 163.9

51 45.6 35.8 53.8





#25

Chloroform

Concen: 47.229 ug/L

RT: 4.42 min Scan# 1035

Delta R.T. -0.00 min

Lab File: VV013880.D

Acq: 02 Dec 2019 18:50

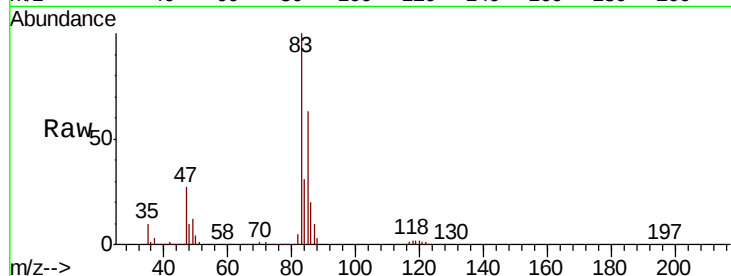
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 83 Resp: 444429

Ion Ratio Lower Upper

83 100

85 63.1 45.7 84.9



Abundance Ion 83.00 (82.70 to 83.70): VV013867.D (-1017) (-)

Ion 85.00 (84.70 to 85.70): VV013880.D (-943) (-)

4.42

200000

150000

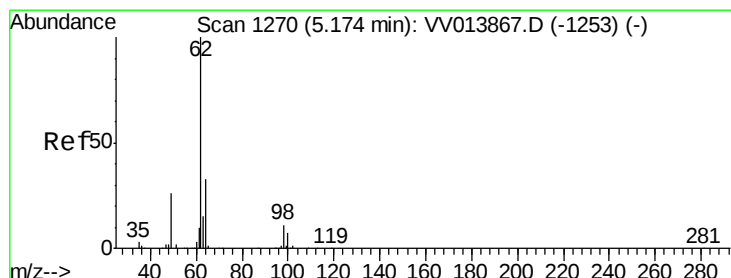
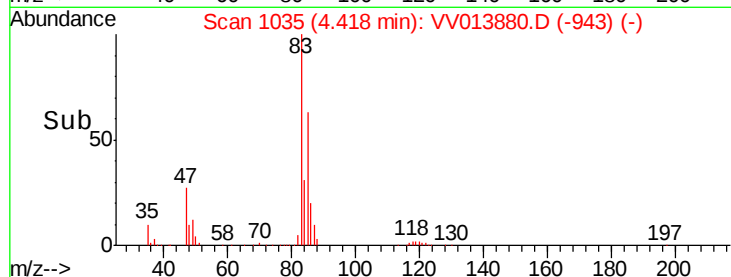
100000

50000

0

4.30 4.40 4.50

Time-->



#27

1,2-Dichloroethane

Concen: 49.989 ug/L

RT: 5.17 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VV013880.D

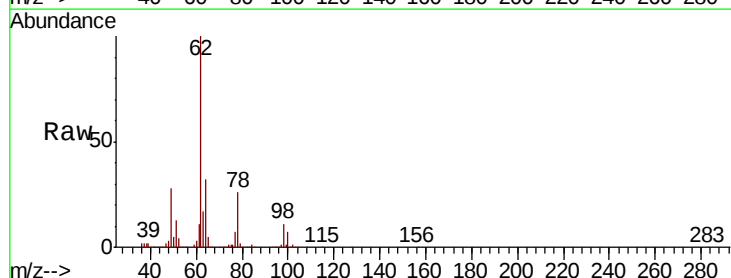
Acq: 02 Dec 2019 18:50

Tgt Ion: 62 Resp: 338957

Ion Ratio Lower Upper

62 100

98 10.8 8.5 12.7



Abundance Ion 62.00 (61.70 to 62.70): VV013867.D (-1253) (-)

Ion 98.00 (97.70 to 98.70): VV013880.D (-1177) (-)

5.17

150000

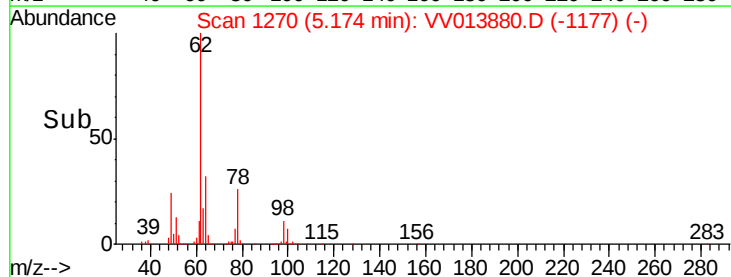
100000

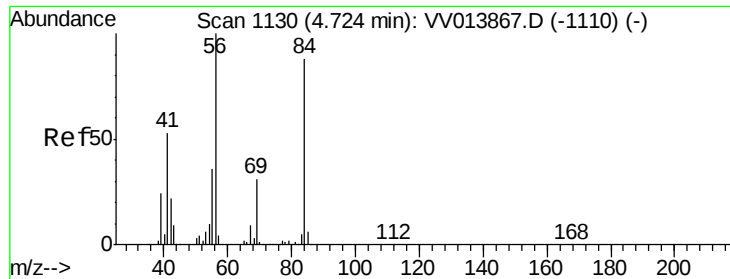
50000

0

5.10 5.20 5.30

Time-->

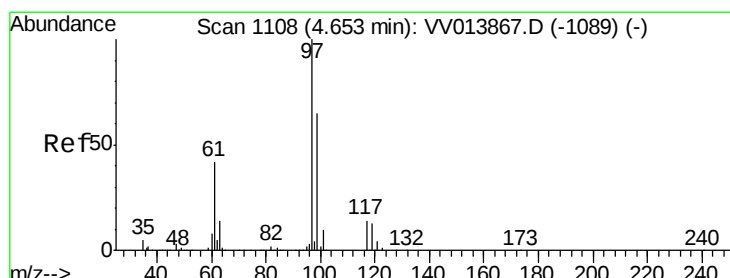
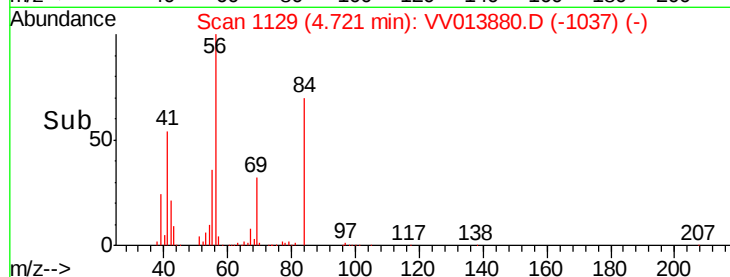
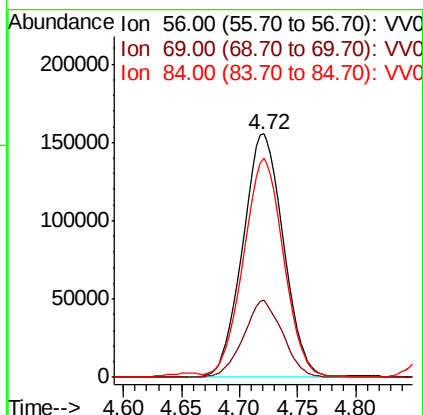
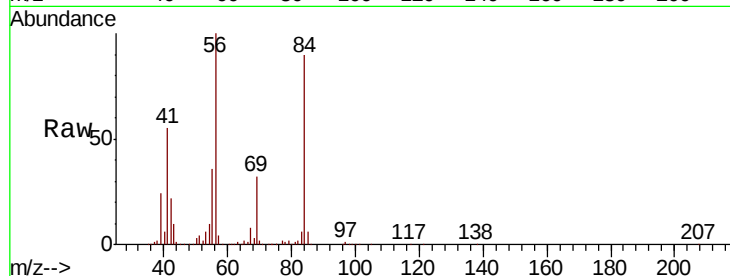




#29
Cyclohexane
Concen: 51.219 ug/L
RT: 4.72 min Scan# 1129
Delta R.T. -0.00 min
Lab File: VV013880.D
Acq: 02 Dec 2019 18:50

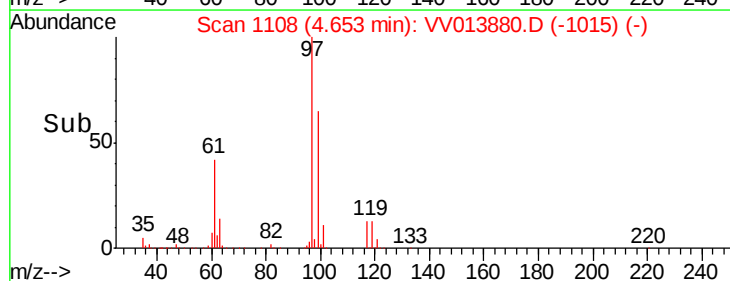
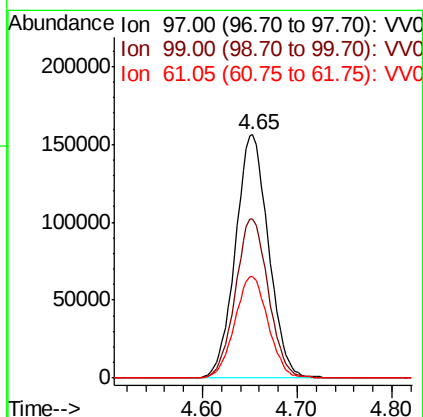
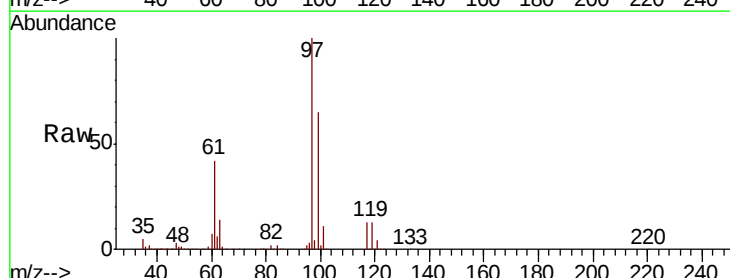
Instrument :
MSVOA_V
ClientSampleId :

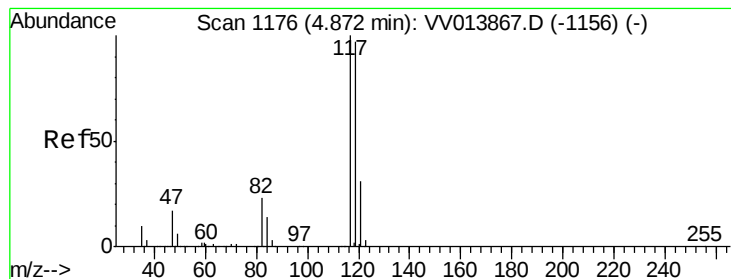
Tot Ion: 56 Resp: 380074
Ion Ratio Lower Upper
56 100
69 30.5 24.9 37.3
84 88.7 71.0 106.4



#30
1,1,1-Trichloroethane
Concen: 49.549 ug/L
RT: 4.65 min Scan# 1108
Delta R.T. 0.00 min
Lab File: VV013880.D
Acq: 02 Dec 2019 18:50

Tgt Ion: 97 Resp: 379923
Ion Ratio Lower Upper
97 100
99 65.2 51.4 77.2
61 42.2 33.2 49.8





#31

Carbon tetrachloride

Concen: 50.272 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VV013880.D

Acq: 02 Dec 2019 18:50

Instrument :

MSVOA_V

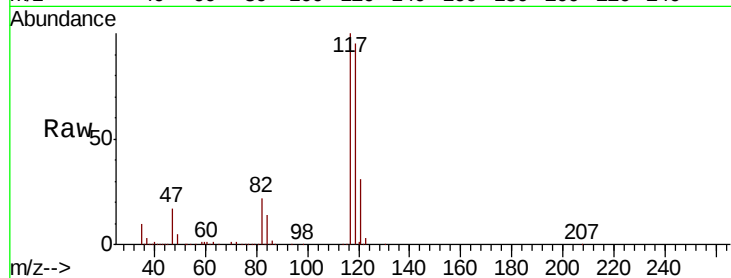
ClientSampleId :

Tot Ion:117 Resp: 344332

Ion Ratio Lower Upper

117 100

119 96.3 77.9 116.9



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

4.87

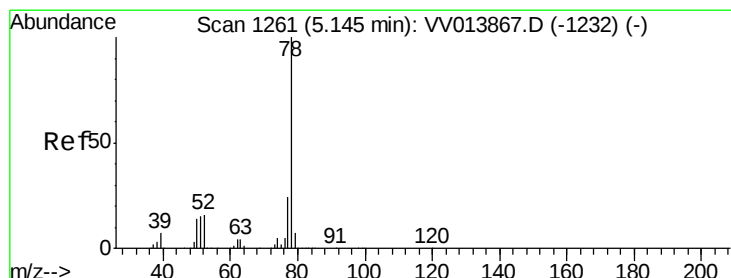
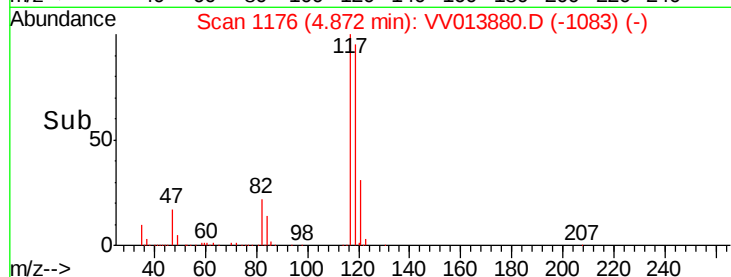
150000

100000

50000

0

Time-->



#33

Benzene

Concen: 51.755 ug/L

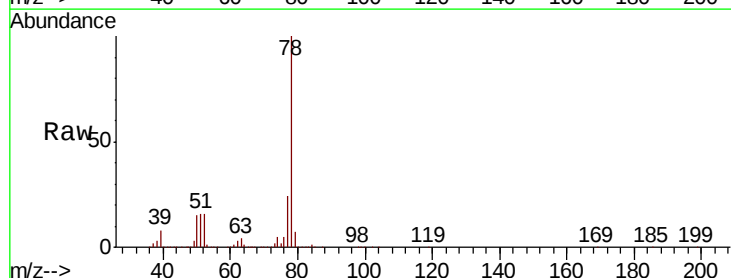
RT: 5.14 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VV013880.D

Acq: 02 Dec 2019 18:50

Tgt Ion: 78 Resp: 978929



Abundance Ion 78.00 (77.70 to 78.70): VV0

5.14

500000

400000

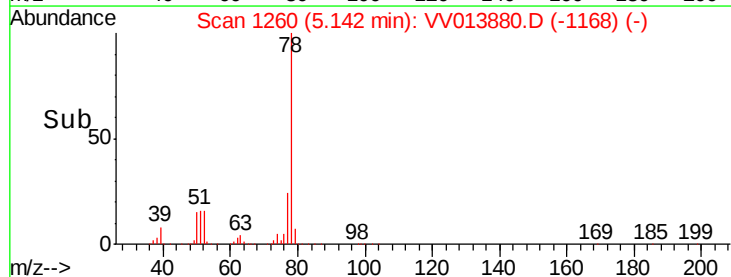
300000

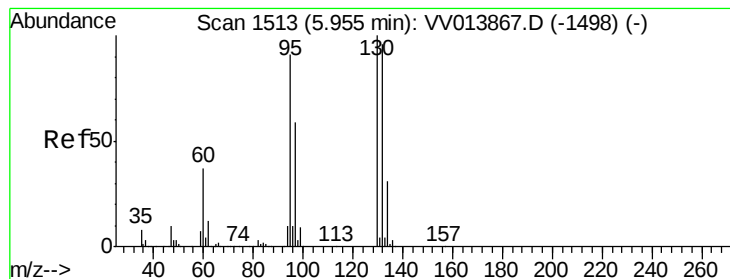
200000

100000

0

Time-->





#34

Trichloroethene

Concen: 55.569 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV013880.D

Acq: 02 Dec 2019 18:50

Instrument :

MSVOA_V

ClientSampleId :

Tot Ion: 95 Resp: 281905

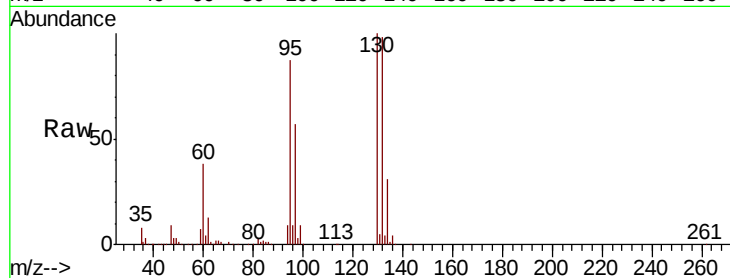
Ion Ratio Lower Upper

95 100

97 65.4 45.4 84.4

132 112.5 73.7 136.9

130 115.0 77.1 143.1



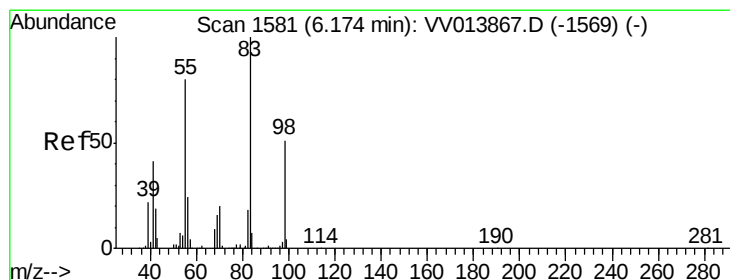
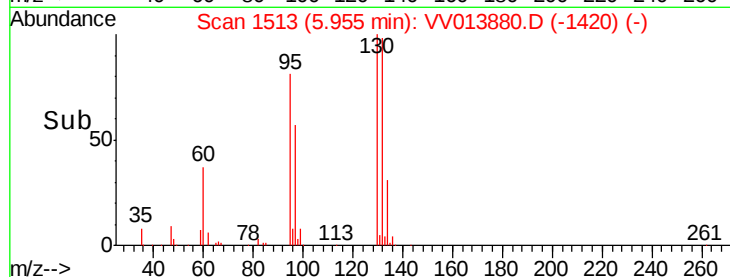
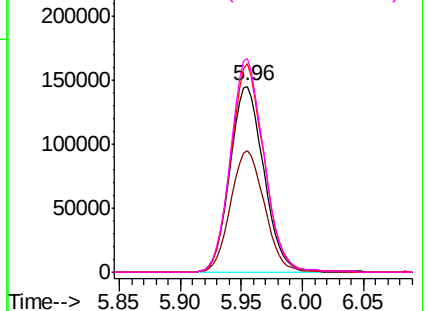
Abundance

Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#35

Methylcyclohexane

Concen: 49.557 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VV013880.D

Acq: 02 Dec 2019 18:50

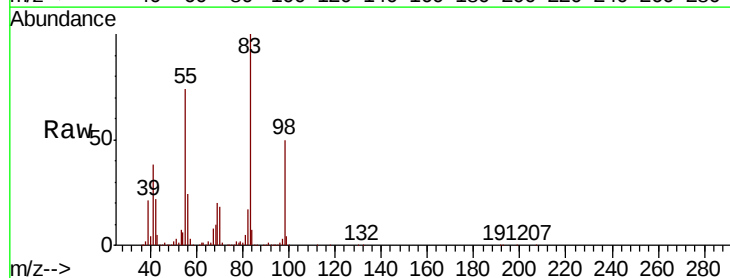
Tgt Ion: 83 Resp: 377211

Ion Ratio Lower Upper

83 100

55 74.7 61.0 91.4

98 50.0 39.6 59.4

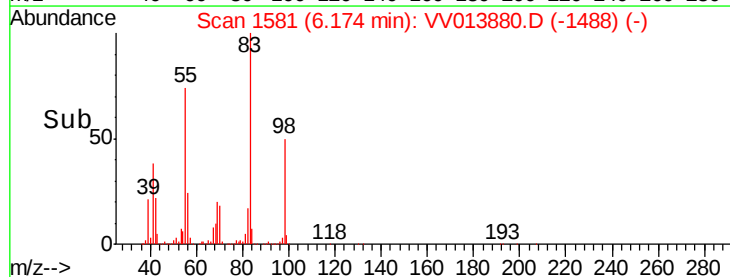
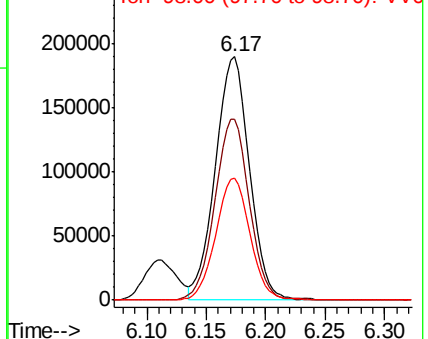


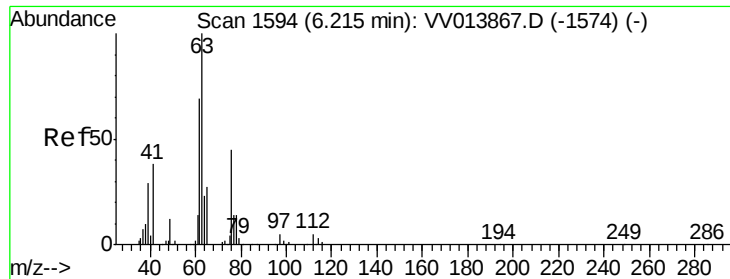
Abundance

Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#37

1,2-Dichloropropane

Concen: 51.230 ug/L

RT: 6.22 min Scan# 1594

Delta R.T. 0.00 min

Lab File: VV013880.D

Acq: 02 Dec 2019 18:50

Instrument :

MSVOA_V

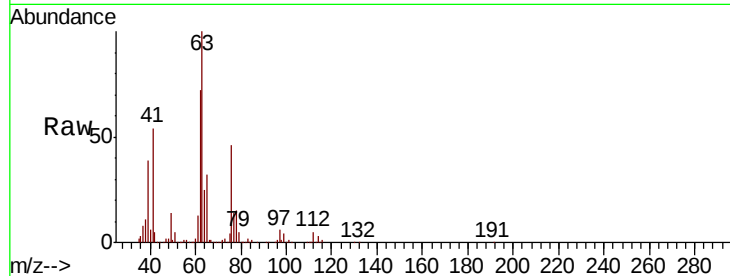
ClientSampleId :

Tot Ion: 63 Resp: 234524

Ion Ratio Lower Upper

63 100

112 5.1 4.2 6.2



Abundance Ion 63.00 (62.70 to 63.70): VV013867.D (-1574) (-)

Ion 112.00 (111.70 to 112.70): VV013867.D (-1574) (-)

6.22

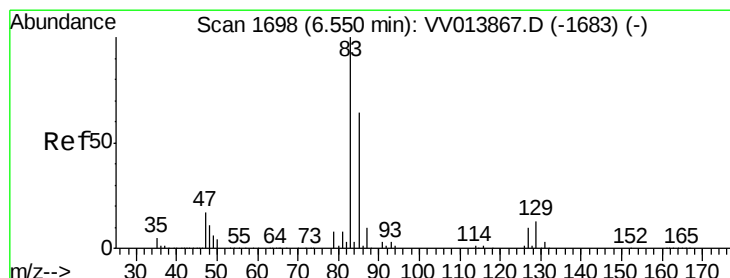
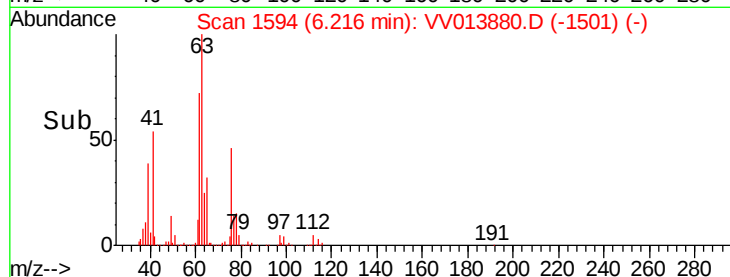
100000

50000

0

6.10 6.20 6.30

Time-->



#38

Bromodichloromethane

Concen: 48.193 ug/L

RT: 6.55 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VV013880.D

Acq: 02 Dec 2019 18:50

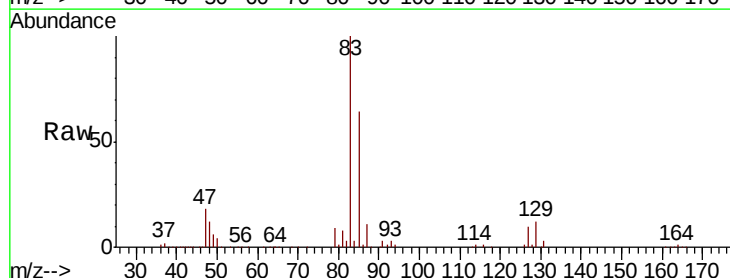
Tgt Ion: 83 Resp: 312881

Ion Ratio Lower Upper

83 100

85 64.5 44.8 83.2

127 9.9 7.7 11.5



Abundance Ion 83.00 (82.70 to 83.70): VV013867.D (-1683) (-)

Ion 85.00 (84.70 to 85.70): VV013867.D (-1683) (-)

Ion 127.00 (126.70 to 127.70): VV013867.D (-1683) (-)

6.55

200000

150000

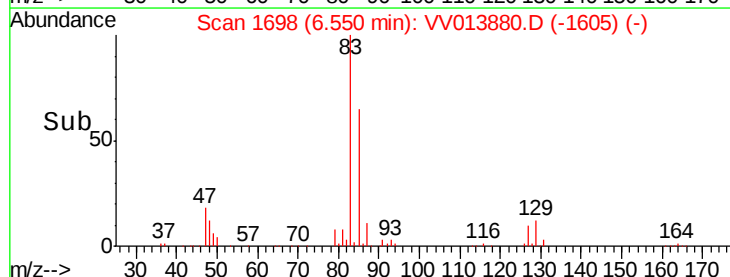
100000

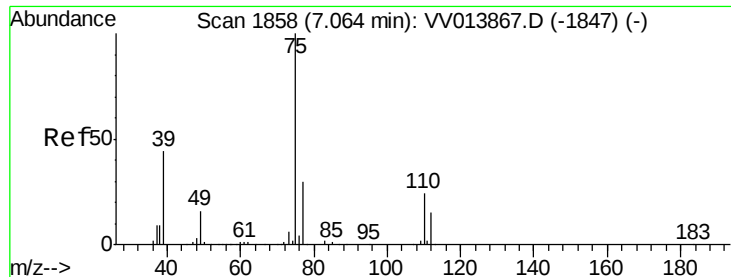
50000

0

6.45 6.50 6.55 6.60 6.65

Time-->



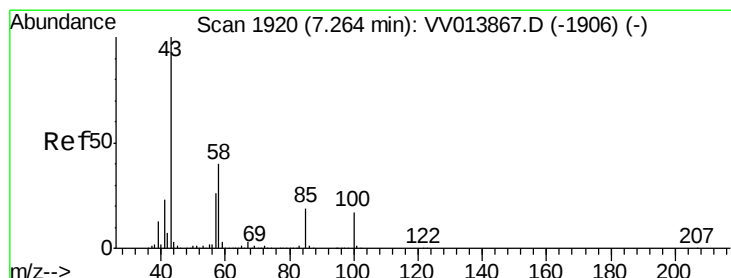
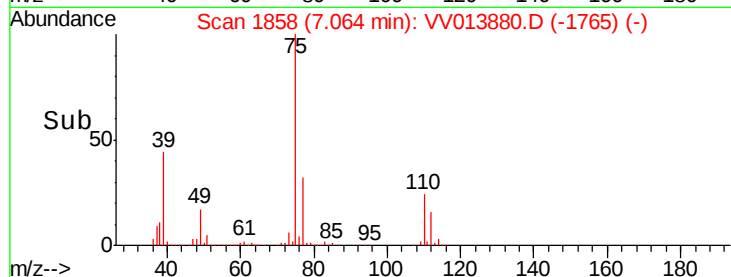
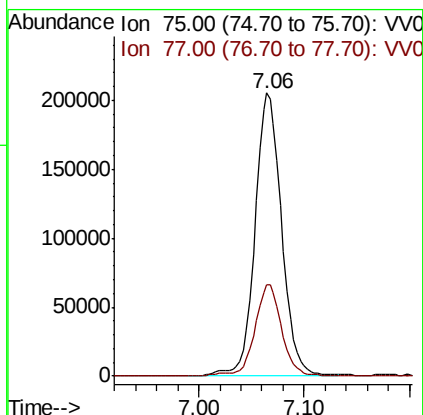
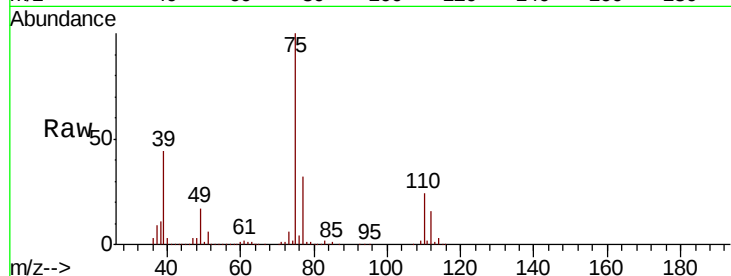


#39

cis-1,3-Dichloropropene
Concen: 50.162 ug/L
RT: 7.06 min Scan# 1858
Delta R.T. 0.00 min
Lab File: VV013880.D
Acq: 02 Dec 2019 18:50

Instrument :
MSVOA_V
ClientSampleId :

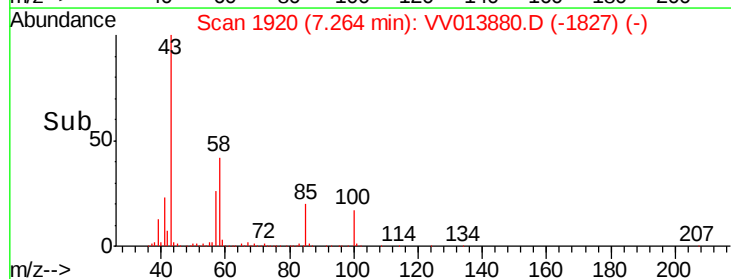
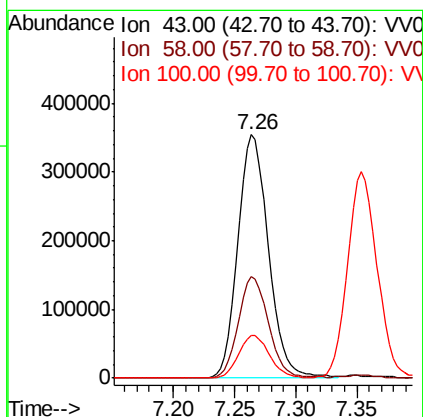
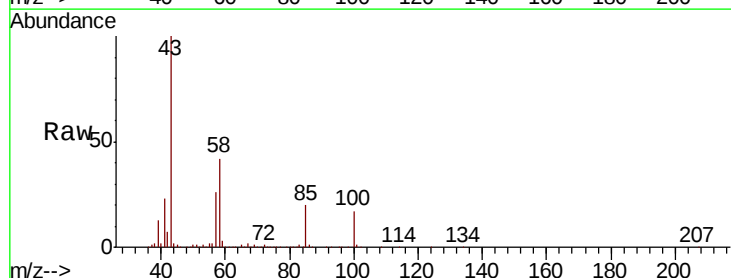
Tot Ion: 75 Resp: 361504
Ion Ratio Lower Upper
75 100
77 32.3 21.6 40.2

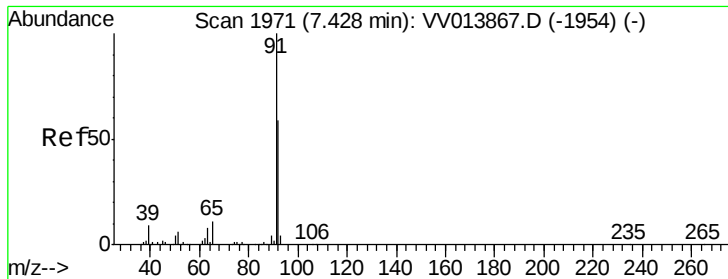


#40

4-Methyl-2-pentanone
Concen: 103.023 ug/L
RT: 7.26 min Scan# 1920
Delta R.T. 0.00 min
Lab File: VV013880.D
Acq: 02 Dec 2019 18:50

Tgt Ion: 43 Resp: 613280
Ion Ratio Lower Upper
43 100
58 41.1 31.9 47.9
100 17.7 13.7 20.5





#42

Toluene

Concen: 51.029 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV013880.D

Acq: 02 Dec 2019 18:50

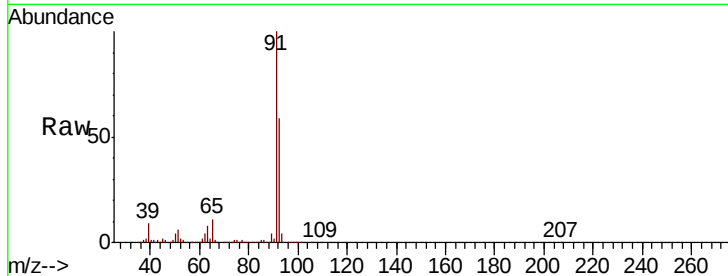
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 995866

Ion Ratio Lower Upper

91 100

92 59.1 41.4 77.0



Abundance Ion 91.00 (90.70 to 91.70): VV013867.D (-1954) (-)

Ion 92.00 (91.70 to 92.70): VV013880.D (-1878) (-)

7.43

600000

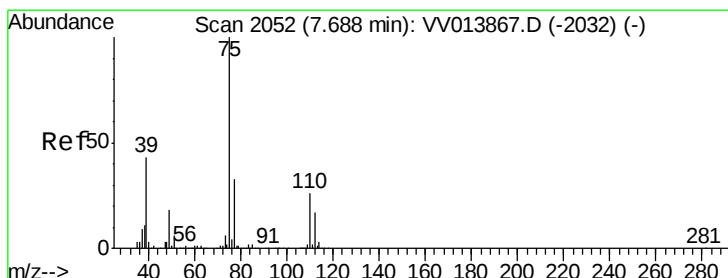
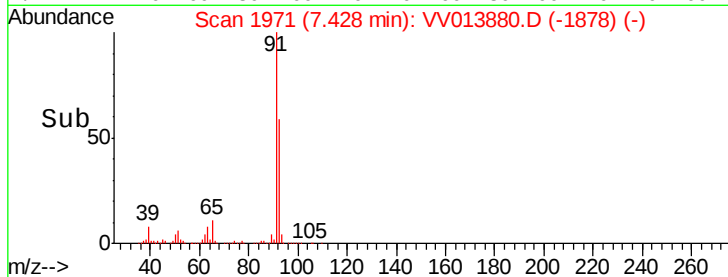
400000

200000

0

7.40 7.50

Time-->



#44

trans-1,3-Dichloropropene

Concen: 48.794 ug/L

RT: 7.69 min Scan# 2052

Delta R.T. 0.00 min

Lab File: VV013880.D

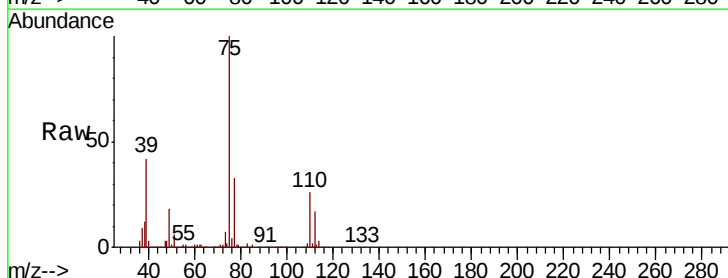
Acq: 02 Dec 2019 18:50

Tgt Ion: 75 Resp: 318431

Ion Ratio Lower Upper

75 100

77 32.8 22.9 42.5



Abundance Ion 75.00 (74.70 to 75.70): VV013867.D (-2032) (-)

Ion 77.00 (76.70 to 77.70): VV013880.D (-1959) (-)

7.69

200000

150000

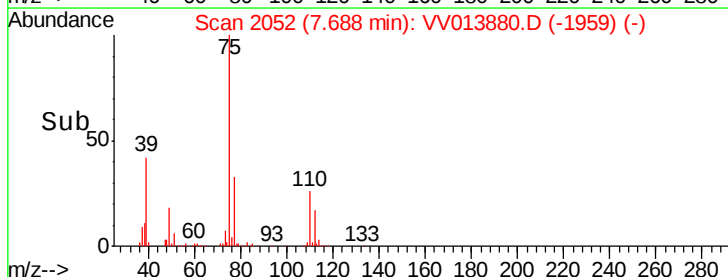
100000

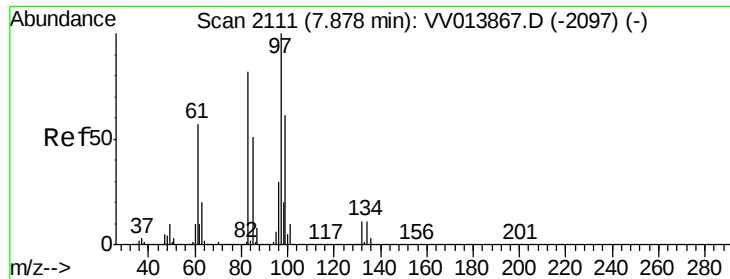
50000

0

7.60 7.65 7.70 7.75

Time-->

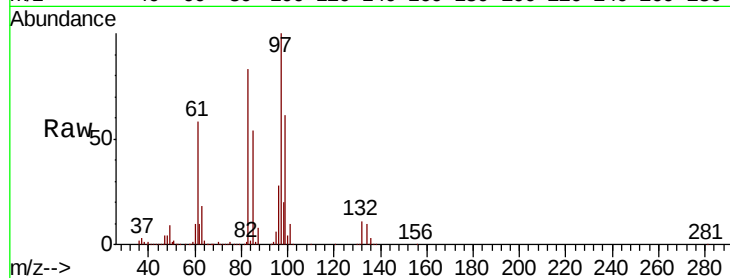




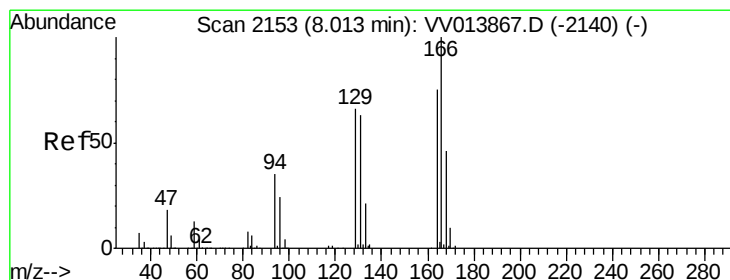
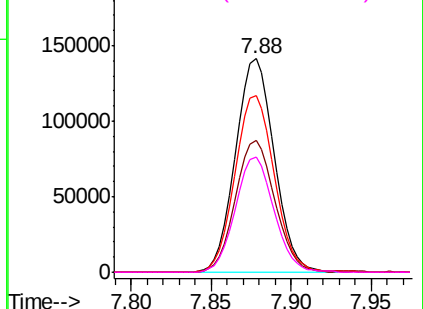
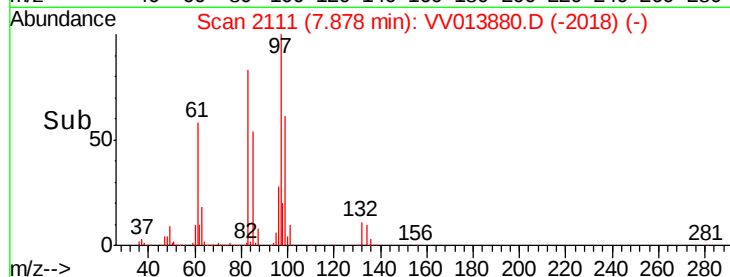
#45
1,1,2-Trichloroethane
Concen: 51.165 ug/L
RT: 7.88 min Scan# 2111
Delta R.T. 0.00 min
Lab File: VV013880.D
Acq: 02 Dec 2019 18:50

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:	97	Resp:	232496
Ion	Ratio	Lower	Upper
97	100		
99	61.5	43.0	80.0
83	82.8	57.5	106.9
85	53.8	35.6	66.2

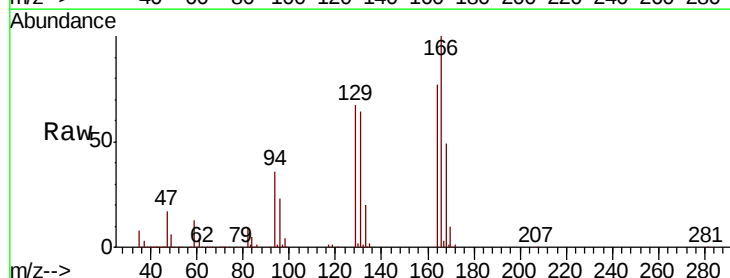


Abundance Ion 97.00 (96.70 to 97.70): VV013880.D (-2018) (-)
Ion 99.00 (98.70 to 99.70): VV013880.D (-2018) (-)
Ion 83.00 (82.70 to 83.70): VV013880.D (-2018) (-)
Ion 85.00 (84.70 to 85.70): VV013880.D (-2018) (-)

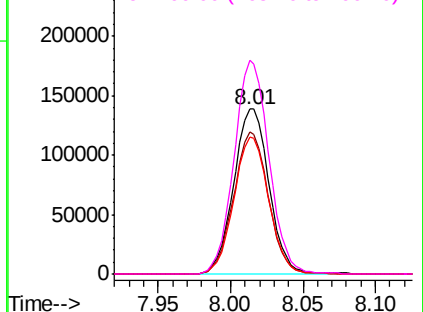
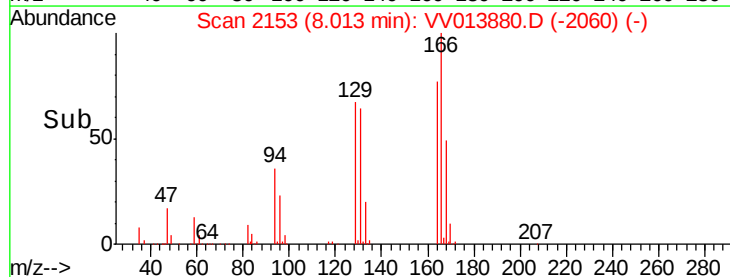


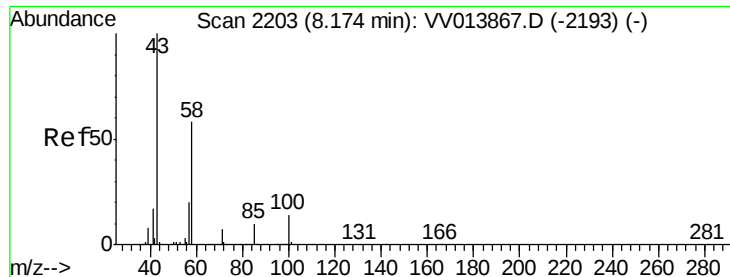
#46
Tetrachloroethene
Concen: 51.140 ug/L
RT: 8.01 min Scan# 2153
Delta R.T. 0.00 min
Lab File: VV013880.D
Acq: 02 Dec 2019 18:50

Tgt Ion:	164	Resp:	234109
Ion	Ratio	Lower	Upper
164	100		
129	86.3	61.7	114.7
131	82.8	58.4	108.6
166	129.4	93.4	173.6



Abundance Ion 164.00 (163.70 to 164.70): VV013880.D (-2060) (-)
Ion 129.00 (128.70 to 129.70): VV013880.D (-2060) (-)
Ion 131.00 (130.70 to 131.70): VV013880.D (-2060) (-)
Ion 166.00 (165.70 to 166.70): VV013880.D (-2060) (-)

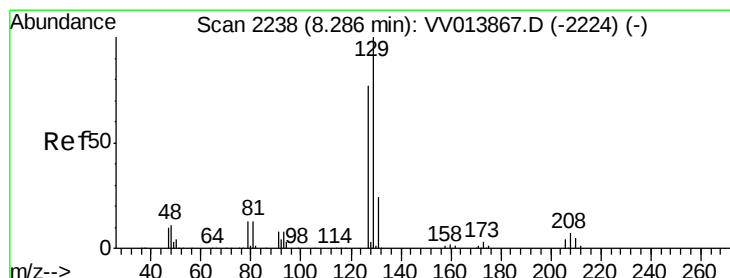
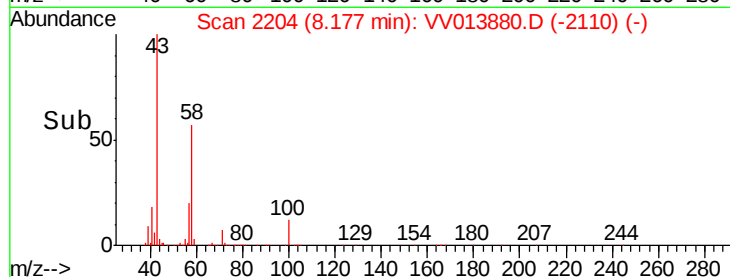
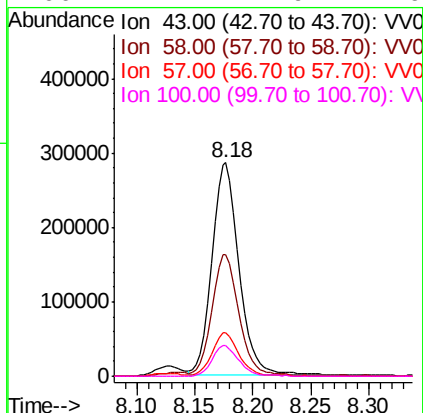
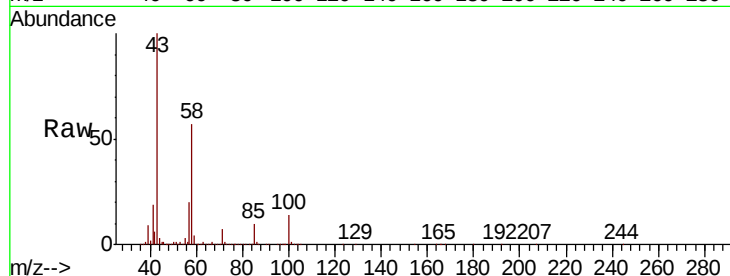




#48
2-Hexanone
Concen: 98.386 ug/L
RT: 8.18 min Scan# 2204
Delta R.T. 0.00 min
Lab File: VV013880.D
Acq: 02 Dec 2019 18:50

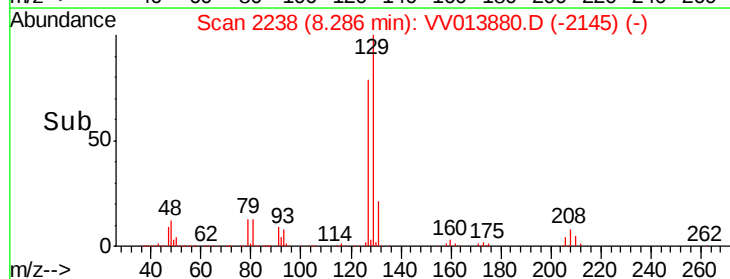
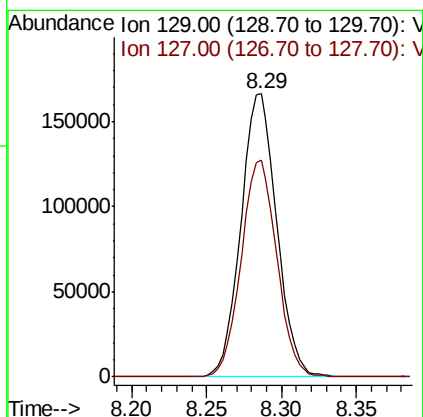
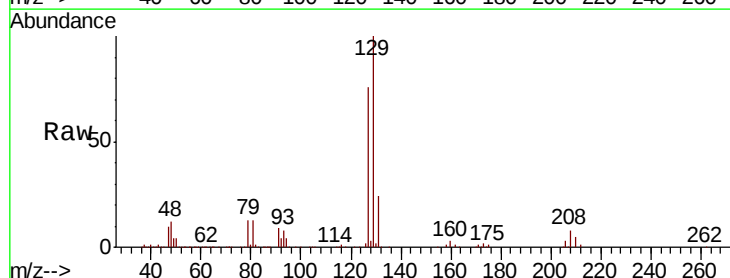
Instrument :
MSVOA_V
ClientSampleId :

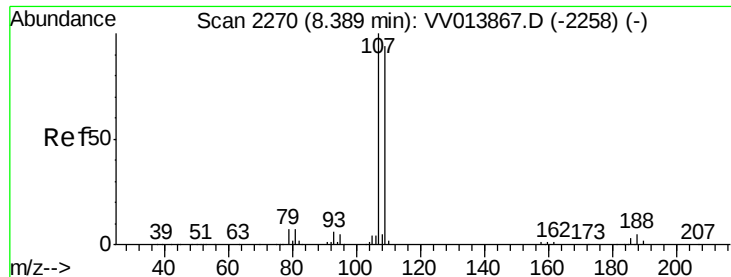
Tot Ion: 43 Resp: 468510
Ion Ratio Lower Upper
43 100
58 56.7 48.4 72.6
57 20.1 16.6 24.8
100 14.1 11.9 17.9



#49
Dibromochloromethane
Concen: 49.883 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VV013880.D
Acq: 02 Dec 2019 18:50

Tgt Ion: 129 Resp: 277081
Ion Ratio Lower Upper
129 100
127 76.4 53.7 99.7

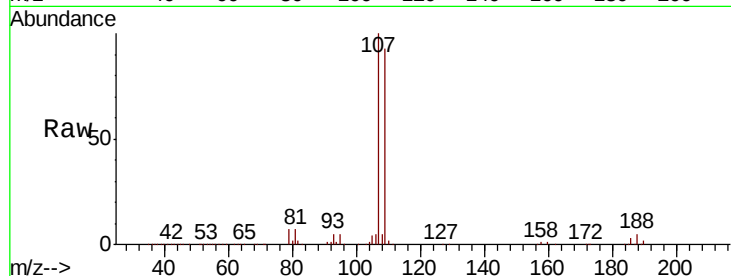




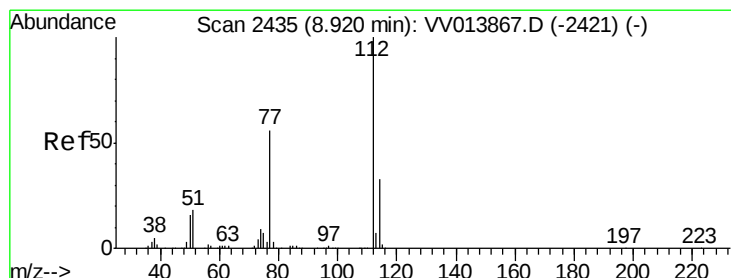
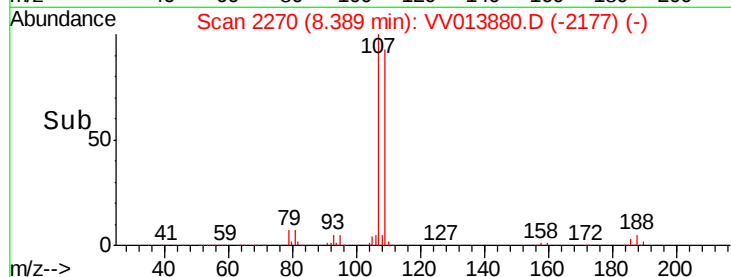
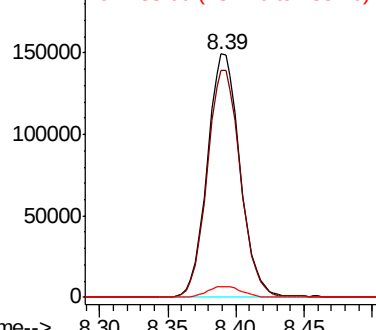
#50
 1,2-Dibromoethane
 Concen: 49.821 ug/L
 RT: 8.39 min Scan# 2270
 Delta R.T. 0.00 min
 Lab File: VV013880.D
 Acq: 02 Dec 2019 18:50

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.4	65.9	122.5
188	4.6	3.6	5.4

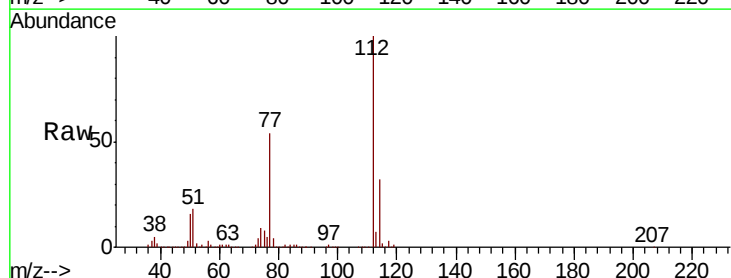


Abundance Ion 107.00 (106.70 to 107.70): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 188.00 (187.70 to 188.70): V

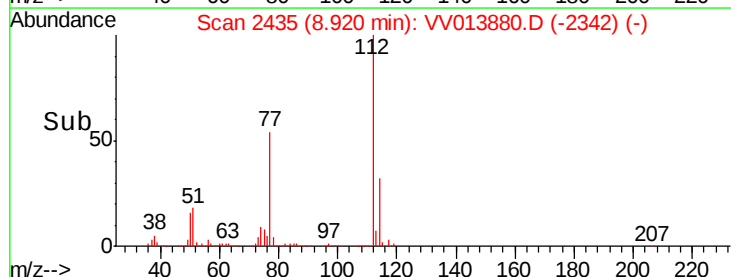
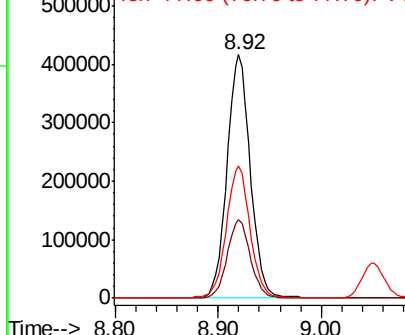


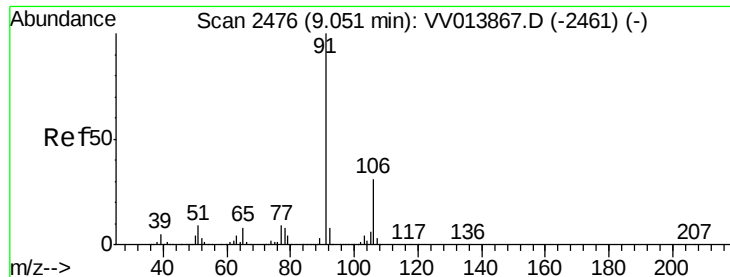
#51
 Chlorobenzene
 Concen: 48.575 ug/L
 RT: 8.92 min Scan# 2435
 Delta R.T. 0.00 min
 Lab File: VV013880.D
 Acq: 02 Dec 2019 18:50

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.5	23.2	43.2
77	54.3	45.0	67.4



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): VV0





#52

Ethylbenzene

Concen: 50.077 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. 0.00 min

Lab File: VV013880.D

Acq: 02 Dec 2019 18:50

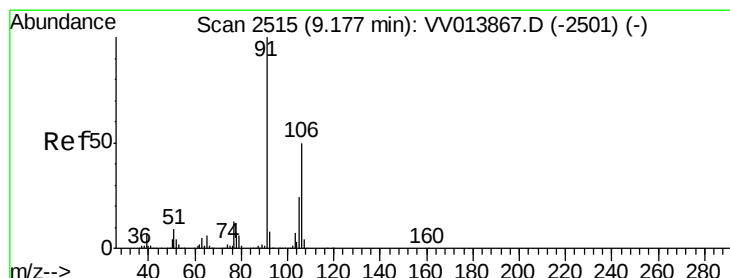
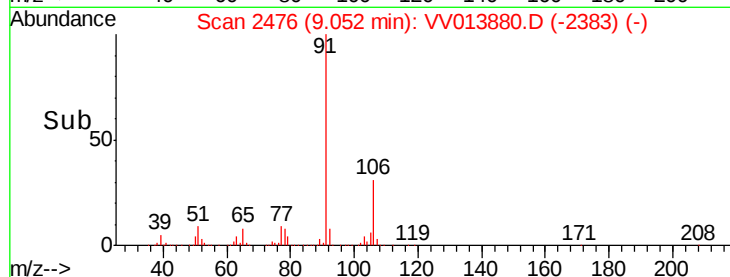
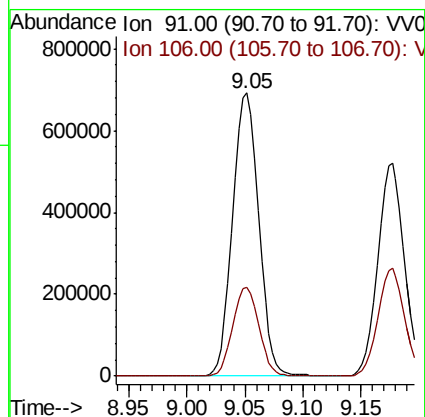
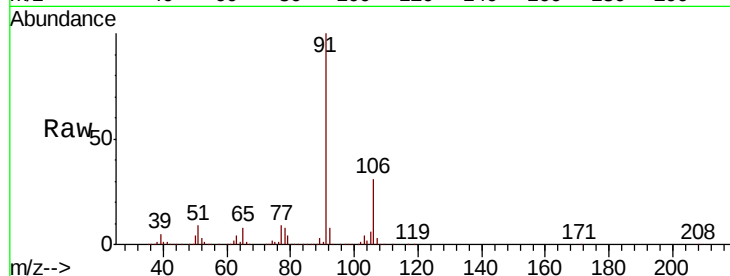
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 1077352

Ion Ratio Lower Upper

91 100

106 31.5 21.8 40.4



#53

m,p-Xylene

Concen: 50.877 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. 0.00 min

Lab File: VV013880.D

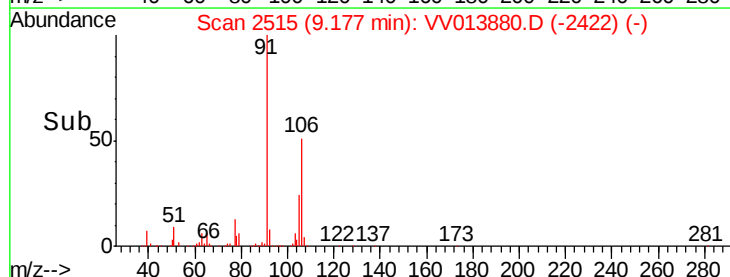
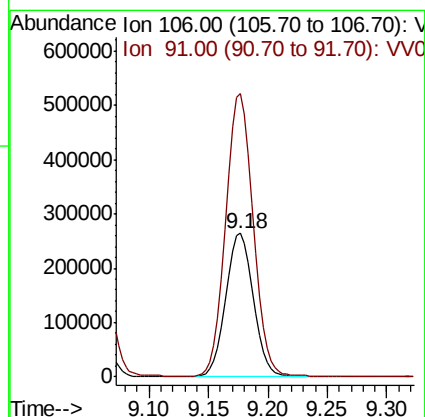
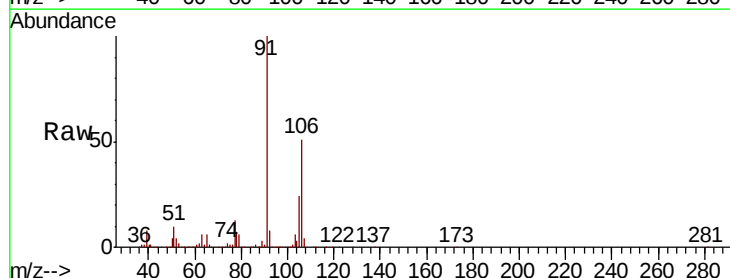
Acq: 02 Dec 2019 18:50

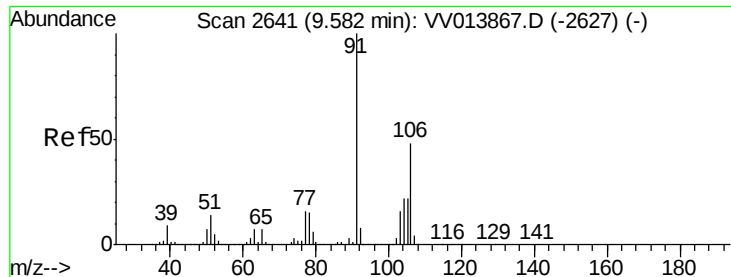
Tgt Ion: 106 Resp: 423277

Ion Ratio Lower Upper

106 100

91 197.1 139.4 259.0





#54

o-xylene

Concen: 50.865 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. 0.00 min

Lab File: VV013880.D

Acq: 02 Dec 2019 18:50

Instrument :

MSVOA_V

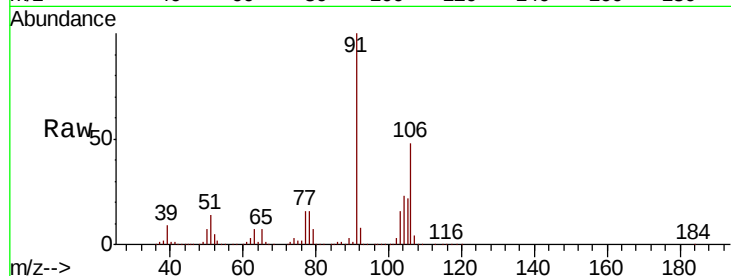
ClientSampleId :

Tot Ion:106 Resp: 413760

Ion Ratio Lower Upper

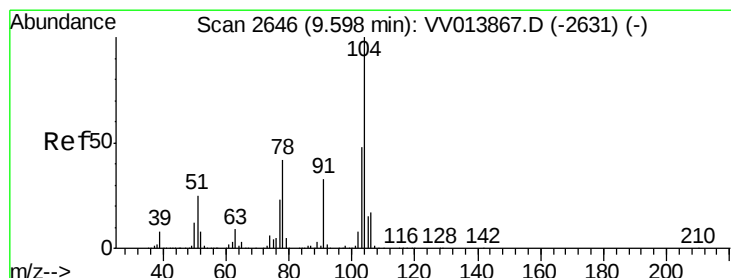
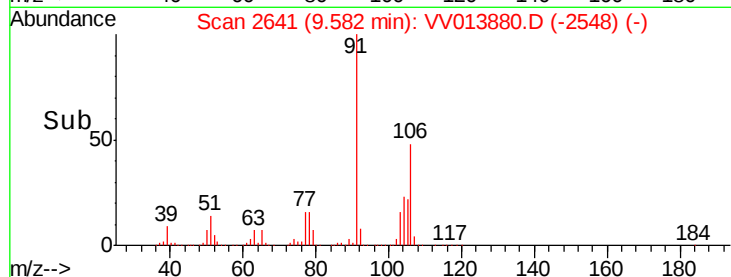
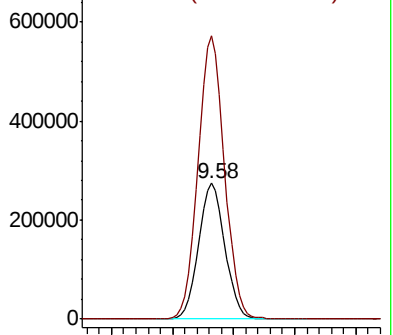
106 100

91 208.4 147.1 273.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 50.603 ug/L

RT: 9.60 min Scan# 2646

Delta R.T. 0.00 min

Lab File: VV013880.D

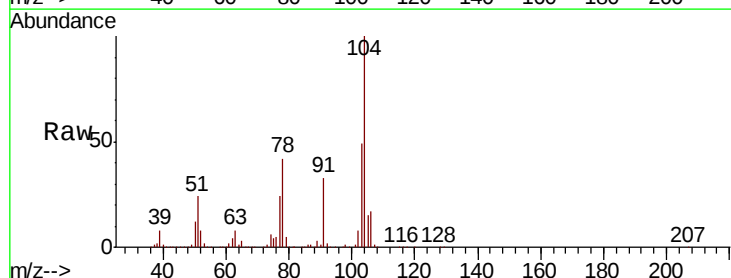
Acq: 02 Dec 2019 18:50

Tgt Ion:104 Resp: 710182

Ion Ratio Lower Upper

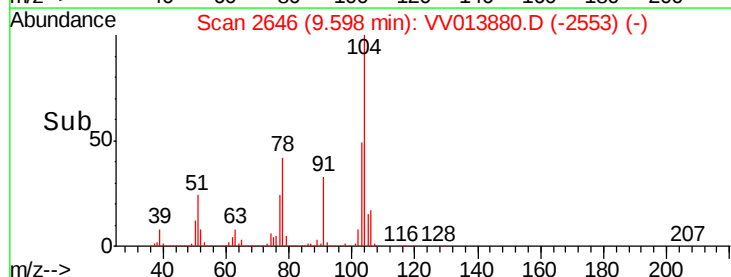
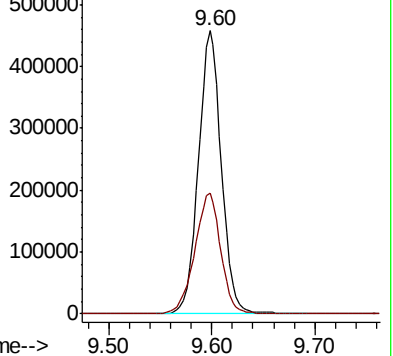
104 100

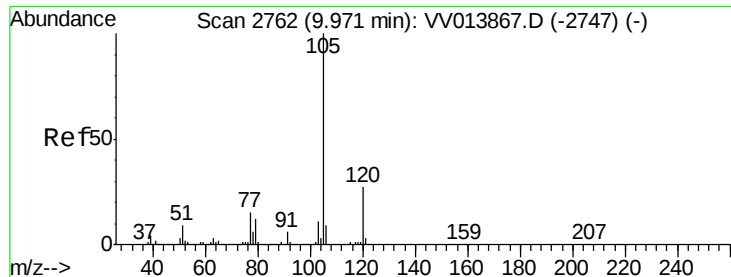
78 42.5 29.3 54.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0

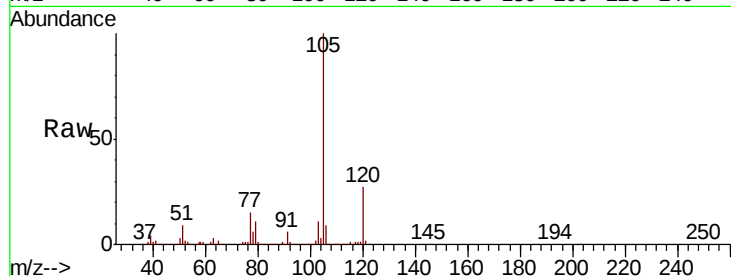




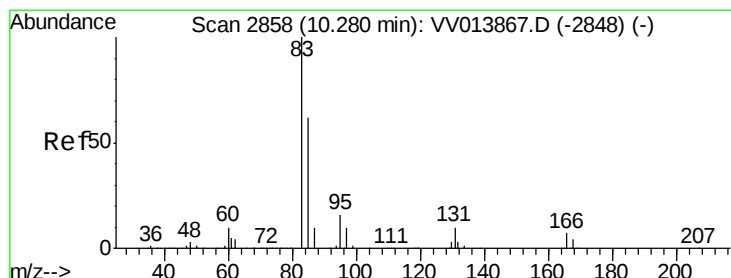
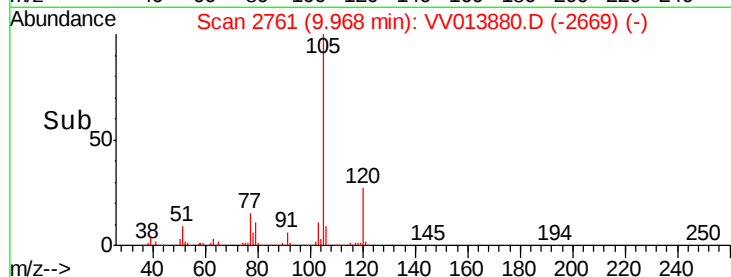
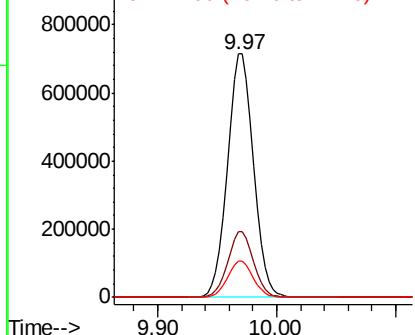
#56
Isopropylbenzene
Concen: 49.380 ug/L
RT: 9.97 min Scan# 2761
Delta R.T. -0.00 min
Lab File: VV013880.D
Acq: 02 Dec 2019 18:50

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:105 Resp: 1079690
Ion Ratio Lower Upper
105 100
120 26.8 21.4 32.2
77 14.7 12.0 18.0

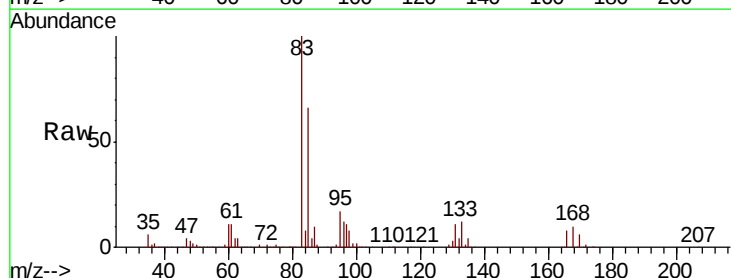


Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V
Ion 77.00 (76.70 to 77.70): V

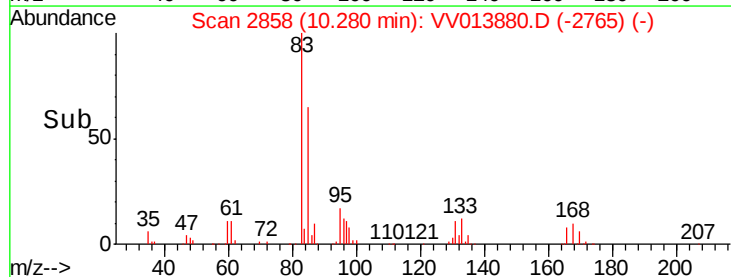
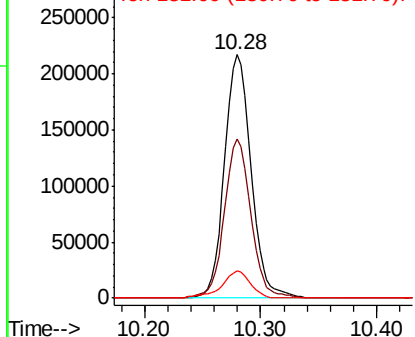


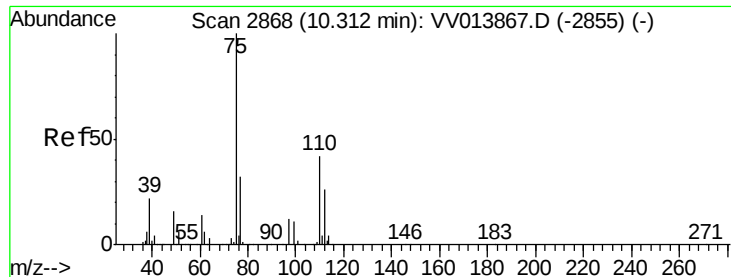
#58
1,1,2,2-Tetrachloroethane
Concen: 46.442 ug/L
RT: 10.28 min Scan# 2858
Delta R.T. 0.00 min
Lab File: VV013880.D
Acq: 02 Dec 2019 18:50

Tgt Ion: 83 Resp: 343556
Ion Ratio Lower Upper
83 100
85 65.6 44.1 81.9
131 11.0 8.8 13.2



Abundance Ion 83.00 (82.70 to 83.70): VV0
Ion 85.00 (84.70 to 85.70): VV0
Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 47.188 ug/L

RT: 10.31 min Scan# 2868

Delta R.T. 0.00 min

Lab File: VV013880.D

Acq: 02 Dec 2019 18:50

Instrument :

MSVOA_V

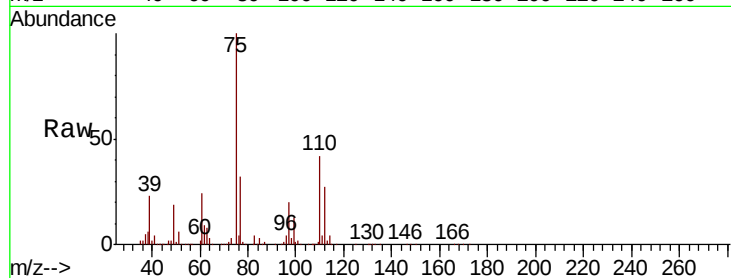
ClientSampled :

Tot Ion: 75 Resp: 292328

Ion Ratio Lower Upper

75 100

77 32.9 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VV013867.D (-2855) (-)

Ion 77.00 (76.70 to 77.70): VV013867.D (-2855) (-)

10.31

200000

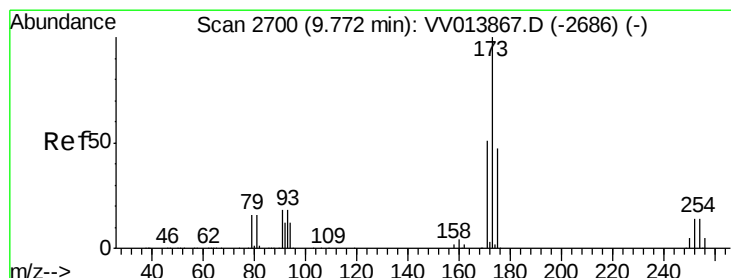
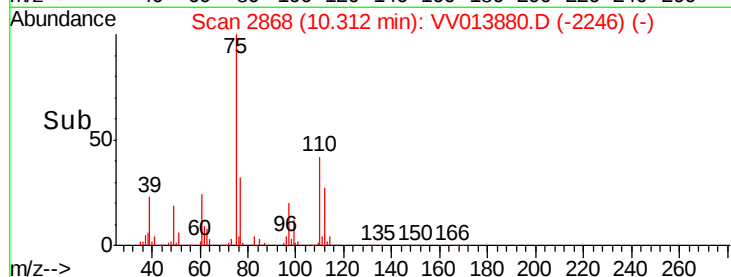
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 52.168 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. 0.00 min

Lab File: VV013880.D

Acq: 02 Dec 2019 18:50

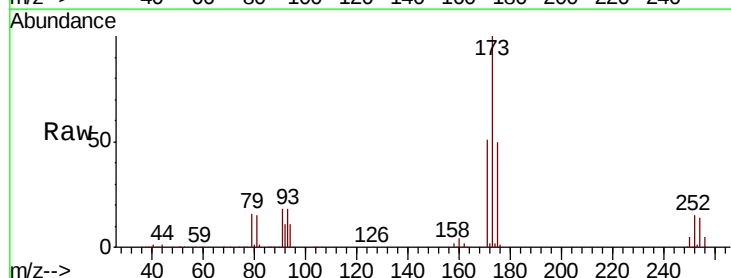
Tgt Ion: 173 Resp: 217708

Ion Ratio Lower Upper

173 100

175 50.1 38.4 57.6

254 13.7 10.5 15.7



Abundance Ion 173.00 (172.70 to 173.70): VV013867.D (-2686) (-)

Ion 175.00 (174.70 to 175.70): VV013867.D (-2686) (-)

Ion 254.00 (253.70 to 254.70): VV013867.D (-2686) (-)

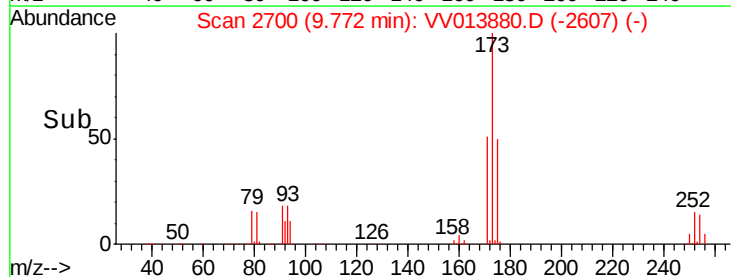
150000

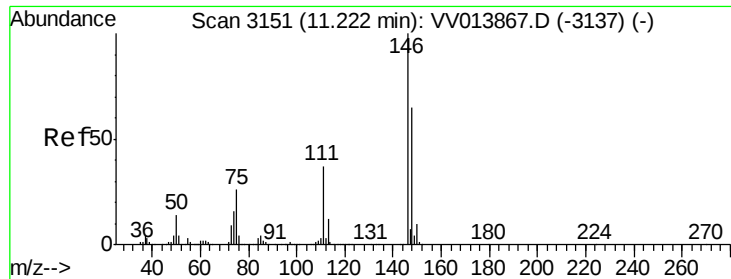
100000

50000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 48.214 ug/L

RT: 11.22 min Scan# 3151

Delta R.T. 0.00 min

Lab File: VV013880.D

Acq: 02 Dec 2019 18:50

Instrument :

MSVOA_V

ClientSampleId :

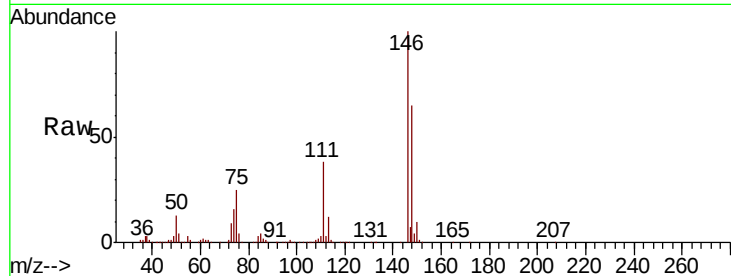
Tot Ion:146 Resp: 539711

Ion Ratio Lower Upper

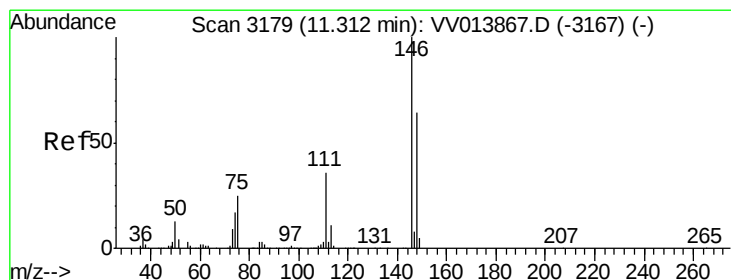
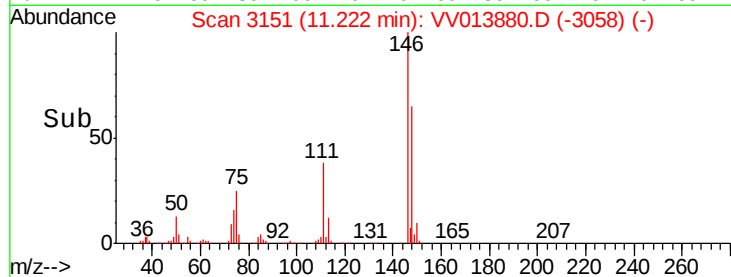
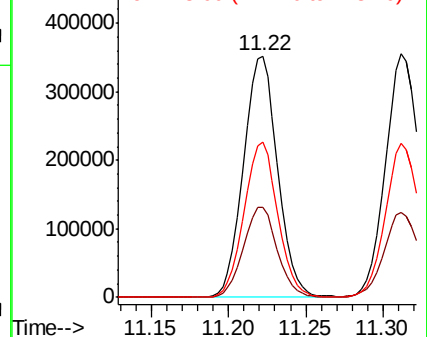
146 100

111 37.5 25.8 48.0

148 64.5 45.2 84.0



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: 47.344 ug/L

RT: 11.31 min Scan# 3179

Delta R.T. 0.00 min

Lab File: VV013880.D

Acq: 02 Dec 2019 18:50

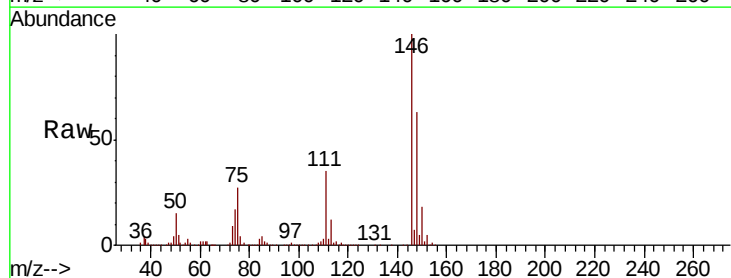
Tgt Ion:146 Resp: 547885

Ion Ratio Lower Upper

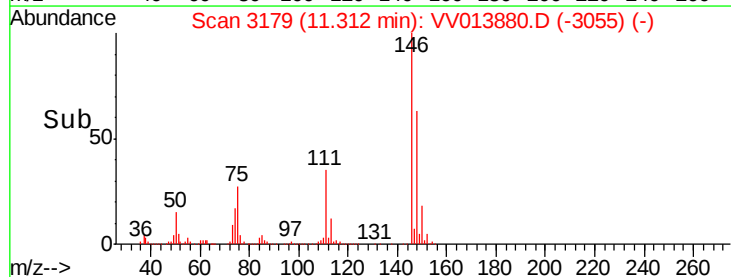
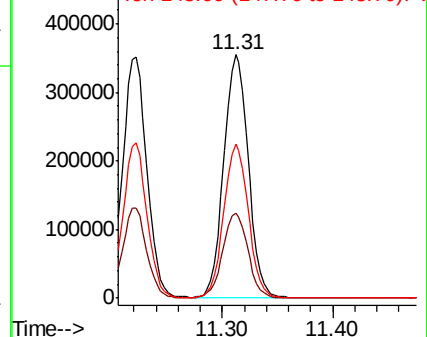
146 100

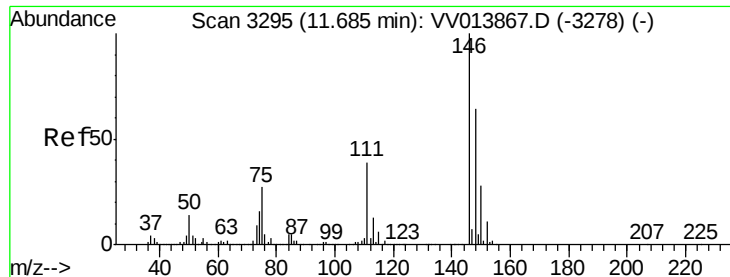
111 35.1 25.4 47.2

148 63.1 44.9 83.5



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

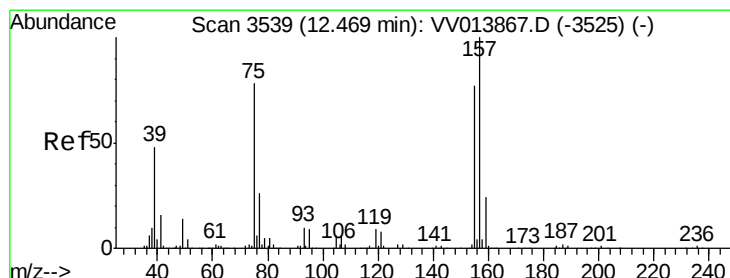
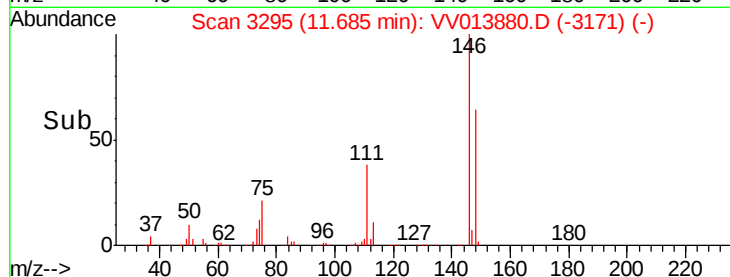
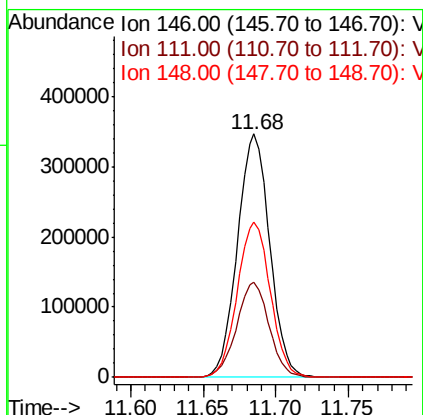
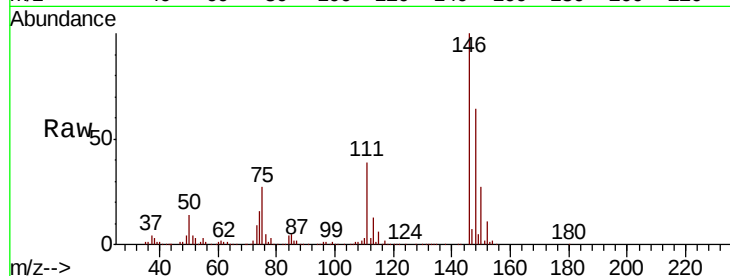




#65
 1,2-Dichlorobenzene
 Concen: 47.930 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. 0.00 min
 Lab File: VV013880.D
 Acq: 02 Dec 2019 18:50

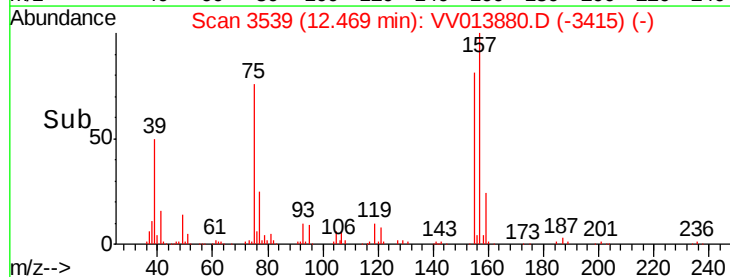
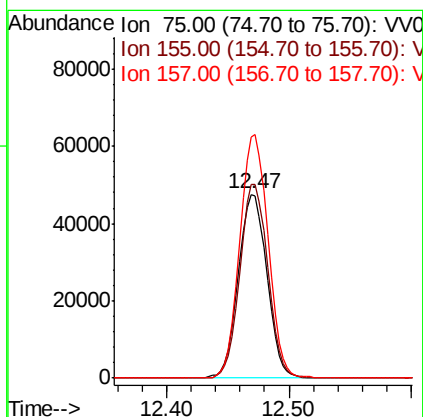
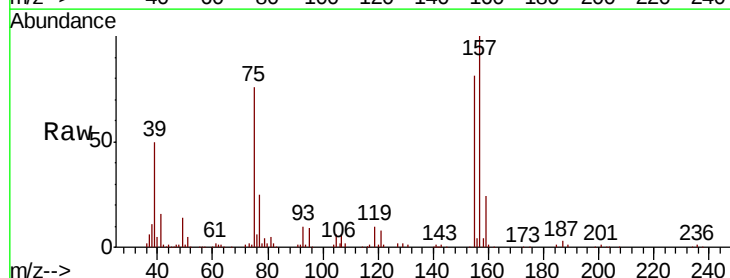
Instrument :
 MSVOA_V
 ClientSampleId :

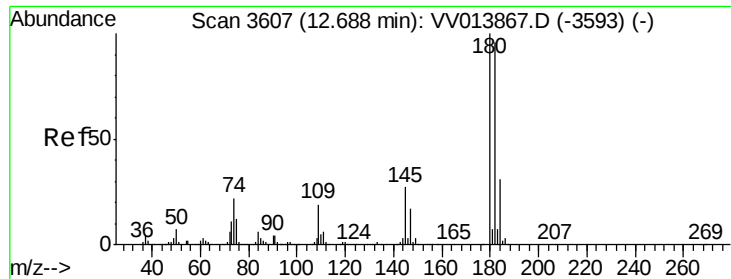
Tot Ion	Ratio	Lower	Upper
146	100		
111	39.0	31.4	47.0
148	63.9	51.5	77.3



#66
 1,2-Dibromo-3-chloropropane
 Concen: 49.652 ug/L
 RT: 12.47 min Scan# 3539
 Delta R.T. 0.00 min
 Lab File: VV013880.D
 Acq: 02 Dec 2019 18:50

Tgt Ion	Ratio	Lower	Upper
75	100		
155	105.6	78.6	117.8
157	131.2	102.6	153.8

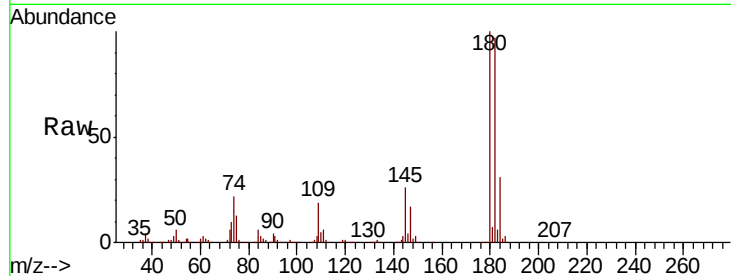




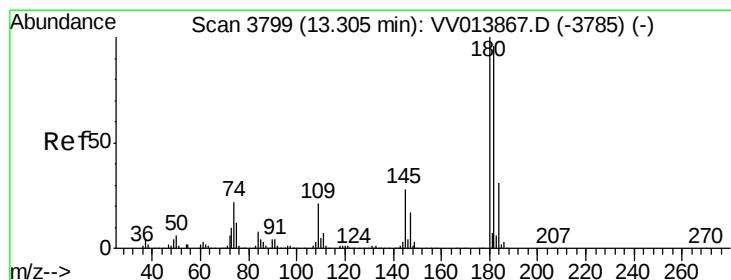
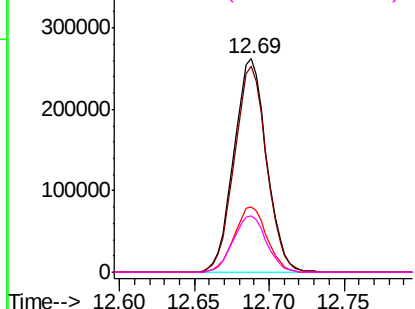
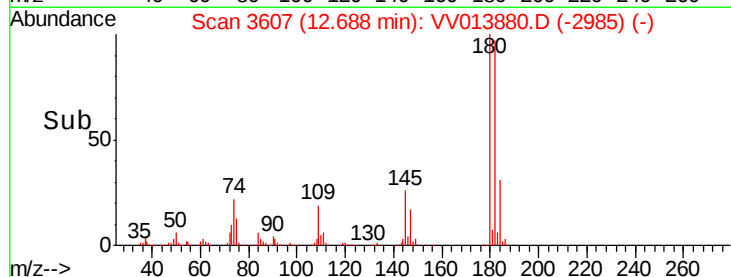
#67
 1,3,5-Trichlorobenzene
 Concen: 43.837 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VV013880.D
 Acq: 02 Dec 2019 18:50

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:180	Resp:	398492
Ion Ratio	Lower	Upper
180	100	
182	95.2	76.2 114.4
184	30.6	24.2 36.4
145	26.7	21.1 31.7

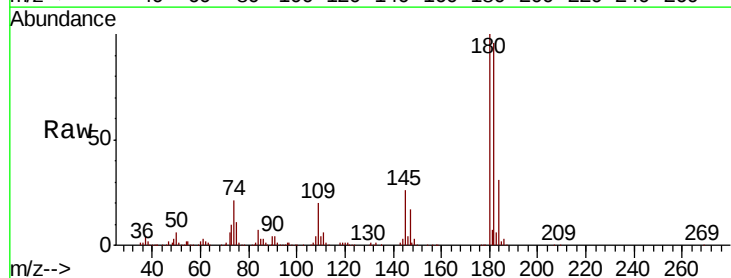


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

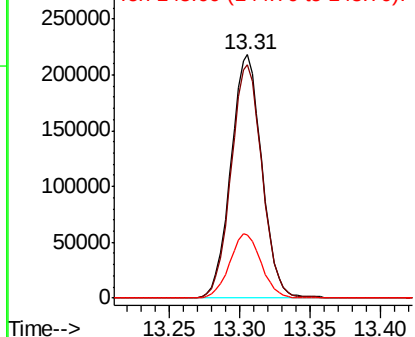
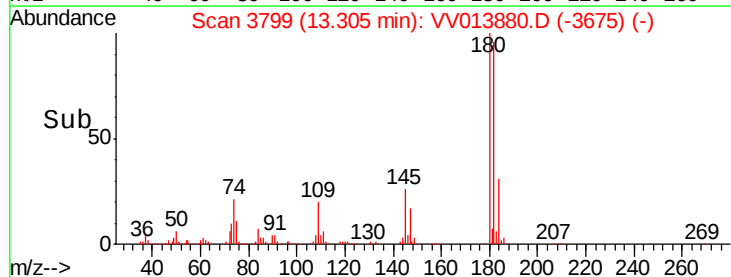


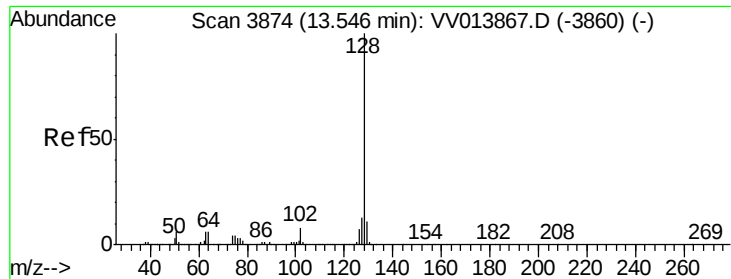
#68
 1,2,4-trichlorobenzene
 Concen: 40.925 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV013880.D
 Acq: 02 Dec 2019 18:50

Tgt Ion:180	Resp:	335680
Ion Ratio	Lower	Upper
180	100	
182	95.7	76.2 114.4
145	26.7	21.9 32.9



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





#69

Naphthalene

Concen: 36.661 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. 0.00 min

Lab File: VV013880.D

Acq: 02 Dec 2019 18:50

Instrument :

MSVOA_V

ClientSampleId :

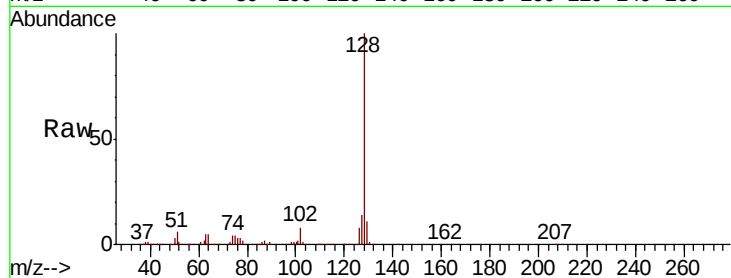
Tot Ion:128 Resp: 789562

Ion Ratio Lower Upper

128 100

127 13.5 10.5 15.7

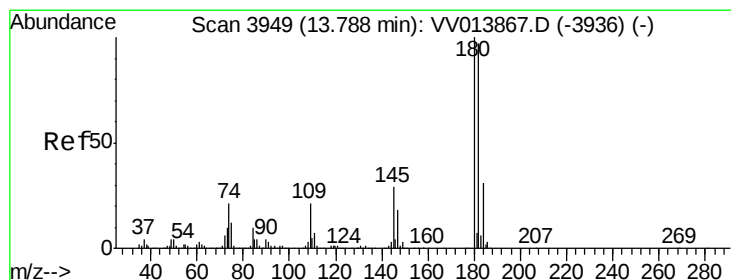
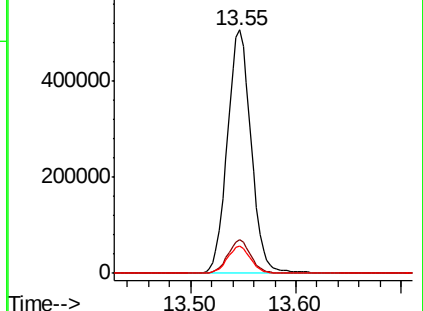
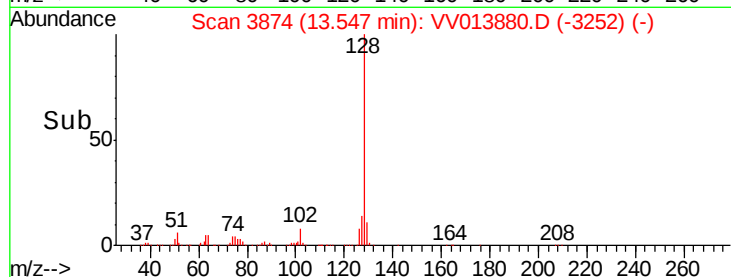
129 10.9 8.6 12.8



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



#70

1,2,3-Trichlorobenzene

Concen: 41.869 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. 0.00 min

Lab File: VV013880.D

Acq: 02 Dec 2019 18:50

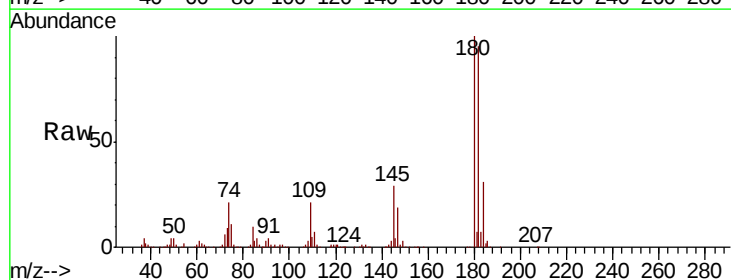
Tgt Ion:180 Resp: 359143

Ion Ratio Lower Upper

180 100

182 95.4 77.0 115.4

145 28.4 22.6 34.0



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

