

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV091319\
 Data File : VV012731.D
 Acq On : 13 Sep 2019 13:57
 Operator : SY/MD
 Sample : VSTD01064
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 13 18:27:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM091319WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Sep 13 18:23:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	721815	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	688165	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	304611	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	41485	10.14	ug/L	0.00
7) Chloroethane-d5	1.58	69	38739	10.58	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.13	63	79063	9.94	ug/L	0.00
21) 2-Butanone-d5	3.93	46	85132	20.07	ug/L	0.00
24) Chloroform-d	4.40	84	104708	10.33	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	64632	10.51	ug/L	0.00
32) Benzene-d6	5.10	84	188654	10.27	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.12	67	67840	10.47	ug/L	0.00
41) Toluene-d8	7.36	98	162171	9.65	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.66	79	25138	9.31	ug/L	0.00
47) 2-Hexanone-d5	8.13	63	37737	15.18	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.26	84	78776	9.50	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.67	152	71919	10.34	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	41108	8.507	ug/L 99
3) Chloromethane	1.25	50	43223	8.572	ug/L 99
5) Vinyl chloride	1.32	62	42414	8.412	ug/L 99
6) Bromomethane	1.53	94	26819	9.457	ug/L 97
8) Chloroethane	1.60	64	27513	8.736	ug/L 99
9) Trichlorofluoromethane	1.77	101	58894	8.324	ug/L 97
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	36861	8.440	ug/L 99
12) 1,1-Dichloroethene	2.14	96	32459	8.531	ug/L 97
13) Acetone	2.19	43	58565	16.724	ug/L 99
14) Carbon disulfide	2.32	76	68925	8.301	ug/L 98
15) Methyl Acetate	2.46	43	46870	8.432	ug/L 99
16) Methylene chloride	2.54	84	42771	8.567	ug/L 97
17) trans-1,2-Dichloroethene	2.79	96	35339	8.497	ug/L 96
18) Methyl tert-butyl Ether	2.80	73	115292	8.037	ug/L 99
19) 1,1-Dichloroethane	3.23	63	75019	8.345	ug/L 98
20) cis-1,2-Dichloroethene	3.96	96	41960	8.154	ug/L 98
22) 2-Butanone	4.02	43	65419	15.036	ug/L 96
23) Bromochloromethane	4.30	128	21160	8.094	ug/L 91
25) Chloroform	4.43	83	80263	8.498	ug/L 95
27) 1,2-Dichloroethane	5.18	62	59134	8.366	ug/L 96
29) Cyclohexane	4.73	56	49742	7.614	ug/L 98
30) 1,1,1-Trichloroethane	4.66	97	60873	8.460	ug/L 99
31) Carbon tetrachloride	4.87	117	51360	8.290	ug/L 98
33) Benzene	5.15	78	153249	8.187	ug/L 100
34) Trichloroethene	5.96	95	47512	8.732	ug/L 97
35) Methylcyclohexane	6.18	83	51808	7.548	ug/L 97
37) 1,2-Dichloropropane	6.22	63	44901	8.341	ug/L # 96
38) Bromodichloromethane	6.55	83	56768	8.193	ug/L 99
39) cis-1,3-Dichloropropene	7.07	75	57562	7.638	ug/L 99
40) 4-Methyl-2-pentanone	7.27	43	110752	14.866	ug/L 97

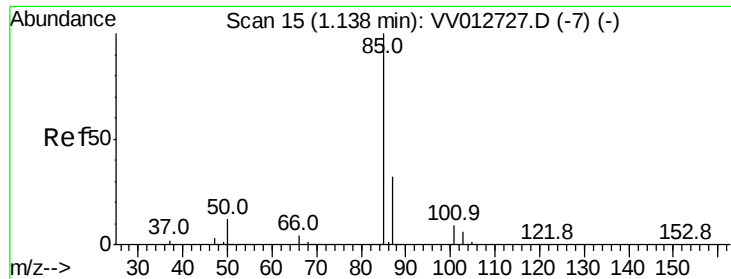
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV091319\
 Data File : VV012731.D
 Acq On : 13 Sep 2019 13:57
 Operator : SY/MD
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 Quant Title : VOC Analysis
 QLast Update : Fri Sep 13 18:23:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.43	91	151778	7.808	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	50591	7.614	ug/L	99
45) 1,1,2-Trichloroethane	7.88	97	42861	8.161	ug/L	99
46) Tetrachloroethene	8.02	164	31011	8.216	ug/L	98
48) 2-Hexanone	8.18	43	91621	14.957	ug/L	97
49) Dibromochloromethane	8.29	129	42991	7.812	ug/L	99
50) 1,2-Dibromoethane	8.40	107	41823	8.266	ug/L	98
51) Chlorobenzene	8.92	112	107978	8.108	ug/L	99
52) Ethylbenzene	9.05	91	159200	7.450	ug/L	100
53) m,p-Xylene	9.18	106	56368	7.162	ug/L	100
54) o-xylene	9.59	106	57870	7.243	ug/L	99
55) Styrene	9.60	104	95022	7.012	ug/L	99
56) Isopropylbenzene	9.97	105	148765	7.087	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.28	83	54280	7.569	ug/L	99
59) 1,2,3-Trichloropropane	10.31	75	56364	8.226	ug/L	99
61) Bromoform	9.77	173	30804	8.375	ug/L	99
62) 1,3-Dichlorobenzene	11.22	146	77212	8.206	ug/L	98
63) 1,4-Dichlorobenzene	11.31	146	81406	8.435	ug/L	97
65) 1,2-Dichlorobenzene	11.69	146	82793	8.369	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.47	75	9972	7.551	ug/L	89
67) 1,3,5-Trichlorobenzene	12.69	180	55317	7.958	ug/L	100
68) 1,2,4-trichlorobenzene	13.31	180	43310	7.375	ug/L	98
69) Naphthalene	13.55	128	110597	6.514	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	48450	7.600	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 8.507 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012731.D

Acq: 13 Sep 2019 13:57

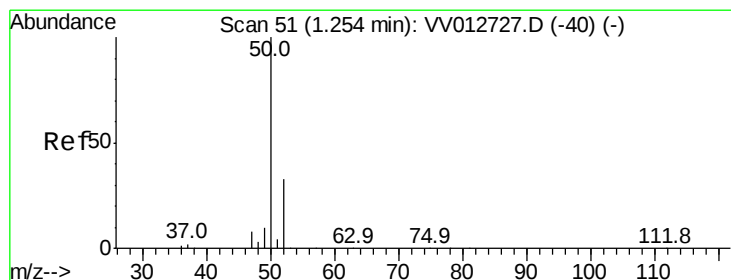
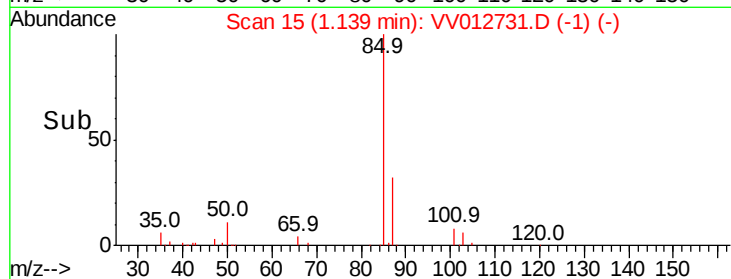
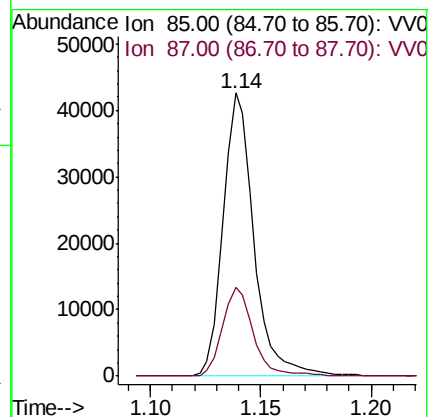
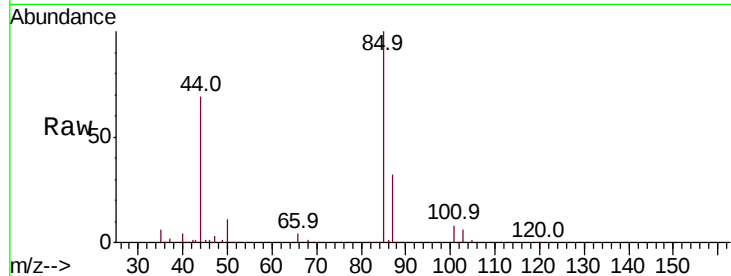
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 85 Resp: 41108

Ion Ratio Lower Upper

85 100

87 31.4 25.8 38.6



#3

Chloromethane

Concen: 8.572 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV012731.D

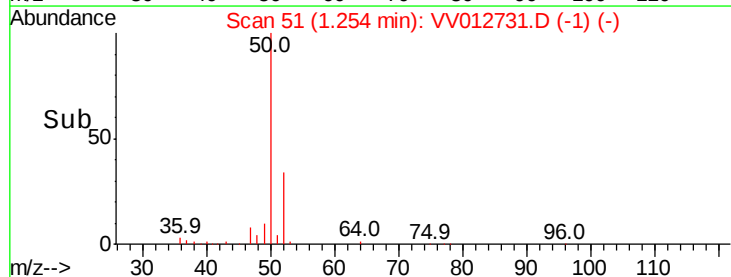
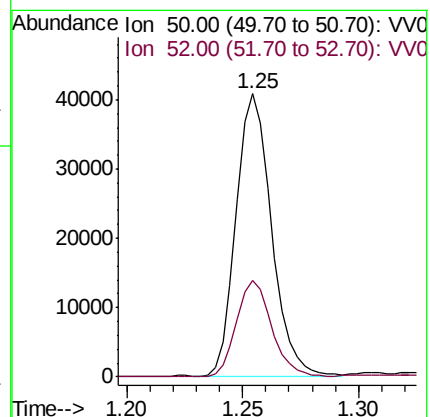
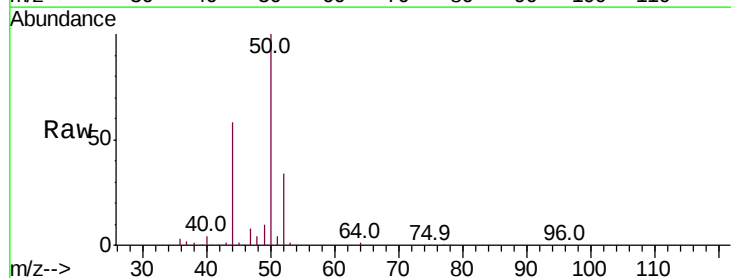
Acq: 13 Sep 2019 13:57

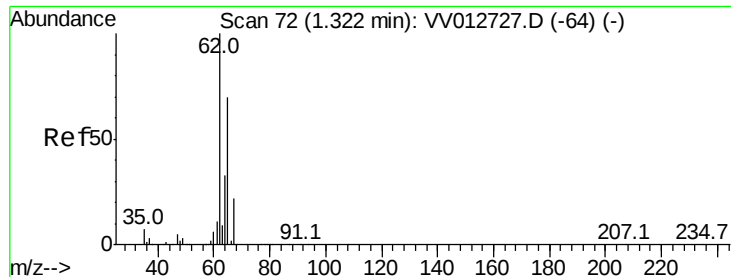
Tgt Ion: 50 Resp: 43223

Ion Ratio Lower Upper

50 100

52 34.0 23.4 43.4





#5

Vinyl chloride

Concen: 8.412 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV012731.D

Acq: 13 Sep 2019 13:57

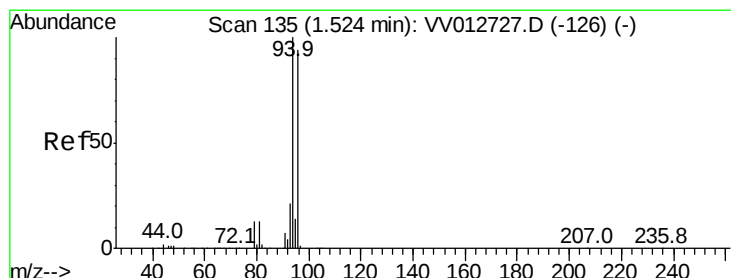
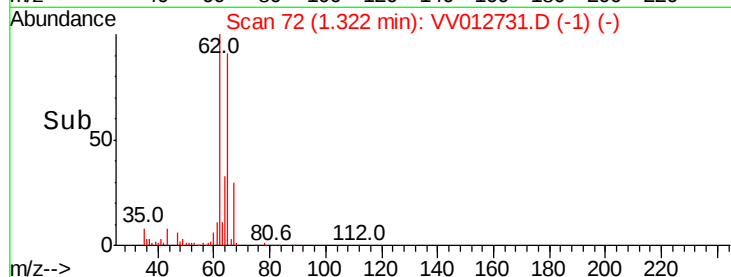
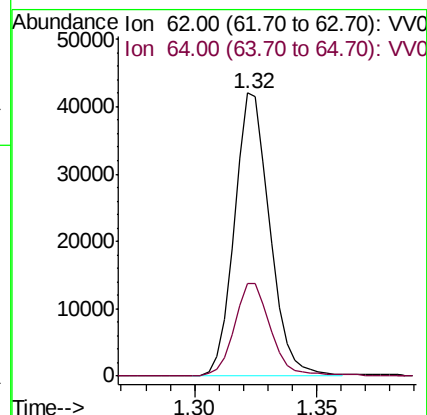
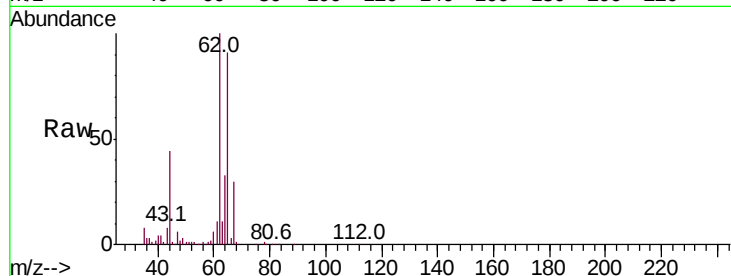
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 62 Resp: 42414

Ion Ratio Lower Upper

62 100

64 32.9 23.2 43.2



#6

Bromomethane

Concen: 9.457 ug/L

RT: 1.53 min Scan# 137

Delta R.T. 0.01 min

Lab File: VV012731.D

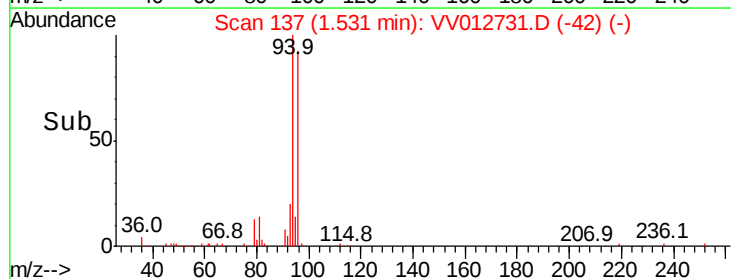
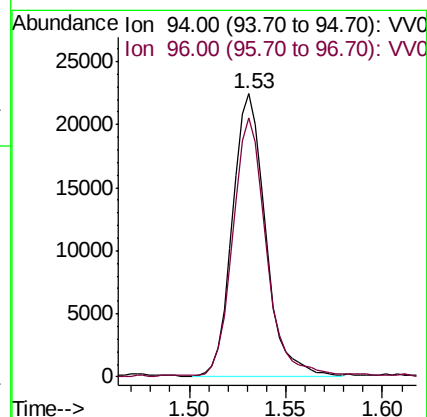
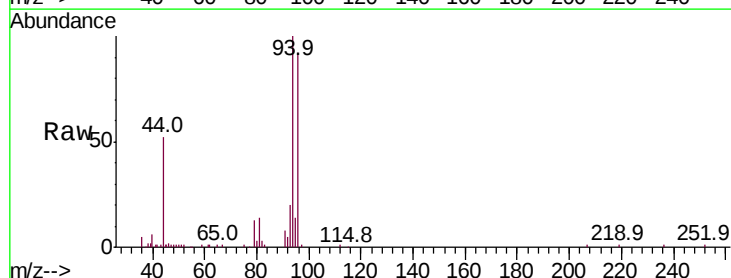
Acq: 13 Sep 2019 13:57

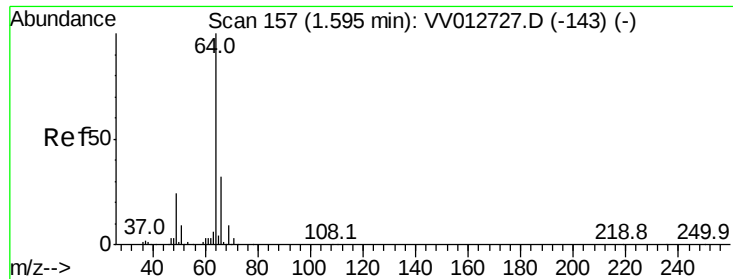
Tgt Ion: 94 Resp: 26819

Ion Ratio Lower Upper

94 100

96 91.6 65.9 122.3





#8

Chloroethane

Concen: 8.736 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV012731.D

Acq: 13 Sep 2019 13:57

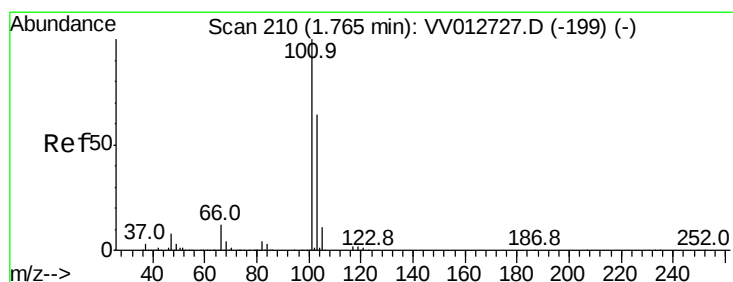
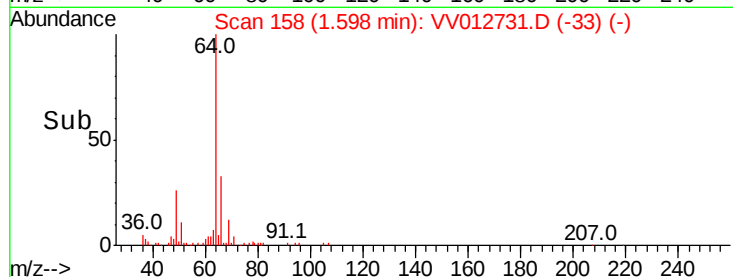
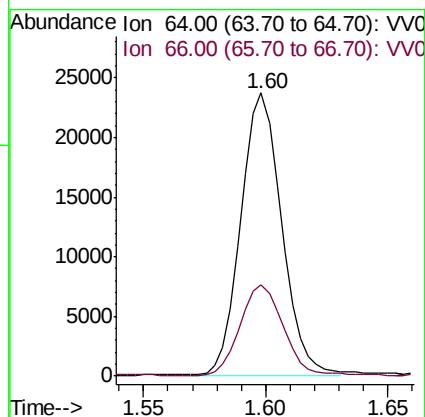
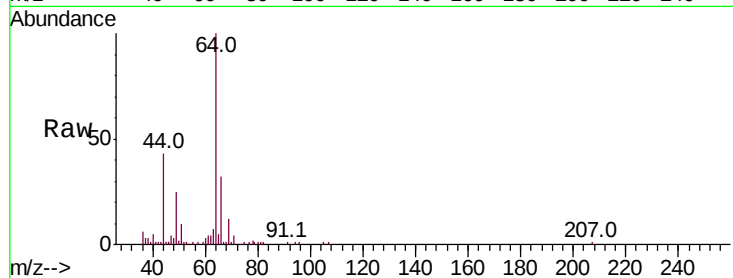
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 64 Resp: 27513

Ion Ratio Lower Upper

64 100

66 32.4 22.4 41.6



#9

Trichlorofluoromethane

Concen: 8.324 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.00 min

Lab File: VV012731.D

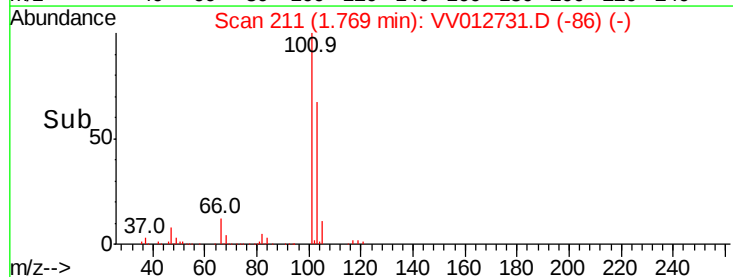
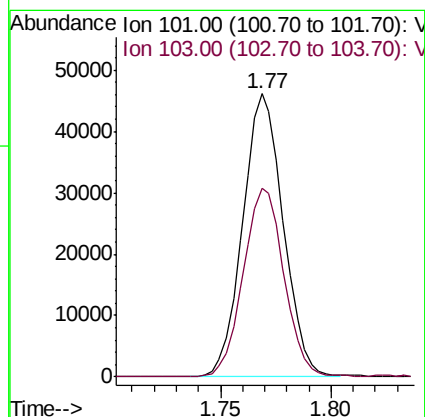
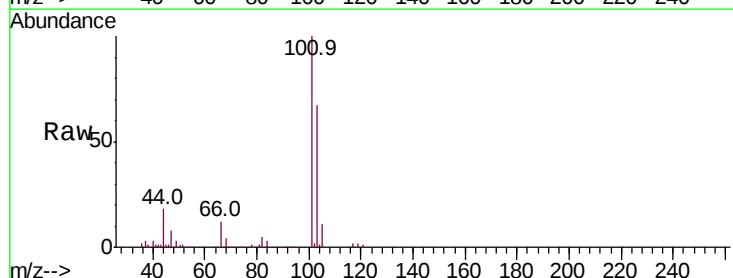
Acq: 13 Sep 2019 13:57

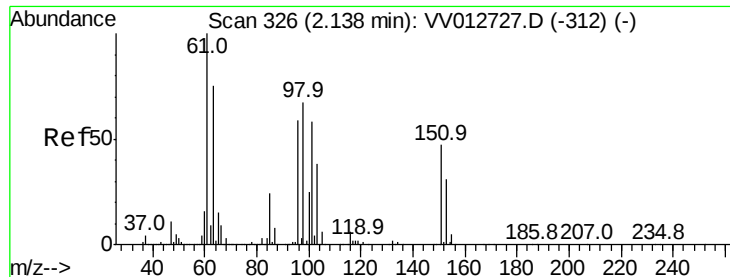
Tgt Ion: 101 Resp: 58894

Ion Ratio Lower Upper

101 100

103 66.7 51.4 77.2





#10

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

Concen: 8.440 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012731.D

Acq: 13 Sep 2019 13:57

Instrument :

MSVOA_V

ClientSampled :

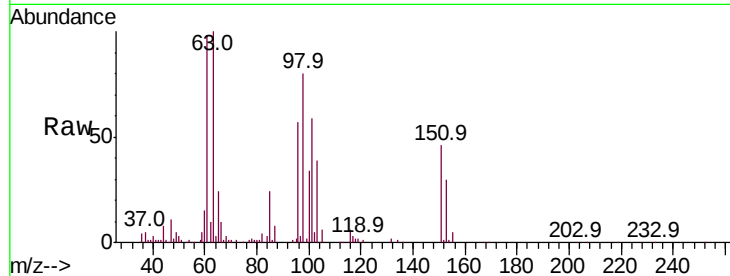
Tot Ion:101 Resp: 36861

Ion Ratio Lower Upper

101 100

85 41.6 32.7 49.1

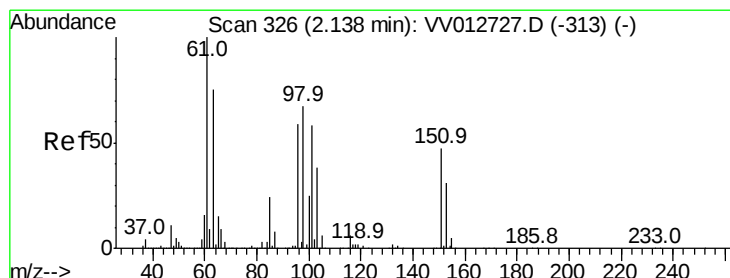
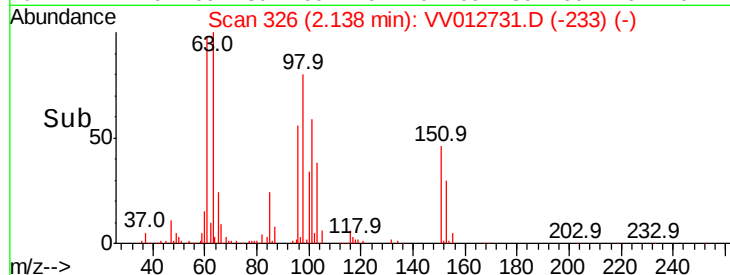
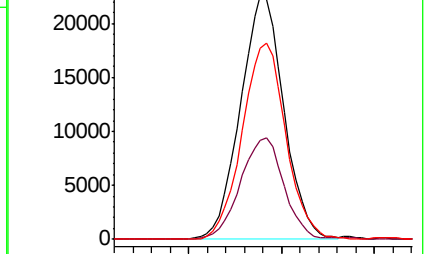
151 80.9 65.0 97.4



Abundance Ion 101.00 (100.70 to 101.70): VV012731.D (-233) (-)

Ion 85.00 (84.70 to 85.70): VV012731.D (-233) (-)

Ion 151.00 (150.70 to 151.70): VV012731.D (-233) (-)



#12

1,1-Dichloroethene

Concen: 8.531 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV012731.D

Acq: 13 Sep 2019 13:57

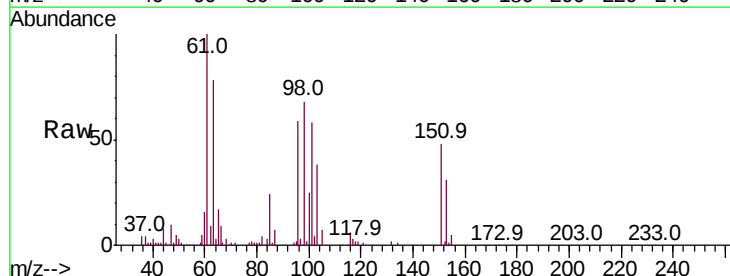
Tgt Ion: 96 Resp: 32459

Ion Ratio Lower Upper

96 100

61 170.5 118.0 219.2

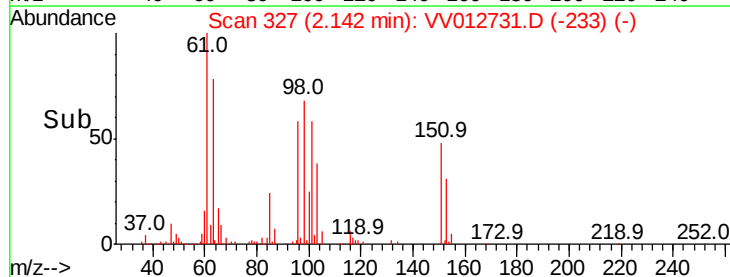
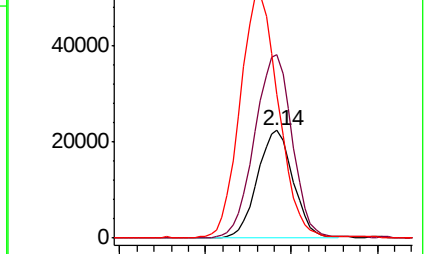
63 133.0 89.2 165.6

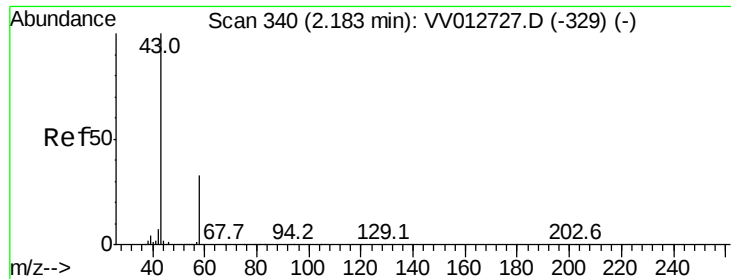


Abundance Ion 96.00 (95.70 to 96.70): VV012731.D (-233) (-)

Ion 61.00 (60.70 to 61.70): VV012731.D (-233) (-)

Ion 63.00 (62.70 to 63.70): VV012731.D (-233) (-)





#13

Acetone

Concen: 16.724 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

Lab File: VV012731.D

Acq: 13 Sep 2019 13:57

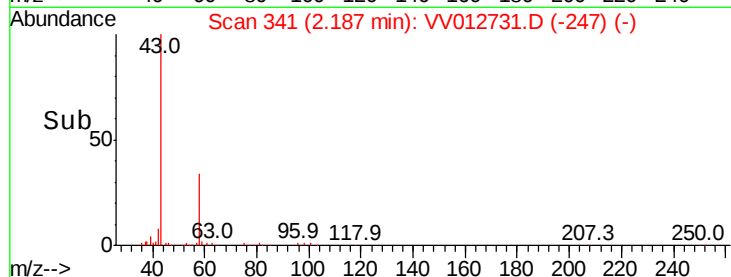
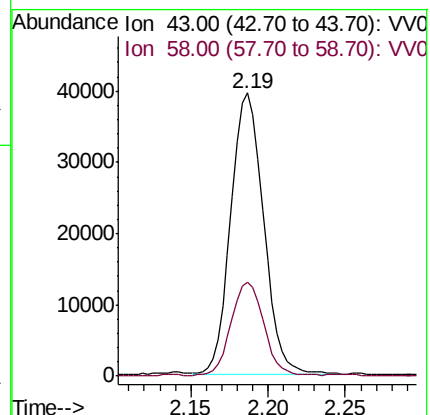
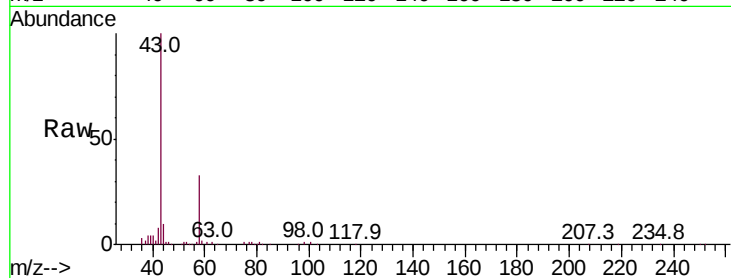
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 58565

Ion Ratio Lower Upper

43 100

58 33.6 0.0 66.4



#14

Carbon disulfide

Concen: 8.301 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV012731.D

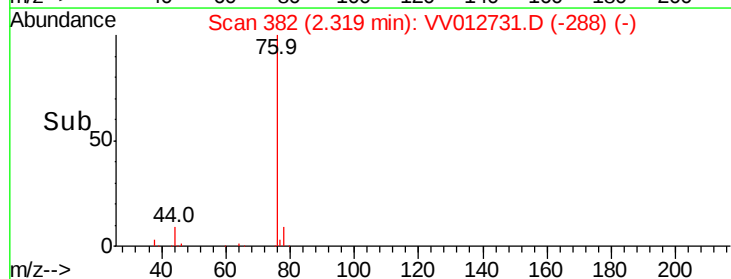
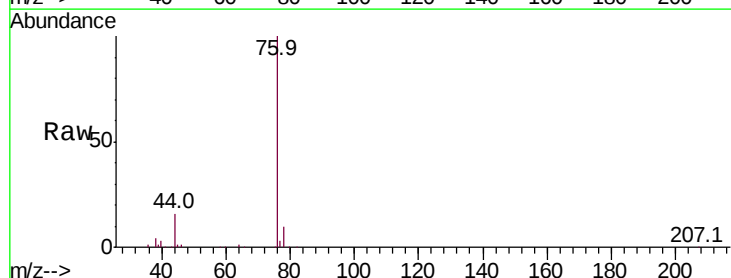
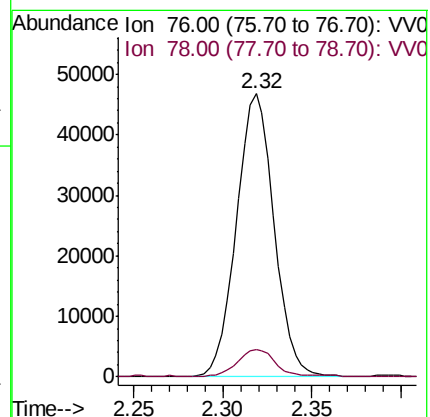
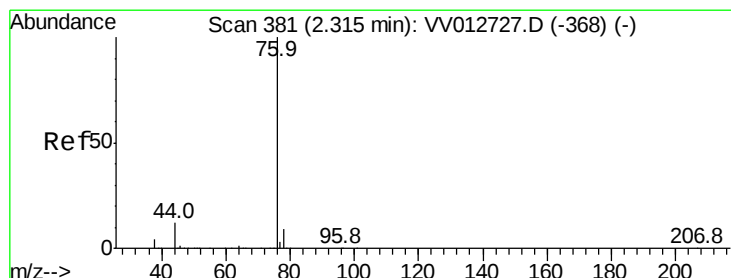
Acq: 13 Sep 2019 13:57

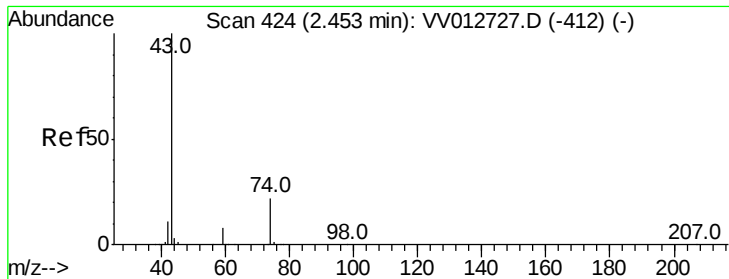
Tgt Ion: 76 Resp: 68925

Ion Ratio Lower Upper

76 100

78 9.6 7.2 10.8

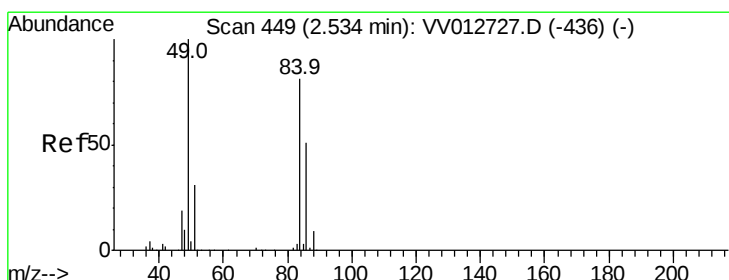
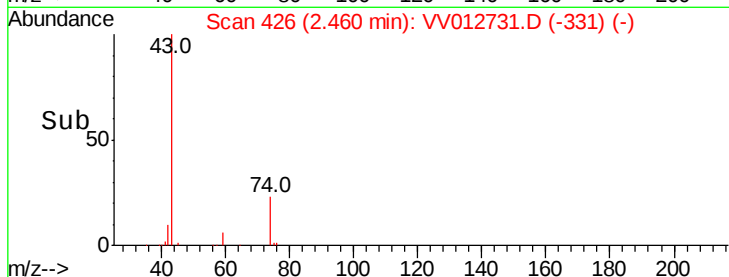
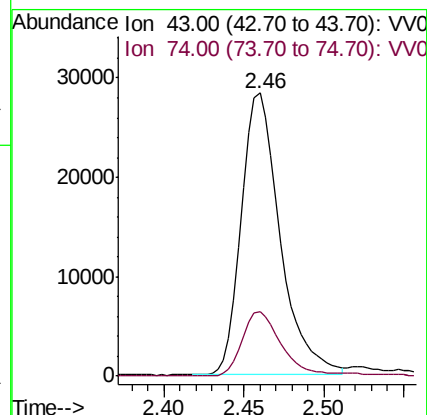
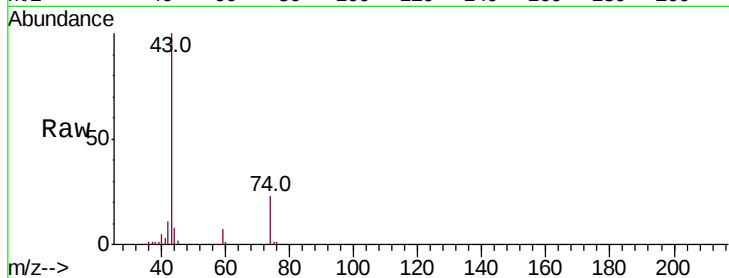




#15
Methvl Acetate
Concen: 8.432 ug/L
RT: 2.46 min Scan# 426
Delta R.T. 0.01 min
Lab File: VV012731.D
Acq: 13 Sep 2019 13:57

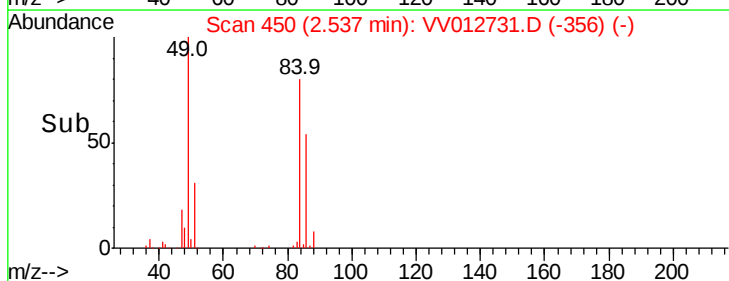
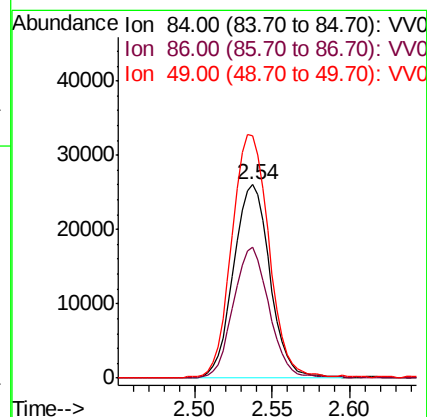
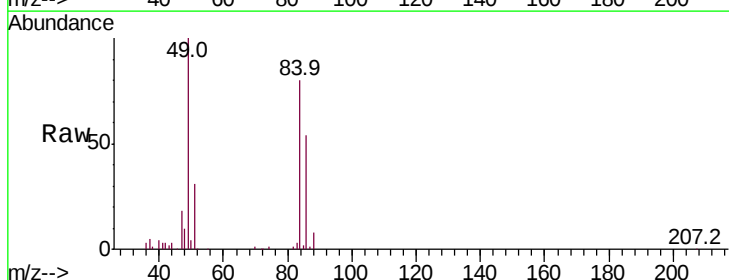
Instrument :
MSVOA_V
ClientSampleId :

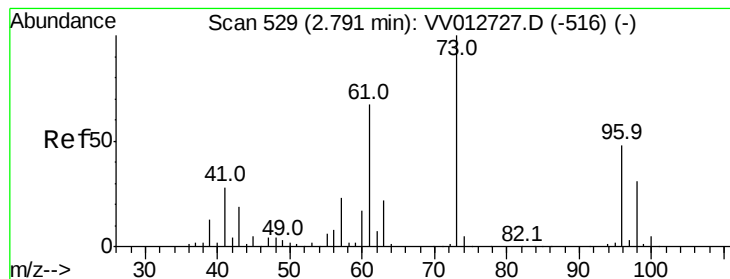
Tot Ion: 43 Resp: 46870
Ion Ratio Lower Upper
43 100
74 23.5 18.6 27.8



#16
Methylene chloride
Concen: 8.567 ug/L
RT: 2.54 min Scan# 450
Delta R.T. 0.00 min
Lab File: VV012731.D
Acq: 13 Sep 2019 13:57

Tgt Ion: 84 Resp: 42771
Ion Ratio Lower Upper
84 100
86 67.4 44.0 81.8
49 125.0 86.2 160.0





#17

trans-1,2-Dichloroethene

Concen: 8.497 ug/L

RT: 2.79 min Scan# 530

Delta R.T. 0.00 min

Lab File: VV012731.D

Acq: 13 Sep 2019 13:57

Instrument :
MSVOA_V
ClientSampled :

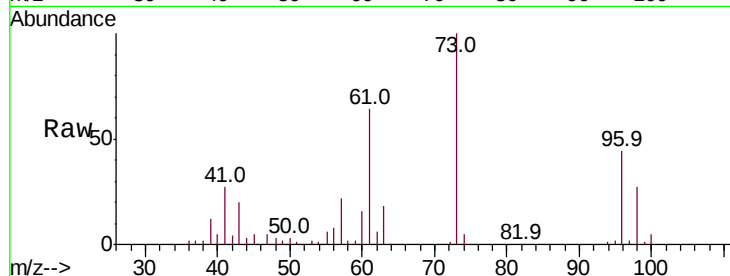
Tot Ion: 96 Resp: 35339

Ion Ratio Lower Upper

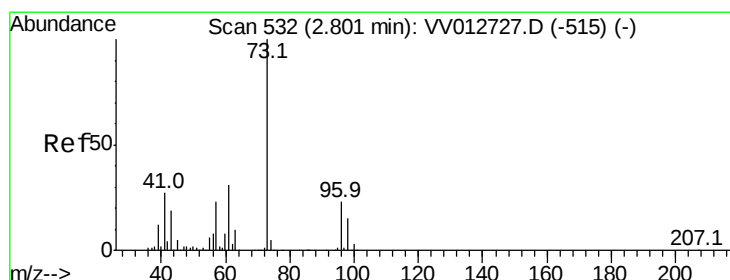
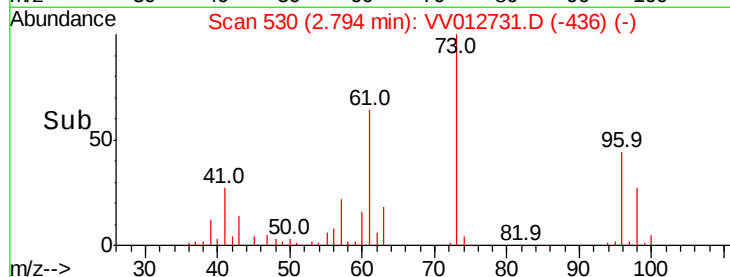
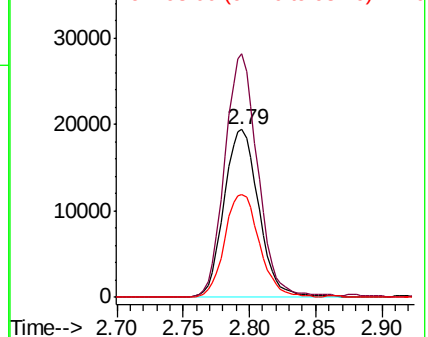
96 100

61 144.9 98.3 182.5

98 61.5 45.0 83.6



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: 8.037 ug/L

RT: 2.80 min Scan# 533

Delta R.T. 0.00 min

Lab File: VV012731.D

Acq: 13 Sep 2019 13:57

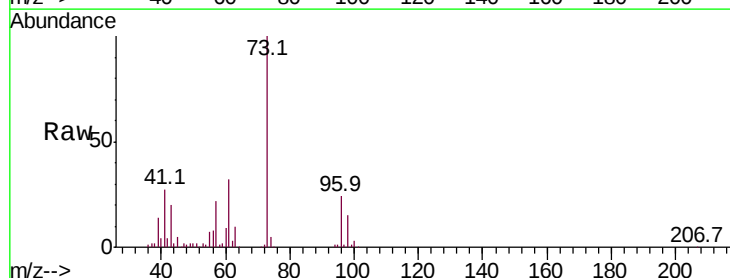
Tgt Ion: 73 Resp: 115292

Ion Ratio Lower Upper

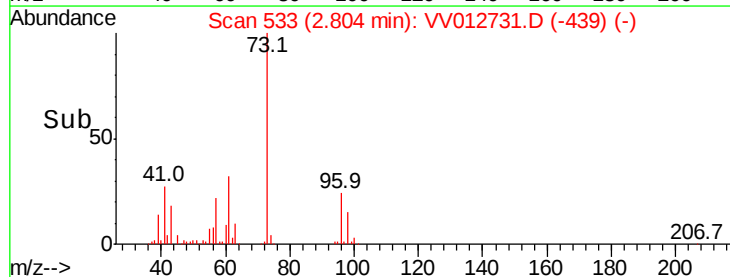
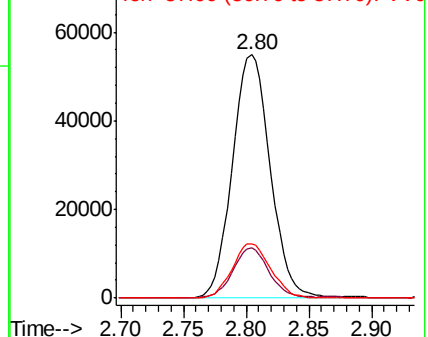
73 100

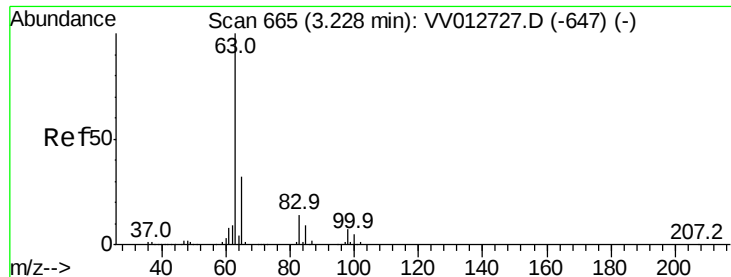
43 19.0 15.4 23.2

57 22.6 18.4 27.6



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

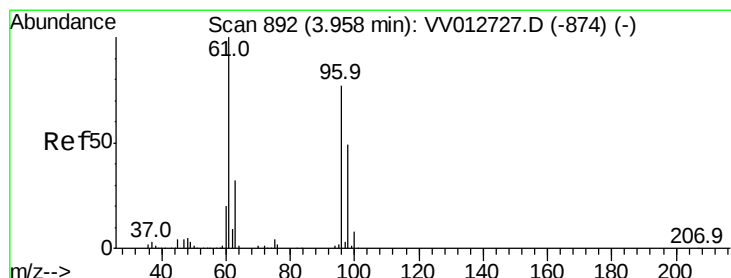
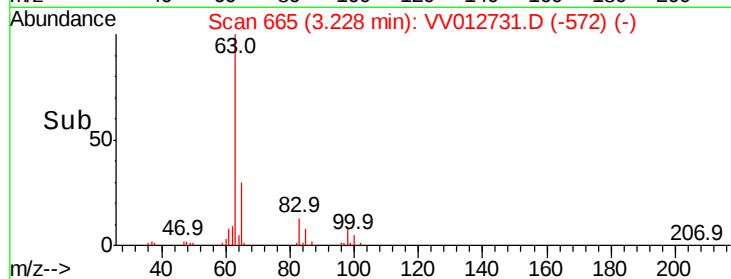
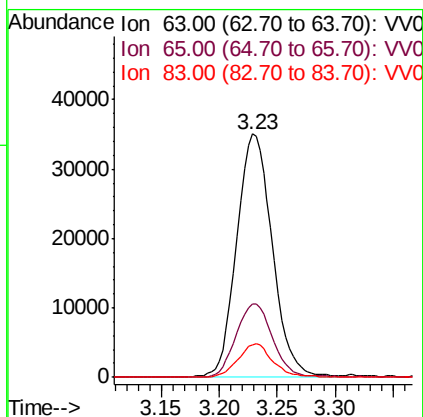
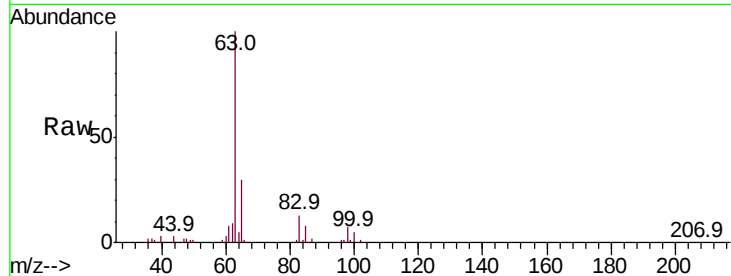




#19
 1,1-Dichloroethane
 Concen: 8.345 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. 0.00 min
 Lab File: VV012731.D
 Acq: 13 Sep 2019 13:57

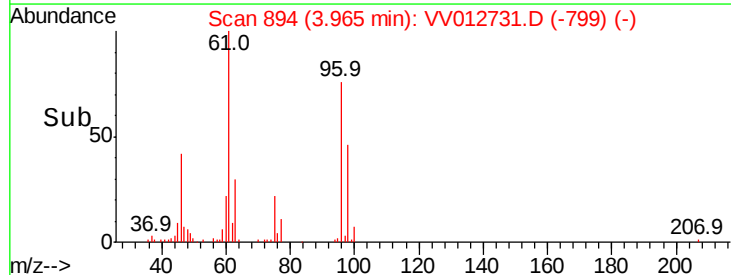
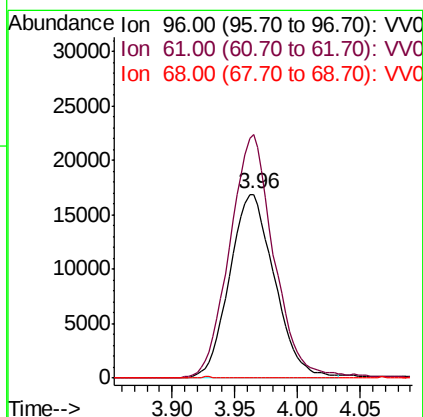
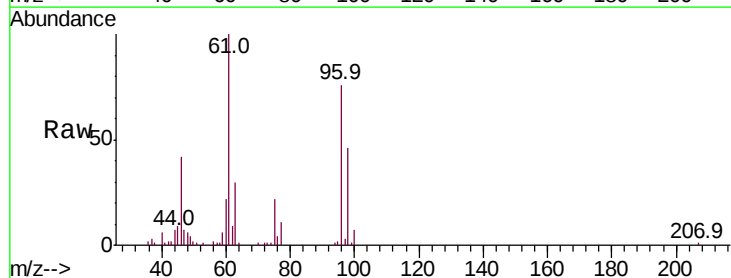
Instrument :
 MSVOA_V
 ClientSampleId :

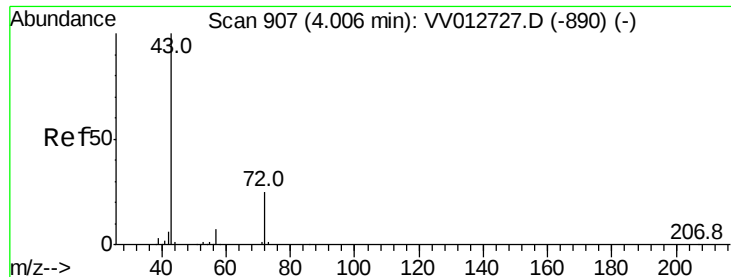
Tot Ion: 63 Resp: 75019
 Ion Ratio Lower Upper
 63 100
 65 30.3 22.2 41.2
 83 13.4 9.6 17.8



#20
 cis-1,2-Dichloroethene
 Concen: 8.154 ug/L
 RT: 3.96 min Scan# 894
 Delta R.T. 0.01 min
 Lab File: VV012731.D
 Acq: 13 Sep 2019 13:57

Tgt Ion: 96 Resp: 41960
 Ion Ratio Lower Upper
 96 100
 61 132.4 90.6 168.3
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 15.036 ug/L

RT: 4.02 min Scan# 910

Delta R.T. 0.01 min

Lab File: VV012731.D

Acq: 13 Sep 2019 13:57

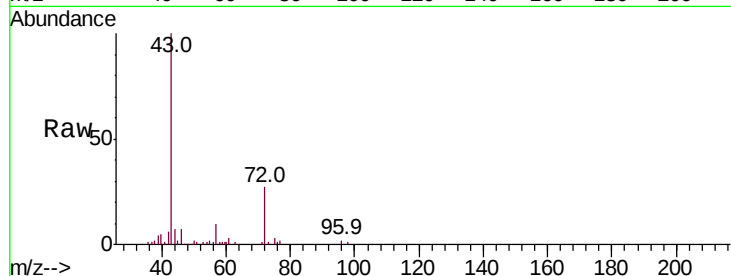
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 65419

Ion Ratio Lower Upper

43 100

72 24.6 13.2 39.6



Abundance Ion 43.00 (42.70 to 43.70): VV012727.D (-890) (-)

Ion 72.00 (71.70 to 72.70): VV012727.D (-890) (-)

4.02

25000

20000

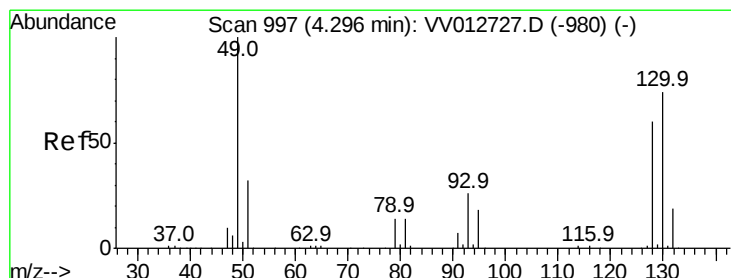
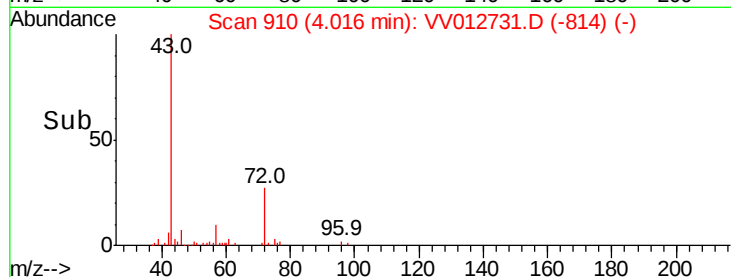
15000

10000

5000

0

Time--> 3.90 4.00 4.10



#23

Bromochloromethane

Concen: 8.094 ug/L

RT: 4.30 min Scan# 998

Delta R.T. 0.00 min

Lab File: VV012731.D

Acq: 13 Sep 2019 13:57

Tgt Ion: 128 Resp: 21160

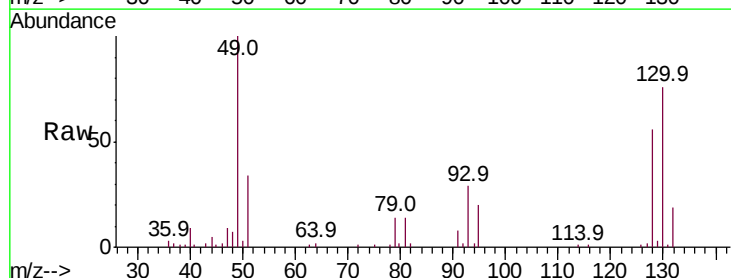
Ion Ratio Lower Upper

128 100

49 178.0 117.2 217.8

130 135.2 86.7 160.9

51 61.1 42.3 63.5



Abundance Ion 128.00 (127.70 to 128.70): VV012727.D (-980) (-)

Ion 49.00 (48.70 to 49.70): VV012727.D (-980) (-)

Ion 130.00 (129.70 to 130.70): VV012727.D (-980) (-)

Ion 51.00 (50.70 to 51.70): VV012727.D (-980) (-)

20000

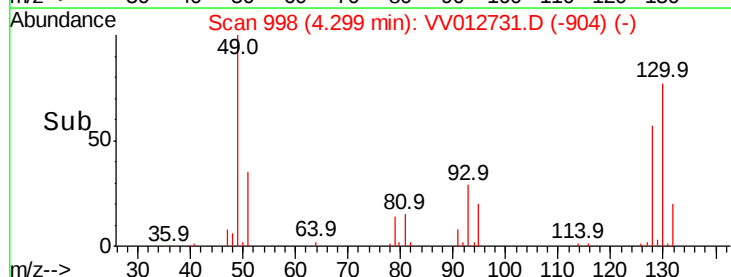
15000

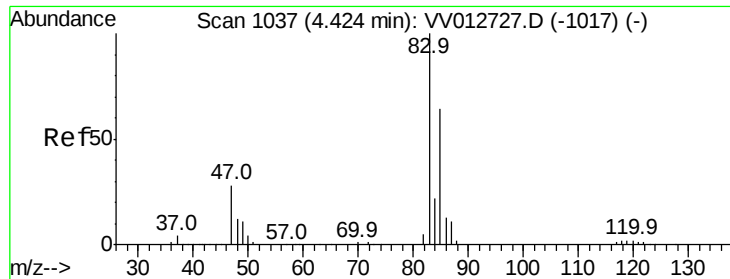
10000

5000

0

Time--> 4.20 4.25 4.30 4.35 4.40

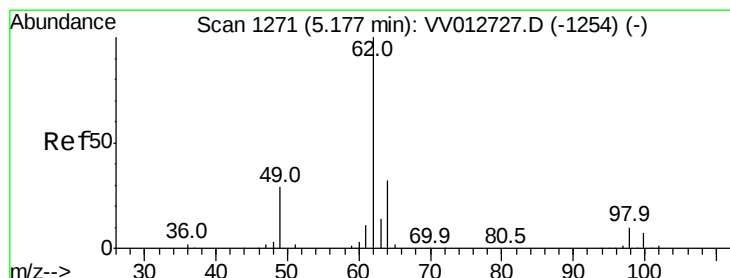
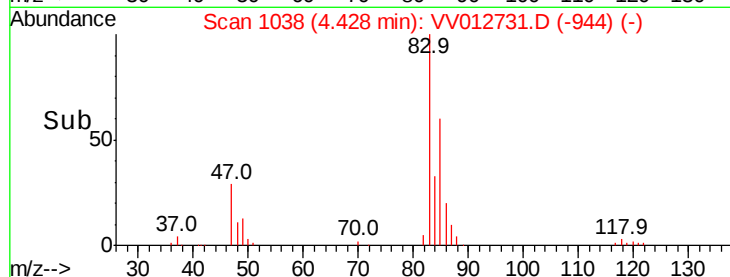
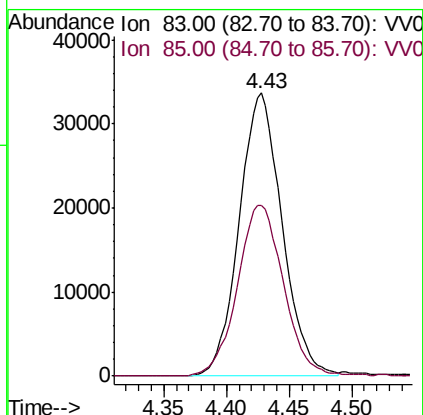
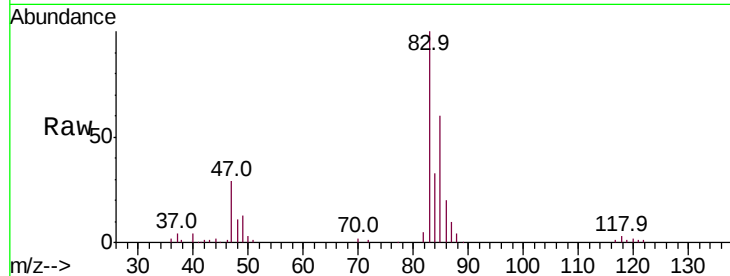




#25
Chloroform
Concen: 8.498 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. 0.00 min
Lab File: VV012731.D
Acq: 13 Sep 2019 13:57

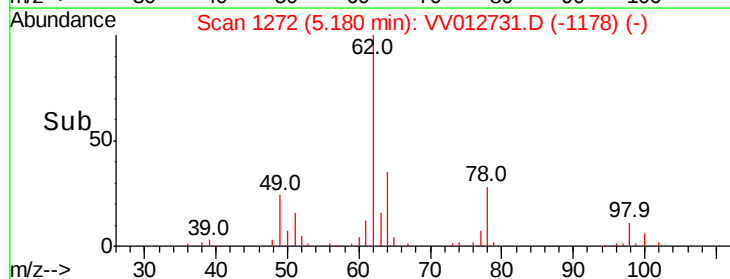
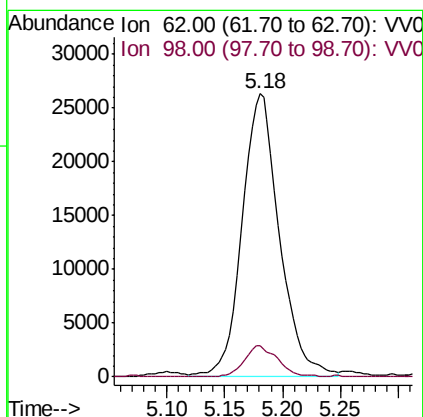
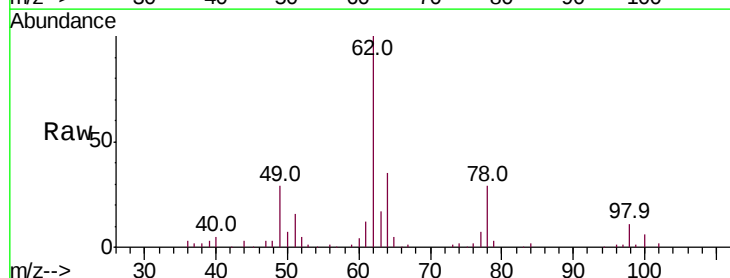
Instrument :
MSVOA_V
ClientSampleId :

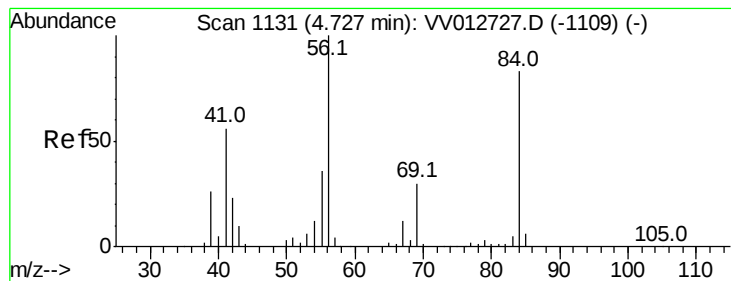
Tot Ion: 83 Resp: 80263
Ion Ratio Lower Upper
83 100
85 60.3 45.1 83.9



#27
1,2-Dichloroethane
Concen: 8.366 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VV012731.D
Acq: 13 Sep 2019 13:57

Tgt Ion: 62 Resp: 59134
Ion Ratio Lower Upper
62 100
98 11.0 7.7 11.5





#29

Cyclohexane

Concen: 7.614 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VV012731.D

Acq: 13 Sep 2019 13:57

Instrument :
MSVOA_V
ClientSampled :

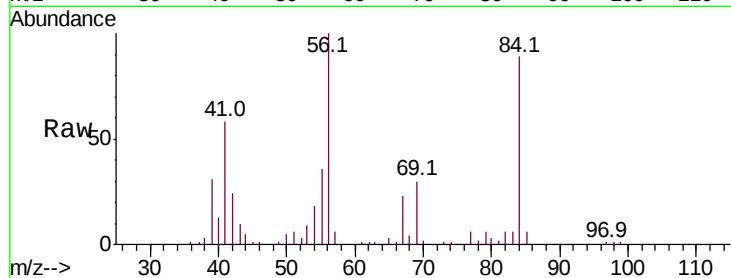
Tot Ion: 56 Resp: 49742

Ion Ratio Lower Upper

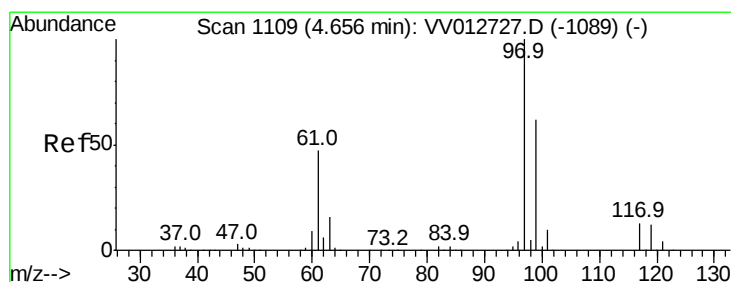
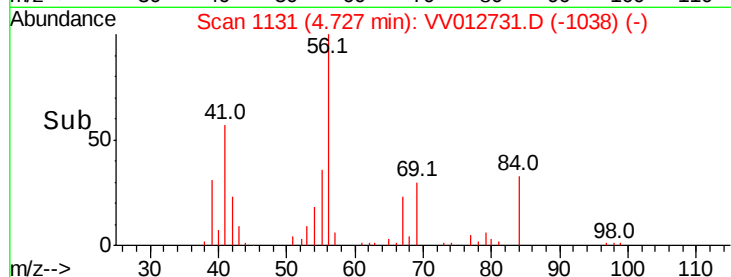
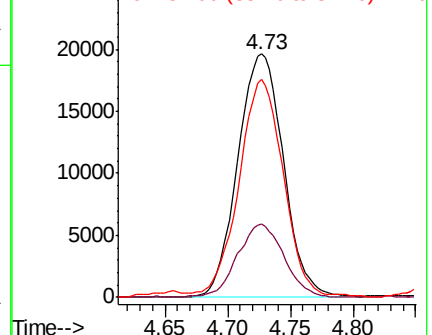
56 100

69 30.5 24.2 36.2

84 85.3 69.8 104.6



Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0



#30

1,1,1-Trichloroethane

Concen: 8.460 ug/L

RT: 4.66 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VV012731.D

Acq: 13 Sep 2019 13:57

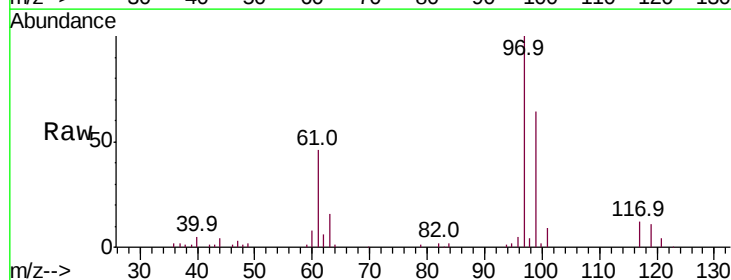
Tgt Ion: 97 Resp: 60873

Ion Ratio Lower Upper

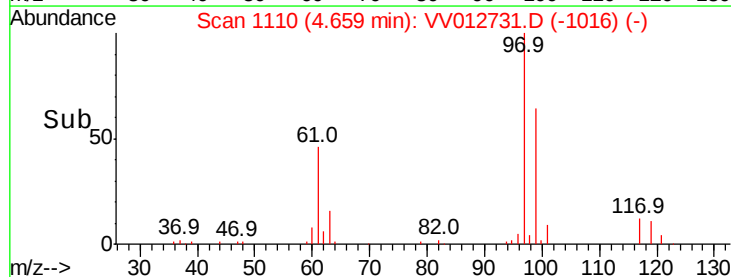
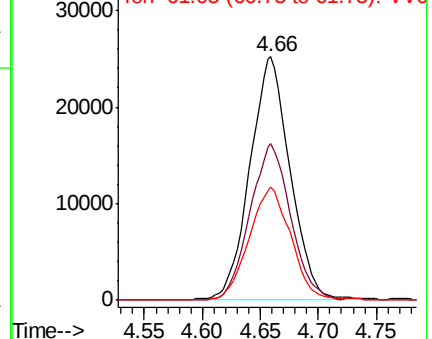
97 100

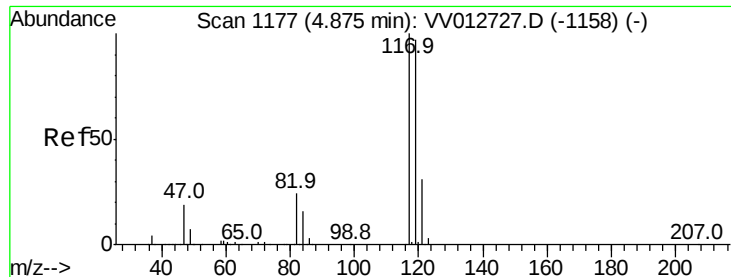
99 64.7 50.6 75.8

61 47.9 37.8 56.8



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.05 (60.75 to 61.75): VV0





#31

Carbon tetrachloride

Concen: 8.290 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VV012731.D

Acq: 13 Sep 2019 13:57

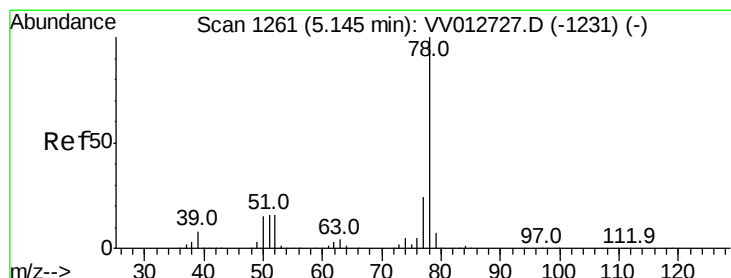
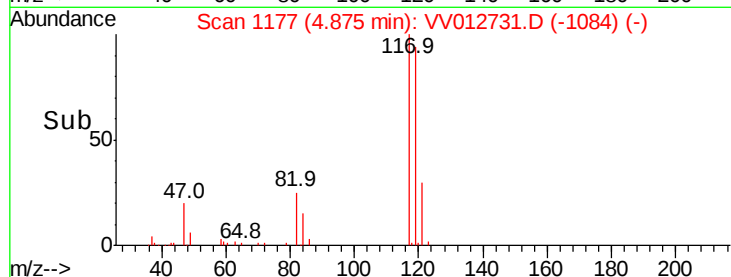
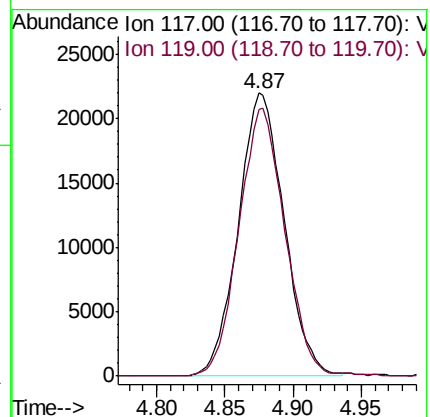
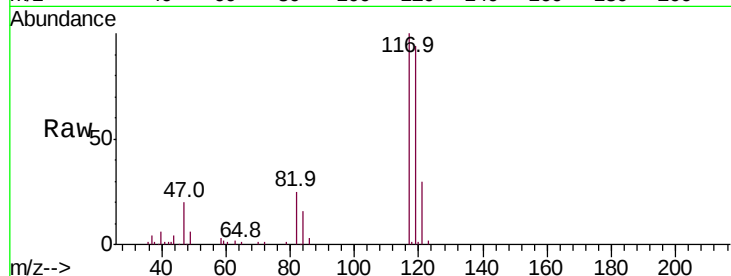
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:117 Resp: 51360

Ion Ratio Lower Upper

117 100

119 94.3 77.1 115.7



#33

Benzene

Concen: 8.187 ug/L

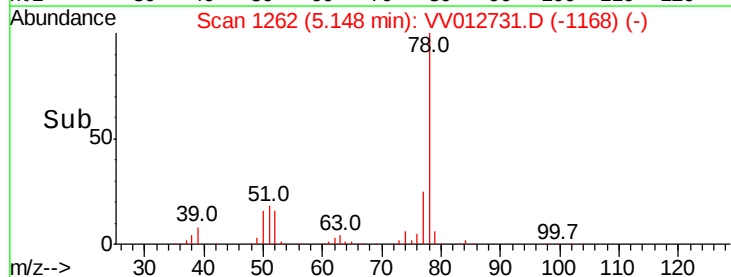
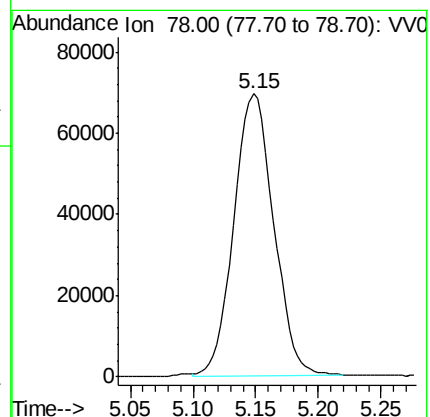
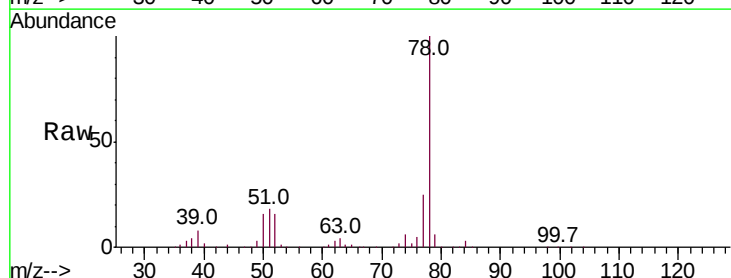
RT: 5.15 min Scan# 1262

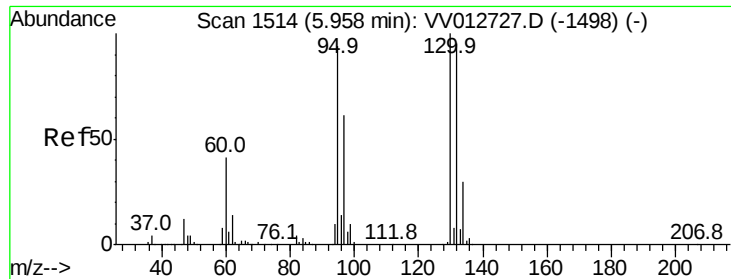
Delta R.T. 0.00 min

Lab File: VV012731.D

Acq: 13 Sep 2019 13:57

Tgt Ion: 78 Resp: 153249

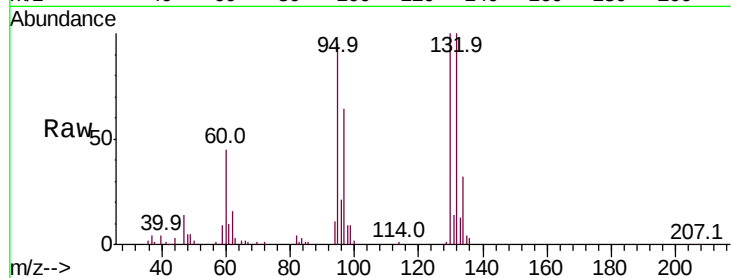




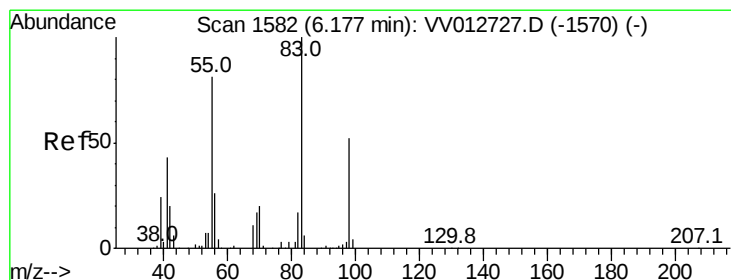
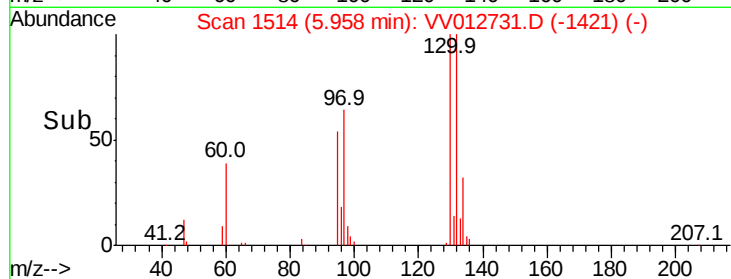
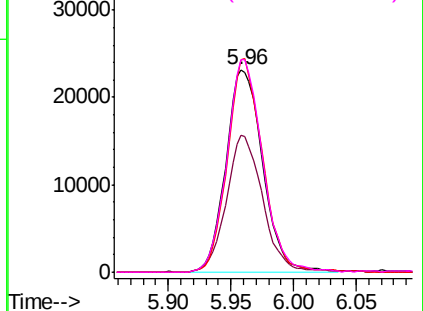
#34
 Trichloroethene
 Concen: 8.732 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: VV012731.D
 Acq: 13 Sep 2019 13:57

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion:	95	Resp:	47512
Ion	Ratio	Lower	Upper
95	100		
97	67.6	45.1	83.9
132	104.9	70.6	131.0
130	104.7	74.6	138.6

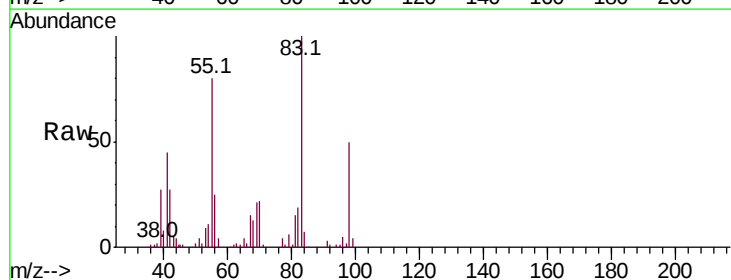


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

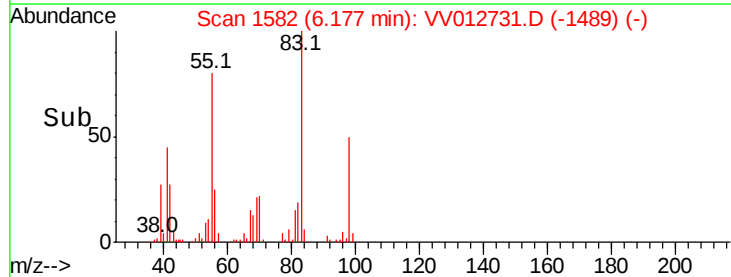
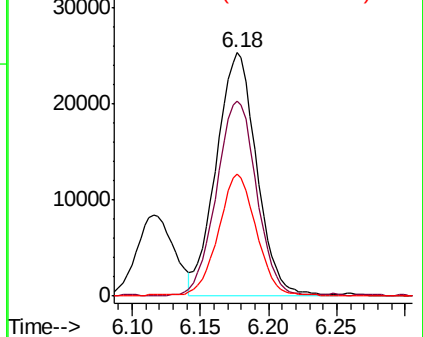


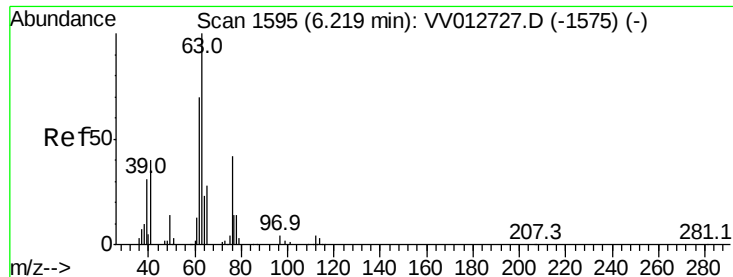
#35
 Methylcyclohexane
 Concen: 7.548 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. 0.00 min
 Lab File: VV012731.D
 Acq: 13 Sep 2019 13:57

Tgt Ion:	83	Resp:	51808
Ion	Ratio	Lower	Upper
83	100		
55	80.3	62.2	93.2
98	47.2	39.4	59.0



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: 8.341 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VV012731.D

Acq: 13 Sep 2019 13:57

Instrument :

MSVOA_V

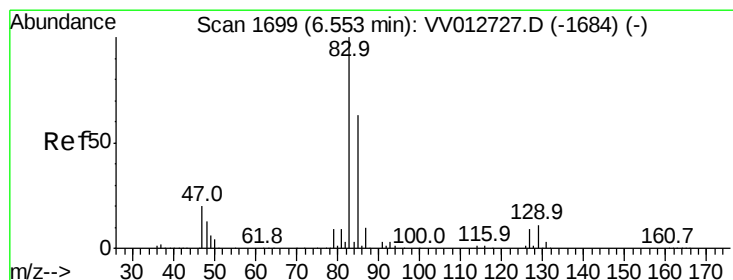
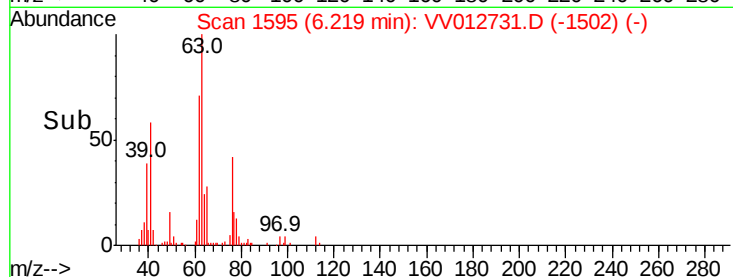
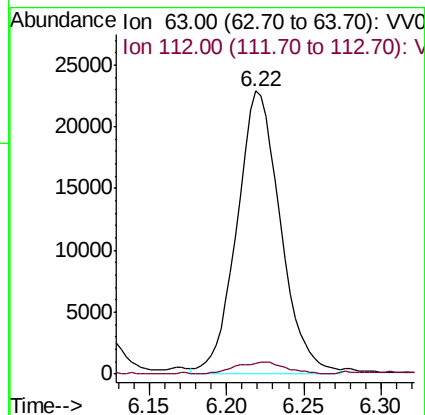
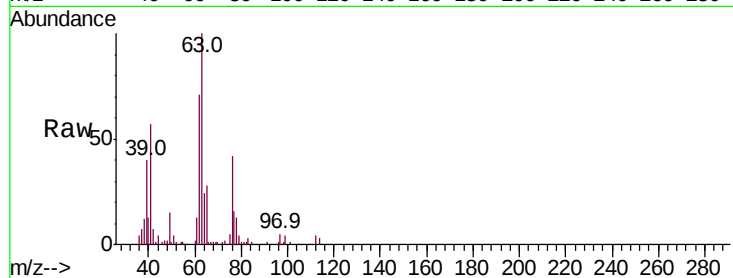
ClientSampled :

Tot Ion: 63 Resp: 44901

Ion Ratio Lower Upper

63 100

112 3.2 3.5 5.3#



#38

Bromodichloromethane

Concen: 8.193 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV012731.D

Acq: 13 Sep 2019 13:57

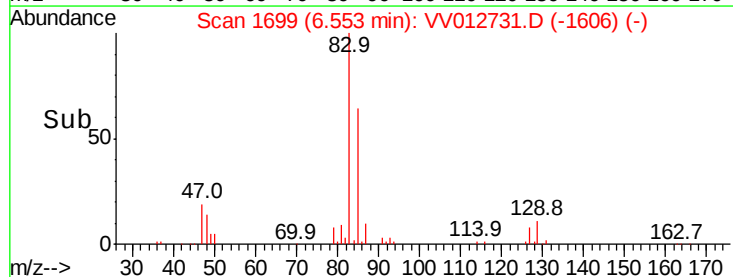
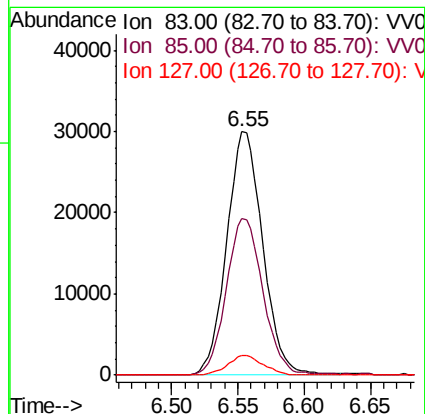
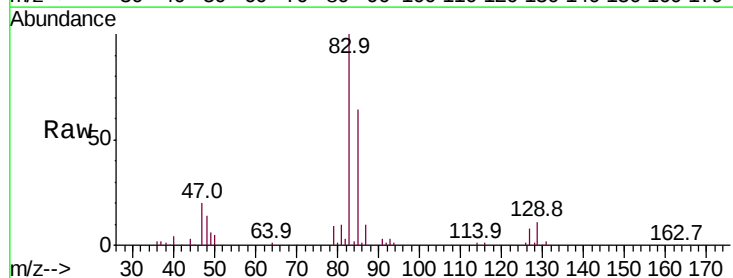
Tgt Ion: 83 Resp: 56768

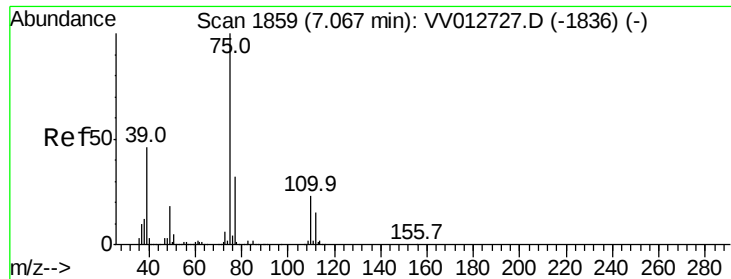
Ion Ratio Lower Upper

83 100

85 64.4 44.4 82.5

127 8.0 7.0 10.4



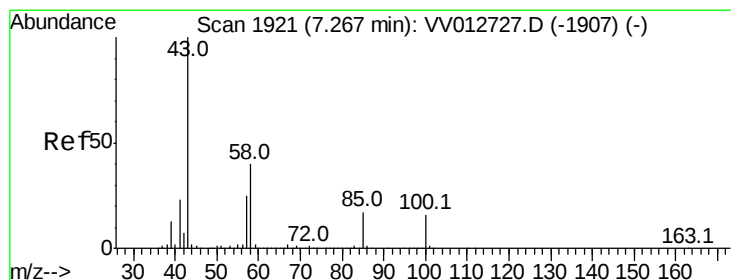
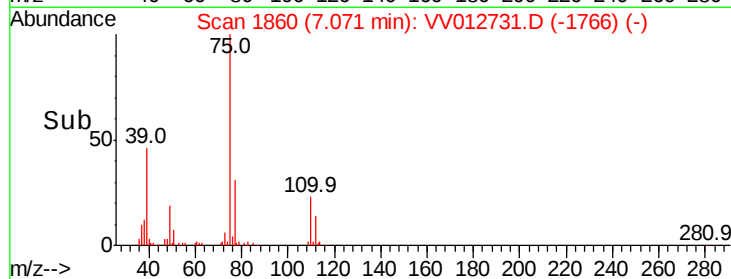
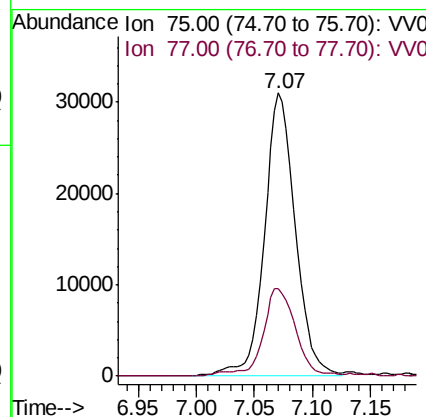
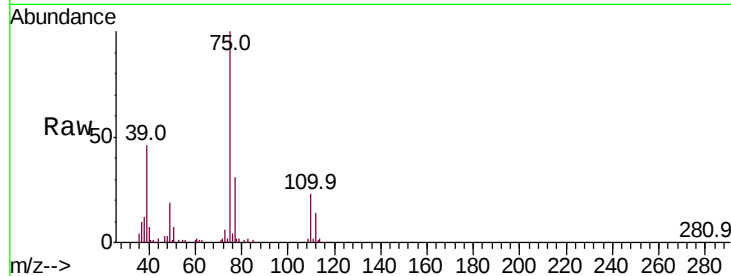


#39

cis-1,3-Dichloropropene
 Concen: 7.638 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV012731.D
 Acq: 13 Sep 2019 13:57

Instrument :
 MSVOA_V
 ClientSampleId :

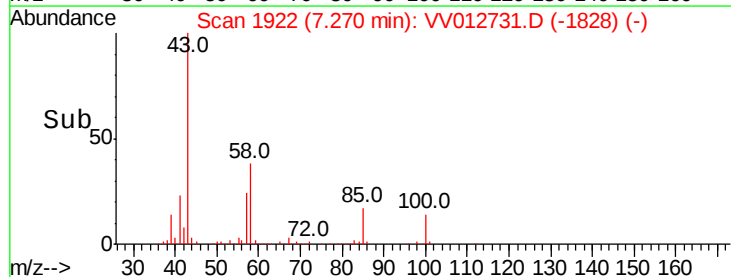
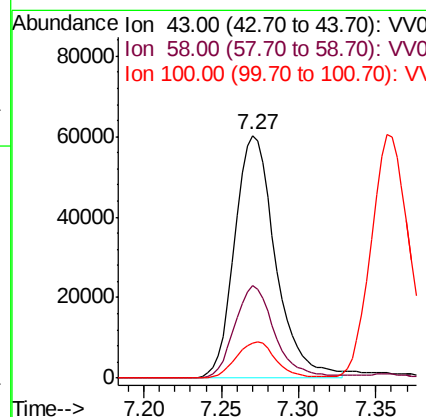
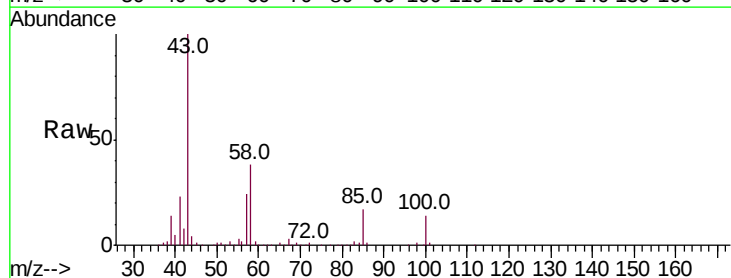
Tot Ion: 75 Resp: 57562
 Ion Ratio Lower Upper
 75 100
 77 31.1 22.1 41.1

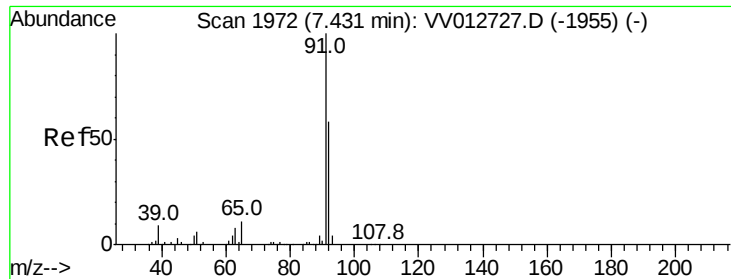


#40

4-Methyl-2-pentanone
 Concen: 14.866 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VV012731.D
 Acq: 13 Sep 2019 13:57

Tgt Ion: 43 Resp: 110752
 Ion Ratio Lower Upper
 43 100
 58 37.3 31.3 46.9
 100 14.6 12.4 18.6





#42

Toluene

Concen: 7.808 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV012731.D

Acq: 13 Sep 2019 13:57

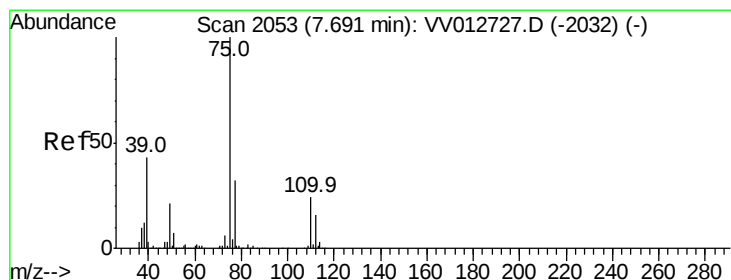
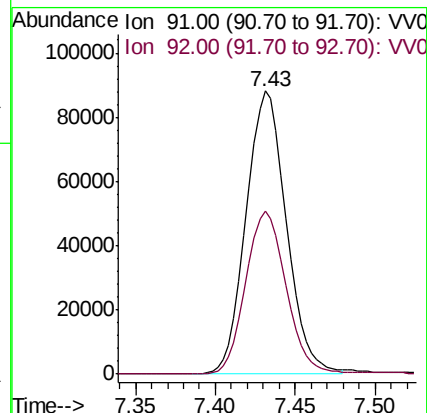
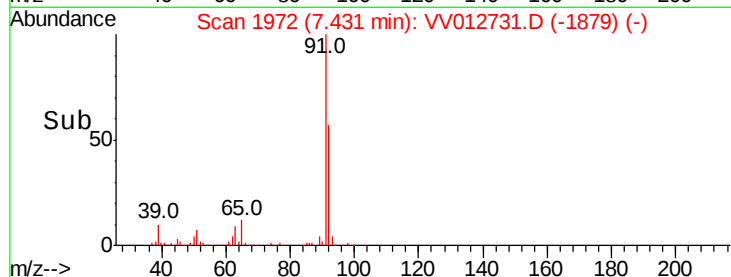
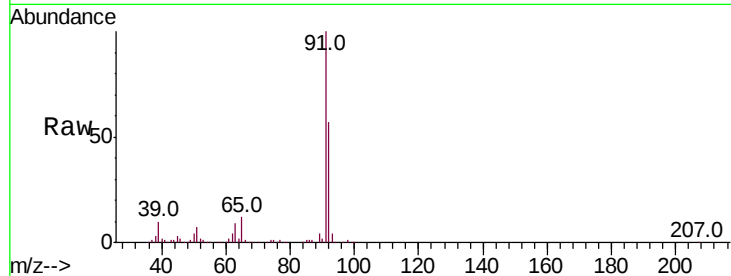
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 151778

Ion Ratio Lower Upper

91 100

92 57.4 40.9 76.0



#44

trans-1,3-Dichloropropene

Concen: 7.614 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV012731.D

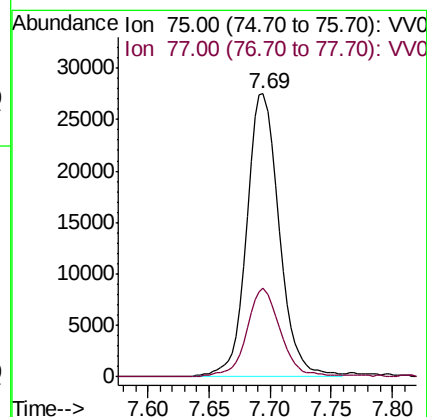
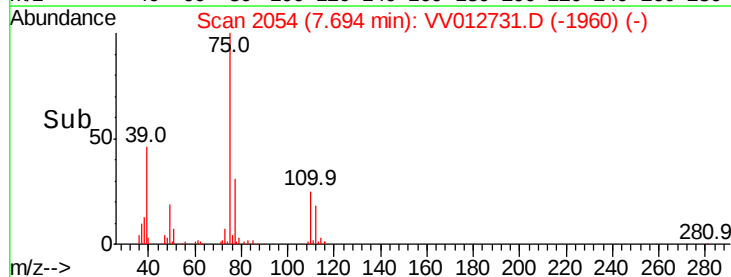
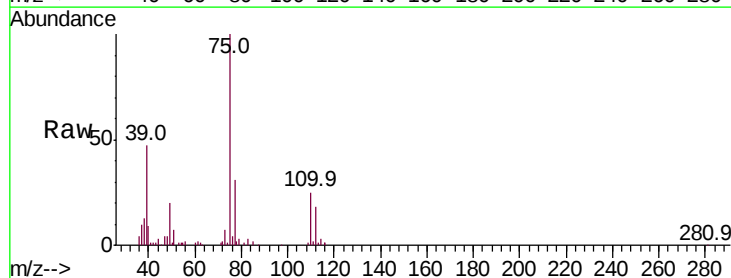
Acq: 13 Sep 2019 13:57

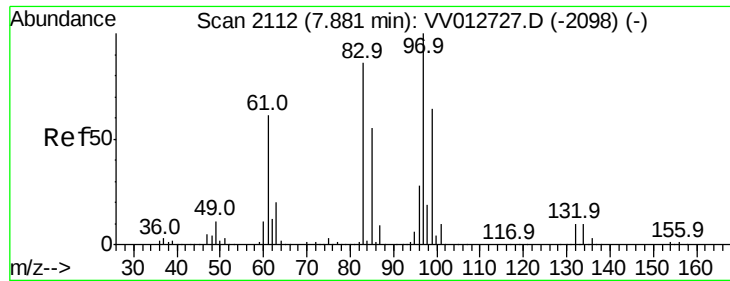
Tgt Ion: 75 Resp: 50591

Ion Ratio Lower Upper

75 100

77 31.3 22.1 41.1





#45

1,1,2-Trichloroethane

Concen: 8.161 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VV012731.D

Acq: 13 Sep 2019 13:57

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 97 Resp: 42861

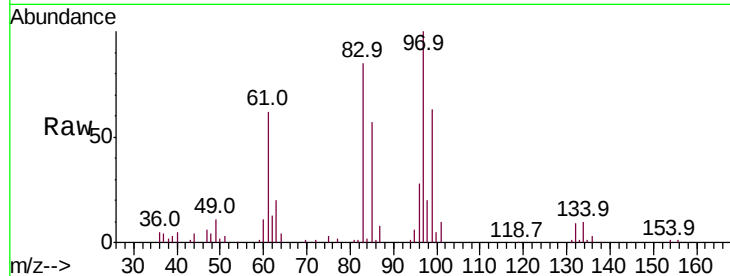
Ion Ratio Lower Upper

97 100

99 62.7 44.6 82.8

83 84.9 59.9 111.3

85 57.2 38.7 71.9

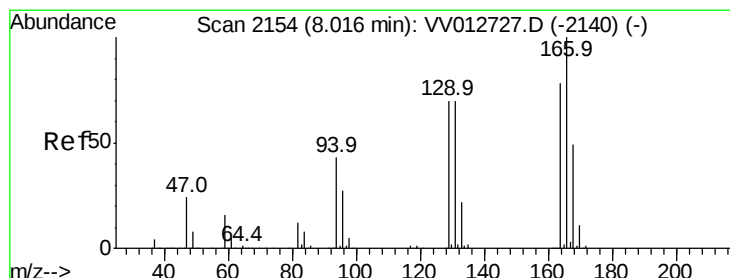
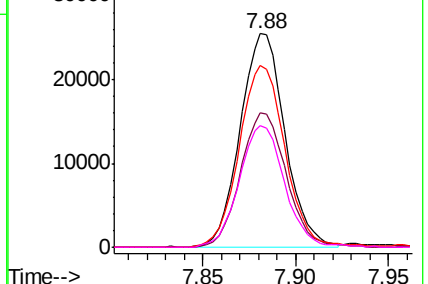
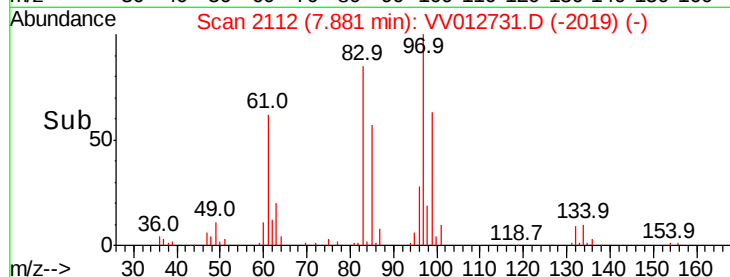


Abundance Ion 97.00 (96.70 to 97.70): VV012731.D (-2019) (-)

Ion 99.00 (98.70 to 99.70): VV012731.D (-2019) (-)

Ion 83.00 (82.70 to 83.70): VV012731.D (-2019) (-)

Ion 85.00 (84.70 to 85.70): VV012731.D (-2019) (-)



#46

Tetrachloroethene

Concen: 8.216 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VV012731.D

Acq: 13 Sep 2019 13:57

Tgt Ion: 164 Resp: 31011

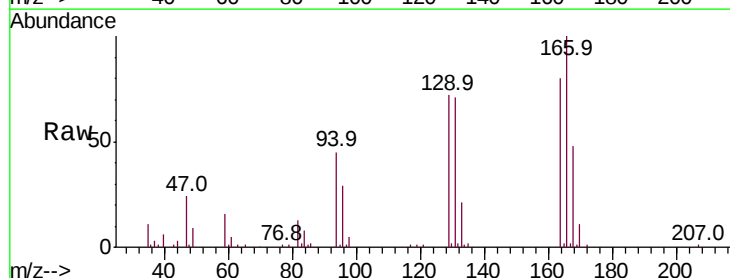
Ion Ratio Lower Upper

164 100

129 90.5 62.7 116.5

131 88.2 62.7 116.5

166 124.9 89.9 167.0

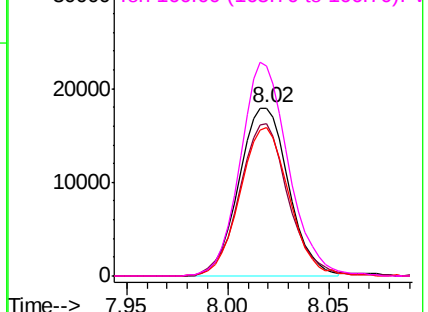
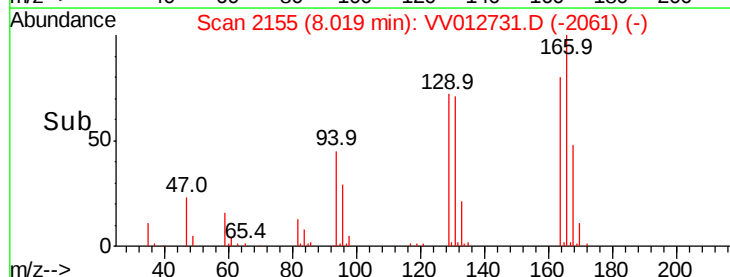


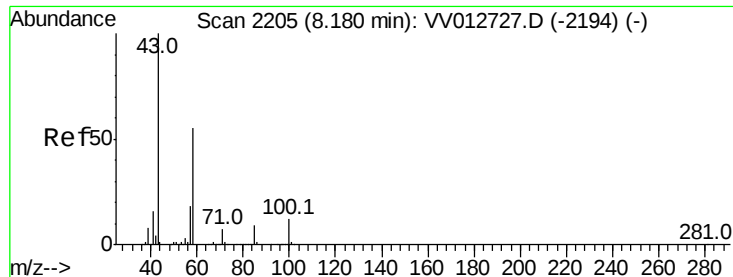
Abundance Ion 164.00 (163.70 to 164.70): VV012731.D (-2061) (-)

Ion 129.00 (128.70 to 129.70): VV012731.D (-2061) (-)

Ion 131.00 (130.70 to 131.70): VV012731.D (-2061) (-)

Ion 166.00 (165.70 to 166.70): VV012731.D (-2061) (-)

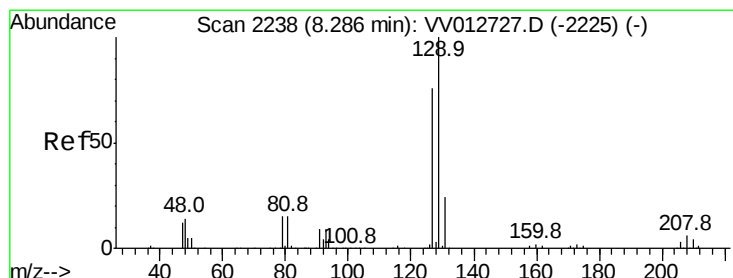
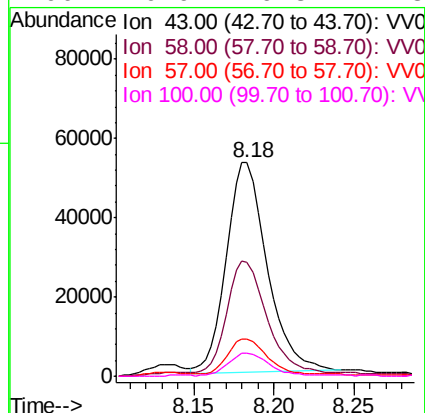
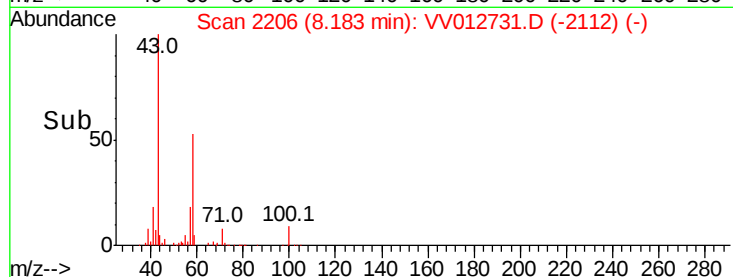
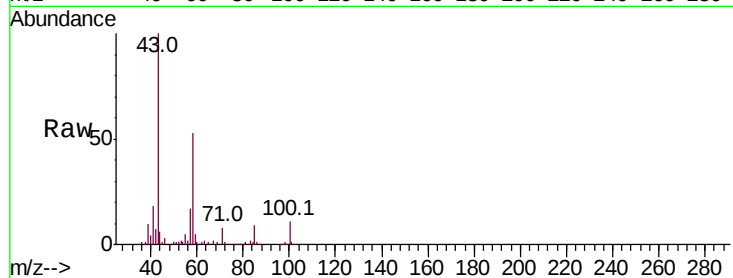




#48
2-Hexanone
Concen: 14.957 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV012731.D
Acq: 13 Sep 2019 13:57

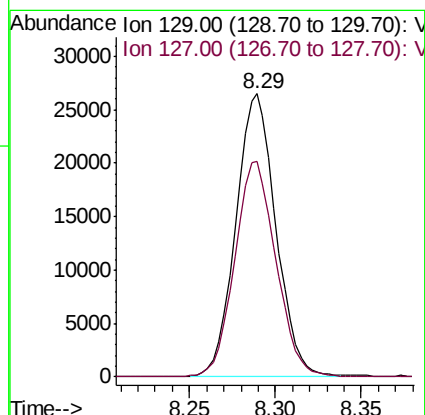
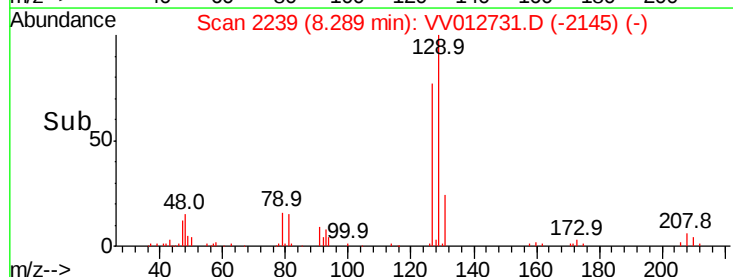
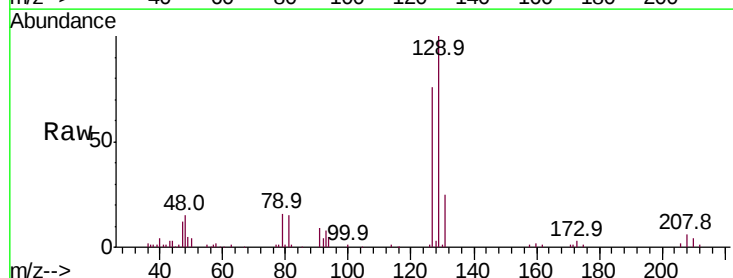
Instrument :
MSVOA_V
ClientSampleId :

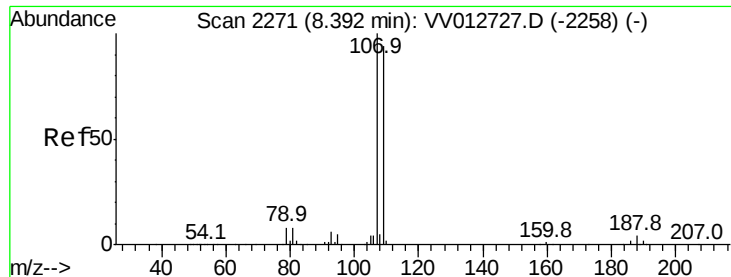
Tot Ion:	43	Resp:	91621
Ion	Ratio	Lower	Upper
43	100		
58	52.8	43.8	65.8
57	16.7	14.3	21.5
100	10.9	9.8	14.8



#49
Dibromochloromethane
Concen: 7.812 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV012731.D
Acq: 13 Sep 2019 13:57

Tgt Ion:	129	Resp:	42991
Ion	Ratio	Lower	Upper
129	100		
127	76.1	53.0	98.4

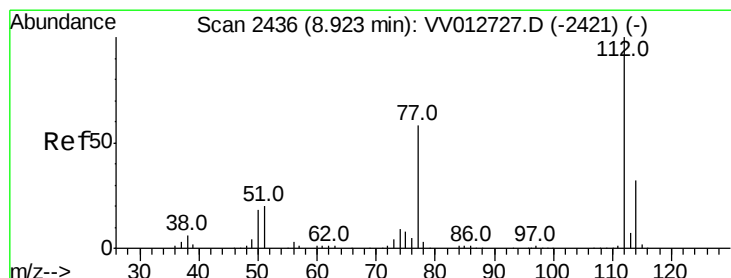
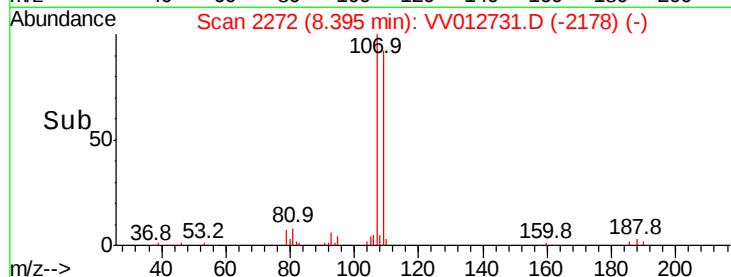
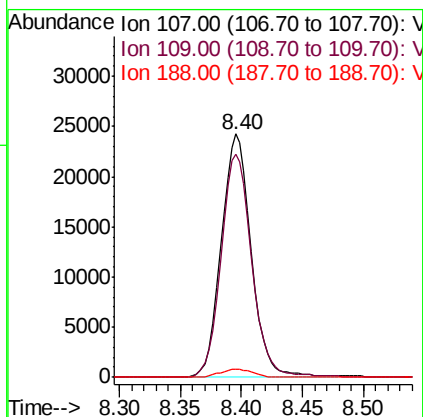
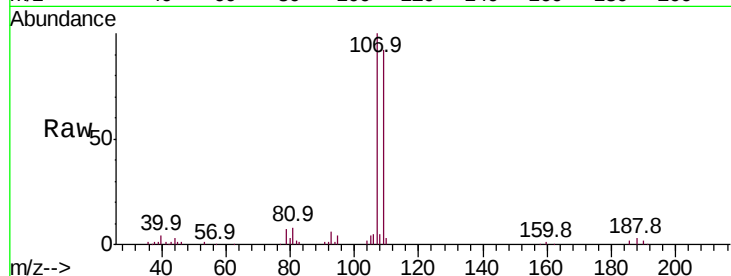




#50
 1,2-Dibromoethane
 Concen: 8.266 ug/L
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VV012731.D
 Acq: 13 Sep 2019 13:57

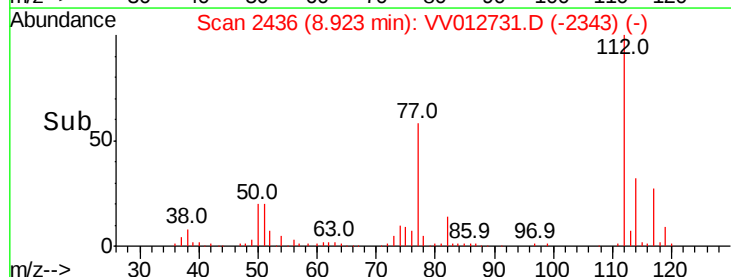
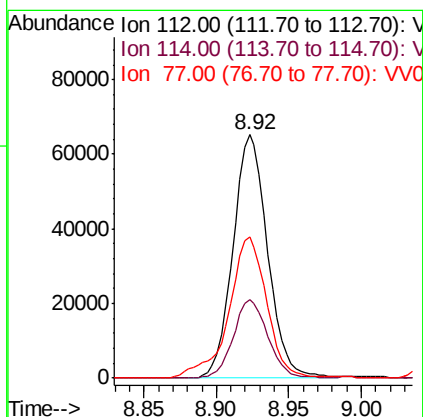
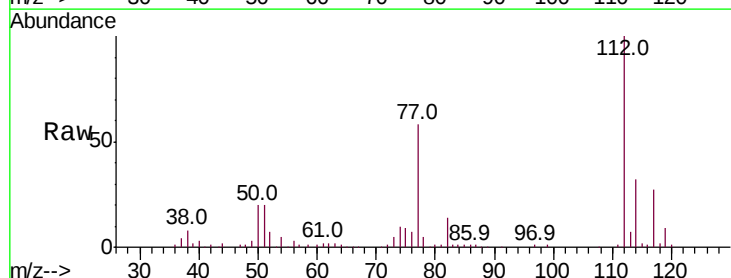
Instrument :
 MSVOA_V
 ClientSampleId :

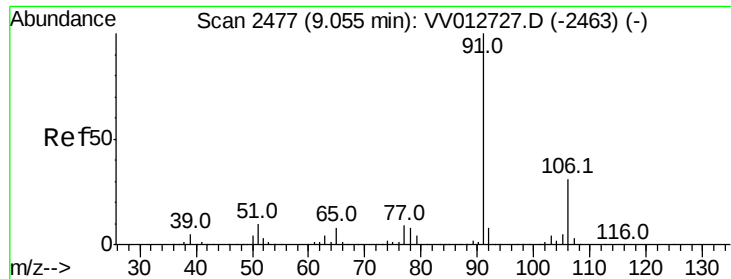
Tot Ion:107 Resp: 41823
 Ion Ratio Lower Upper
 107 100
 109 91.6 65.7 121.9
 188 3.4 3.3 4.9



#51
 Chlorobenzene
 Concen: 8.108 ug/L
 RT: 8.92 min Scan# 2436
 Delta R.T. 0.00 min
 Lab File: VV012731.D
 Acq: 13 Sep 2019 13:57

Tgt Ion:112 Resp: 107978
 Ion Ratio Lower Upper
 112 100
 114 32.1 22.4 41.6
 77 57.9 46.7 70.1





#52

Ethylbenzene

Concen: 7.450 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV012731.D

Acq: 13 Sep 2019 13:57

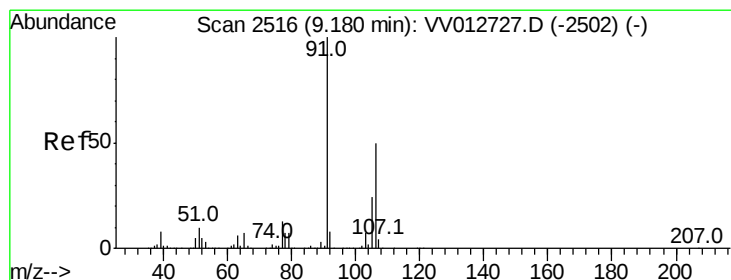
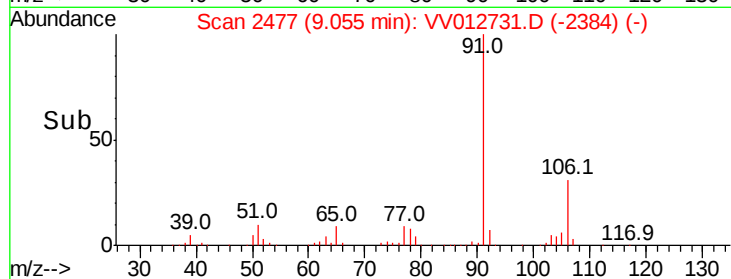
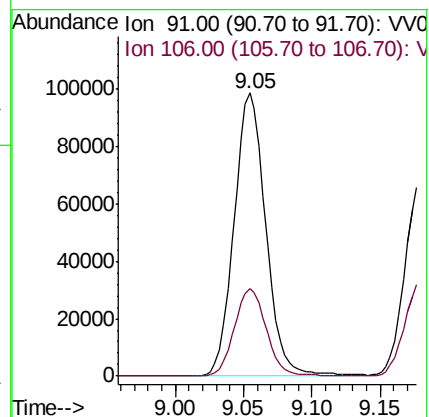
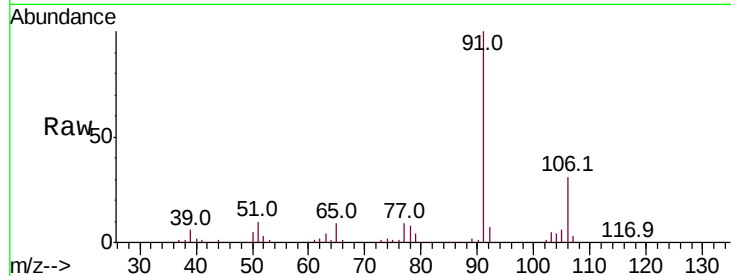
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 91 Resp: 159200

Ion Ratio Lower Upper

91 100

106 30.8 21.4 39.8



#53

m,p-Xylene

Concen: 7.162 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV012731.D

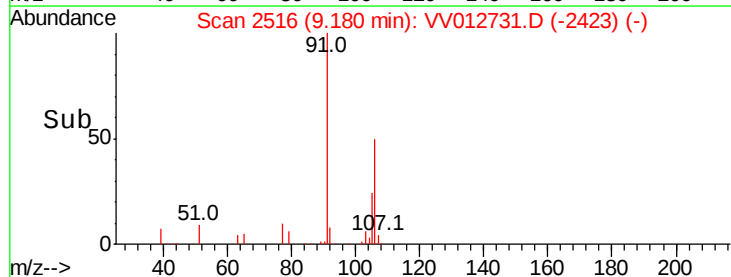
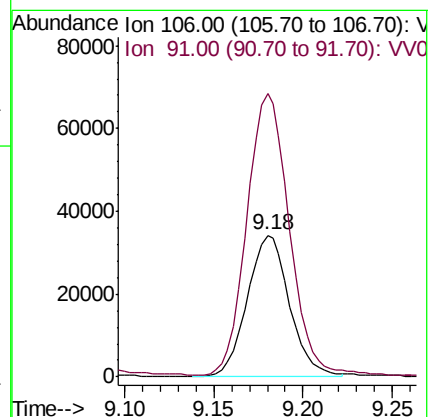
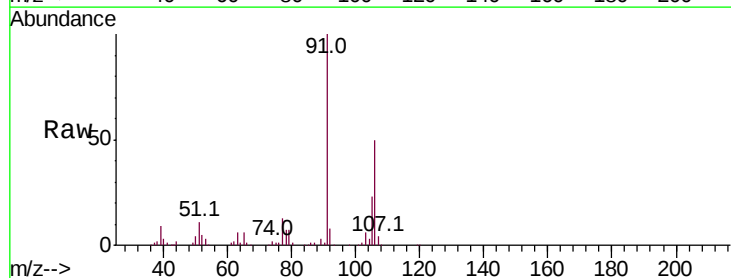
Acq: 13 Sep 2019 13:57

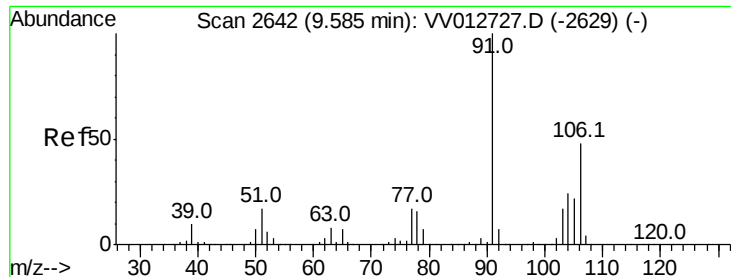
Tgt Ion: 106 Resp: 56368

Ion Ratio Lower Upper

106 100

91 200.0 139.9 259.7





#54

o-xylene

Concen: 7.243 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV012731.D

Acq: 13 Sep 2019 13:57

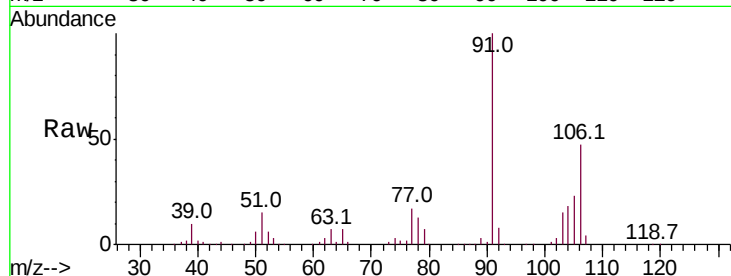
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:106 Resp: 57870

Ion Ratio Lower Upper

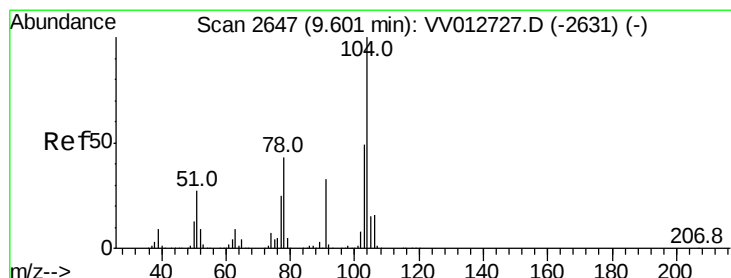
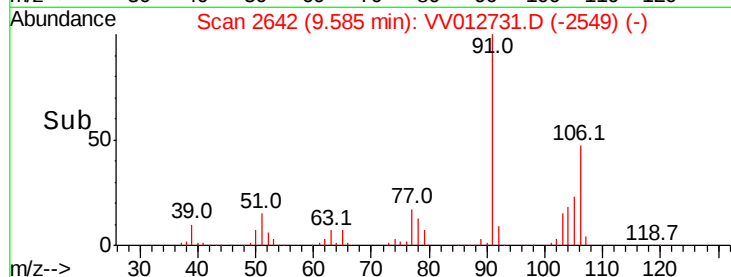
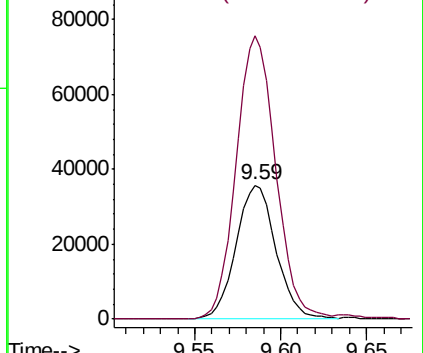
106 100

91 211.1 146.5 272.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 7.012 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. 0.00 min

Lab File: VV012731.D

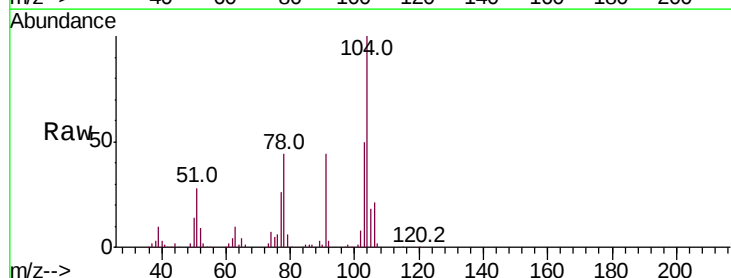
Acq: 13 Sep 2019 13:57

Tgt Ion:104 Resp: 95022

Ion Ratio Lower Upper

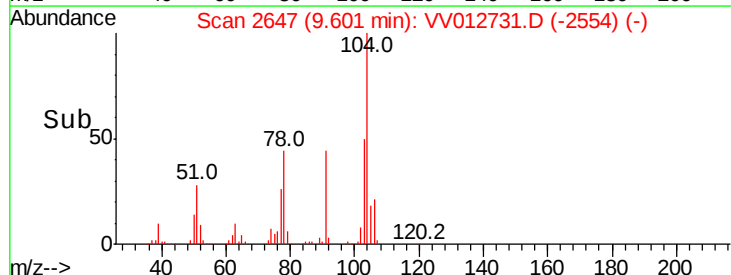
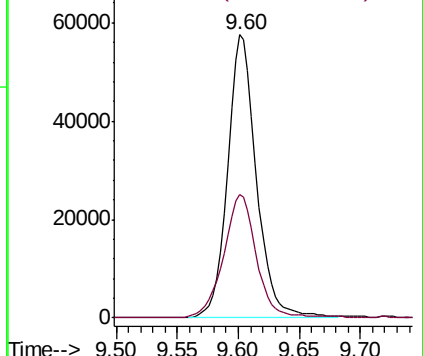
104 100

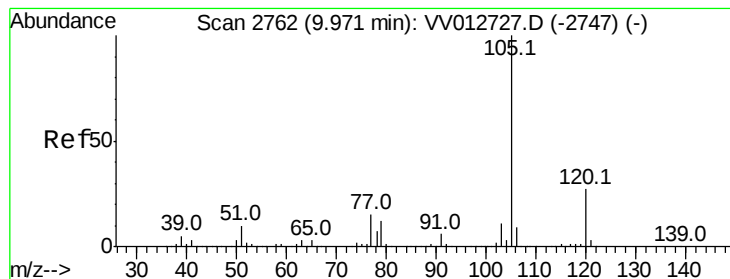
78 43.7 30.0 55.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 7.087 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV012731.D

Acq: 13 Sep 2019 13:57

Instrument :
MSVOA_V
ClientSampleId :

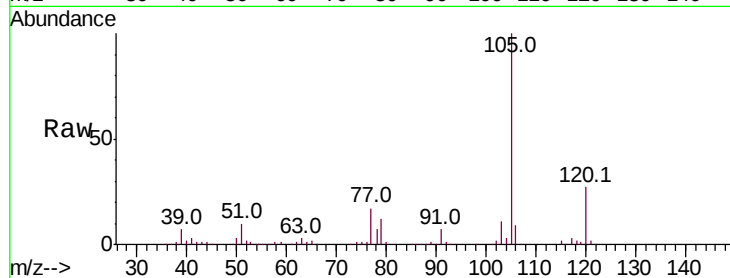
Tot Ion:105 Resp: 148765

Ion Ratio Lower Upper

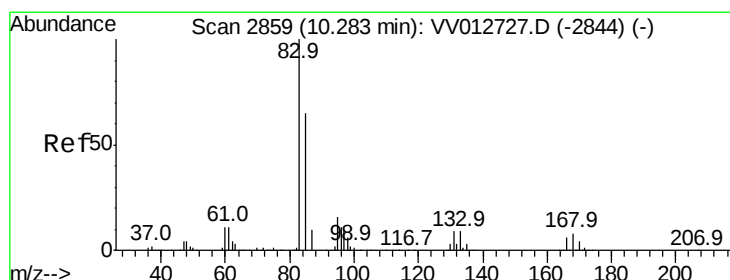
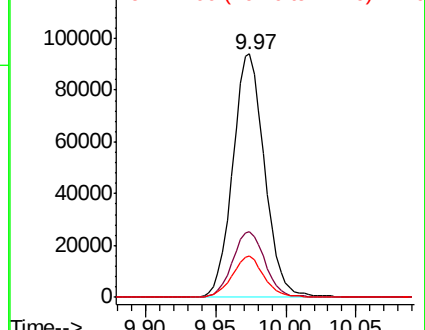
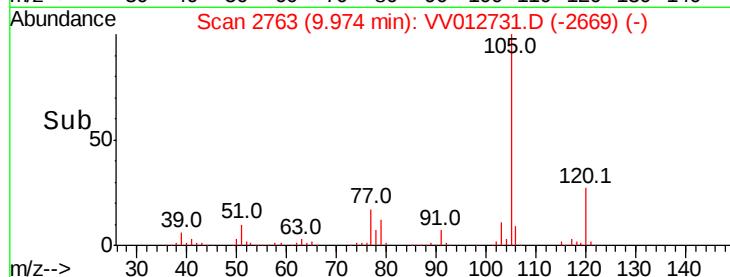
105 100

120 27.4 21.4 32.2

77 16.5 12.4 18.6



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: 7.569 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VV012731.D

Acq: 13 Sep 2019 13:57

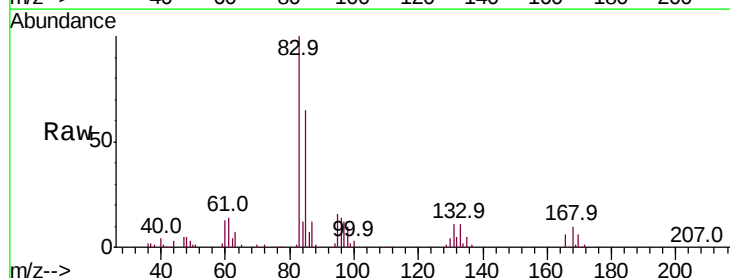
Tgt Ion: 83 Resp: 54280

Ion Ratio Lower Upper

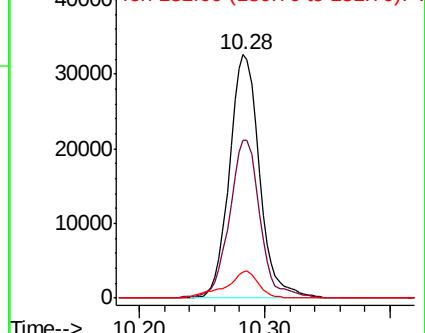
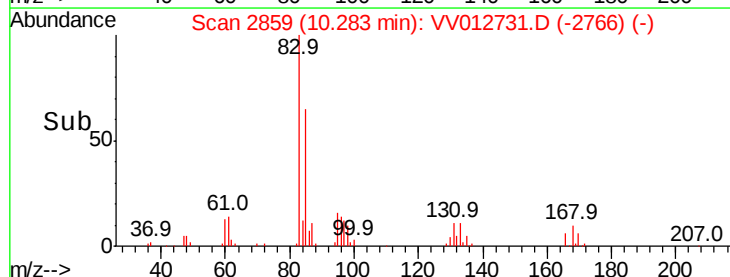
83 100

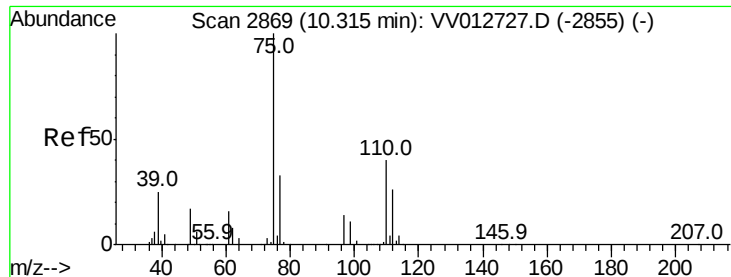
85 64.9 45.4 84.4

131 10.9 7.6 11.4



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: 8.226 ug/L

RT: 10.31 min Scan# 2869

Delta R.T. 0.00 min

Lab File: VV012731.D

Acq: 13 Sep 2019 13:57

Instrument :

MSVOA_V

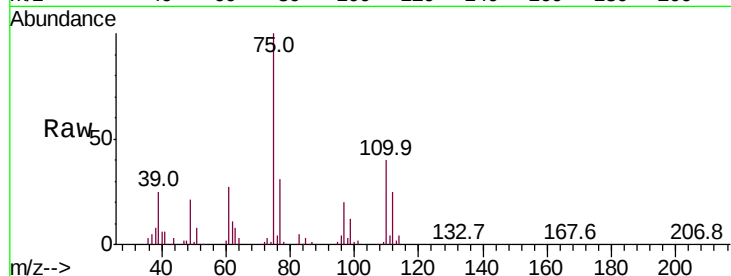
ClientSampleId :

Tot Ion: 75 Resp: 56364

Ion Ratio Lower Upper

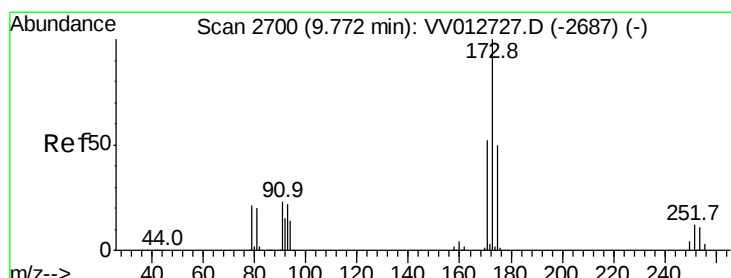
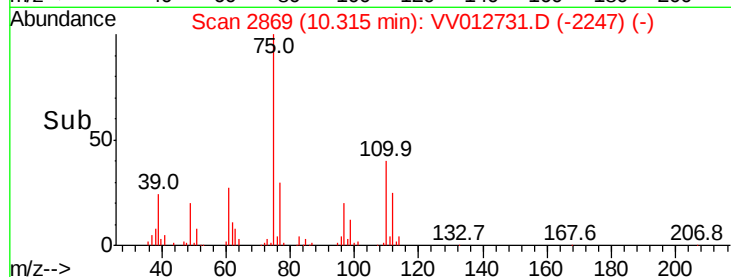
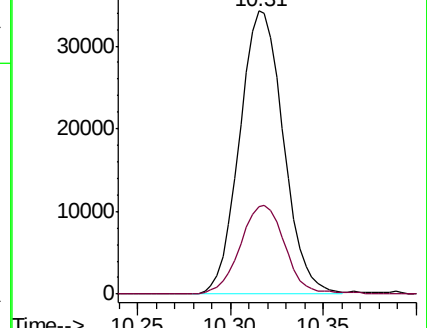
75 100

77 32.0 25.9 38.9



Abundance Ion 75.00 (74.70 to 75.70): VV012727.D (-2855) (-)

Ion 77.00 (76.70 to 77.70): VV012727.D (-2855) (-)



#61

Bromoform

Concen: 8.375 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. 0.00 min

Lab File: VV012731.D

Acq: 13 Sep 2019 13:57

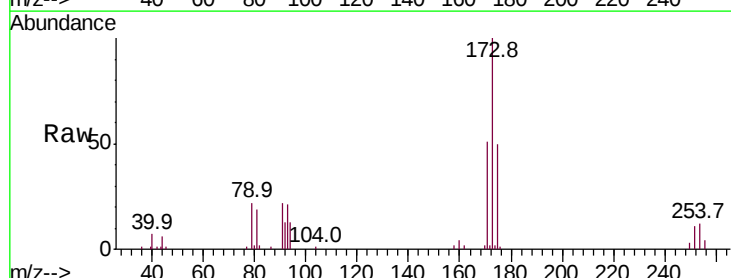
Tgt Ion: 173 Resp: 30804

Ion Ratio Lower Upper

173 100

175 48.7 39.3 58.9

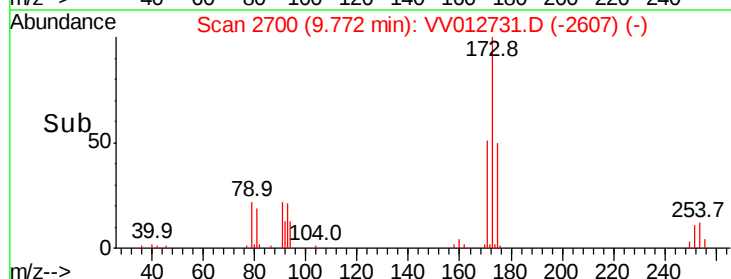
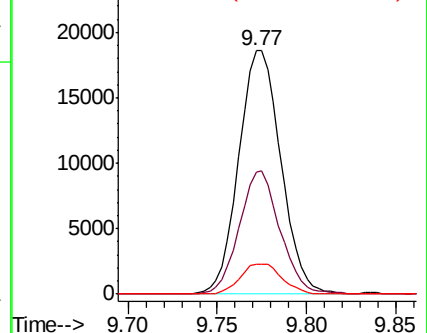
254 12.2 8.9 13.3

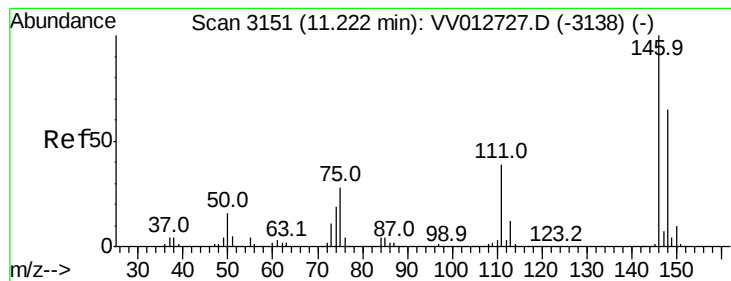


Abundance Ion 173.00 (172.70 to 173.70): VV012727.D (-2687) (-)

Ion 175.00 (174.70 to 175.70): VV012727.D (-2687) (-)

Ion 254.00 (253.70 to 254.70): VV012727.D (-2687) (-)





#62

1,3-Dichlorobenzene

Concen: 8.206 ug/L

RT: 11.22 min Scan# 3152

Delta R.T. 0.00 min

Lab File: VV012731.D

Acq: 13 Sep 2019 13:57

Instrument :

MSVOA_V

ClientSampleId :

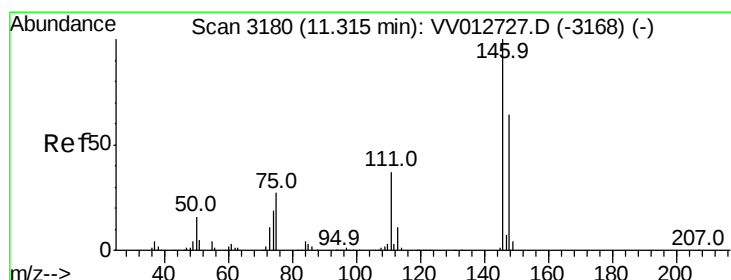
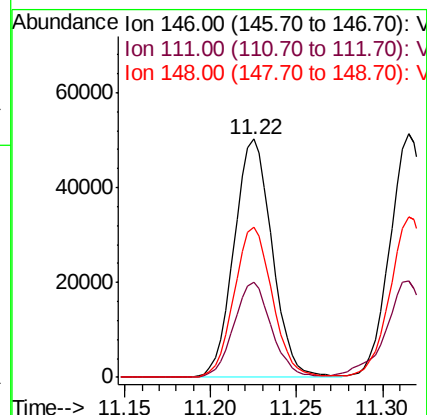
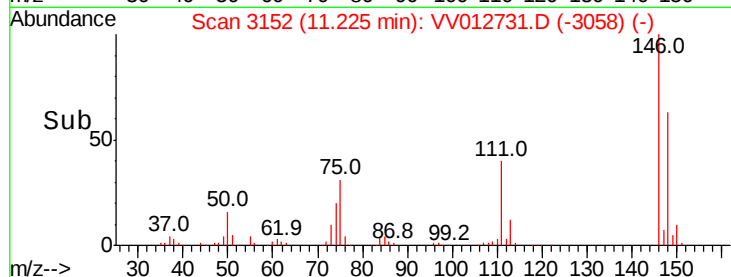
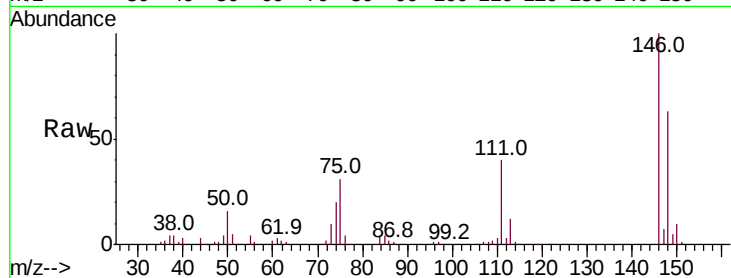
Tot Ion:146 Resp: 77212

Ion Ratio Lower Upper

146 100

111 40.2 27.2 50.6

148 63.2 45.2 84.0



#63

1,4-Dichlorobenzene

Concen: 8.435 ug/L

RT: 11.31 min Scan# 3180

Delta R.T. 0.00 min

Lab File: VV012731.D

Acq: 13 Sep 2019 13:57

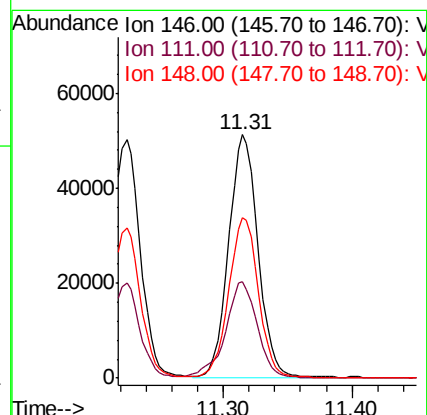
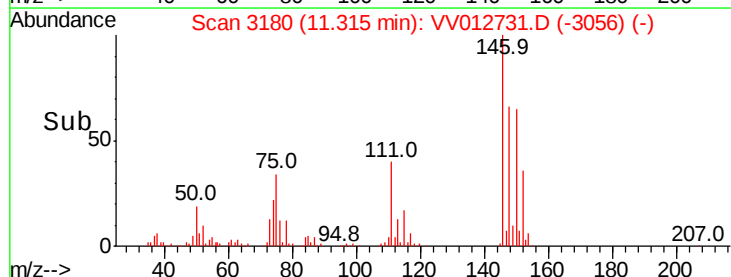
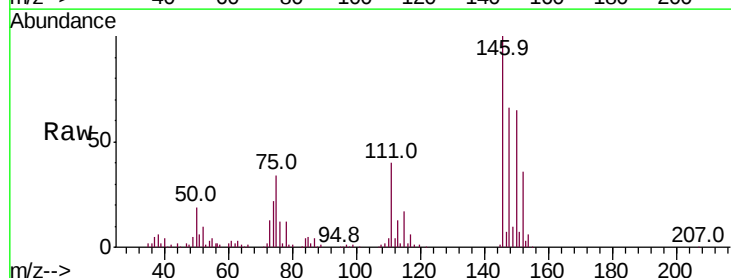
Tgt Ion:146 Resp: 81406

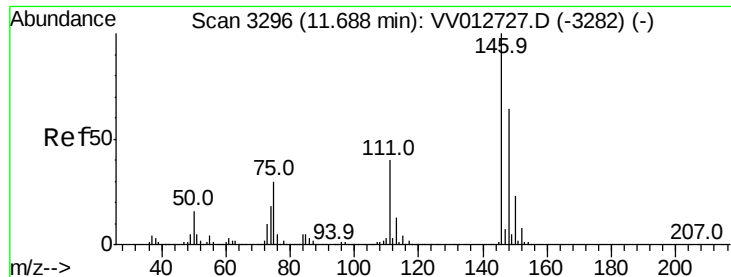
Ion Ratio Lower Upper

146 100

111 39.6 26.2 48.8

148 65.9 45.0 83.6





#65

1,2-Dichlorobenzene

Concen: 8.369 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. 0.00 min

Lab File: VV012731.D

Acq: 13 Sep 2019 13:57

Instrument :

MSVOA_V

ClientSampleId :

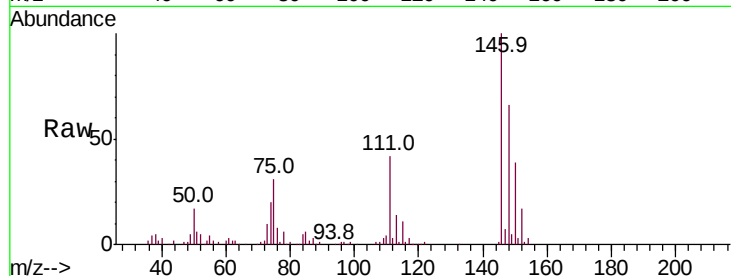
Tot Ion:146 Resp: 82793

Ion Ratio Lower Upper

146 100

111 41.6 32.2 48.2

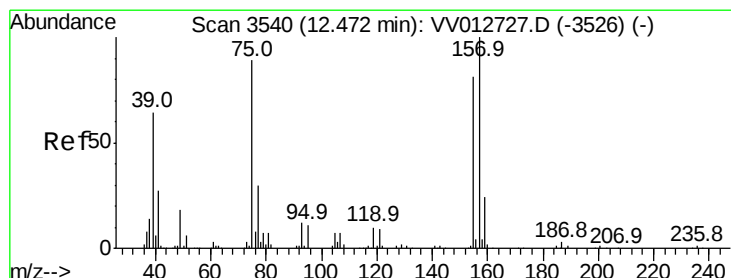
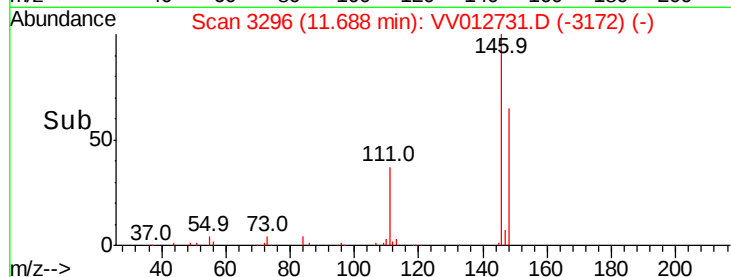
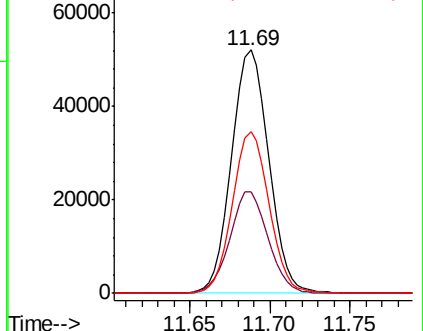
148 66.4 51.5 77.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 7.551 ug/L

RT: 12.47 min Scan# 3540

Delta R.T. 0.00 min

Lab File: VV012731.D

Acq: 13 Sep 2019 13:57

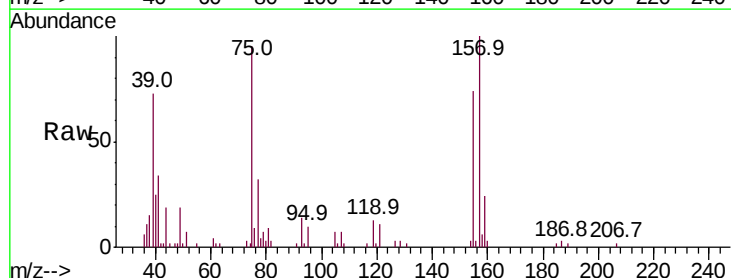
Tgt Ion: 75 Resp: 9972

Ion Ratio Lower Upper

75 100

155 77.3 73.4 110.0

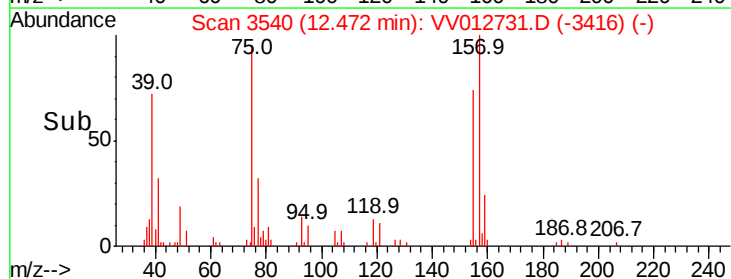
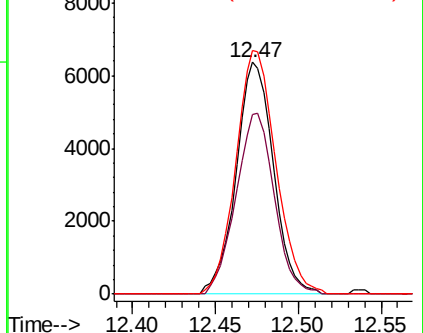
157 105.0 90.2 135.2

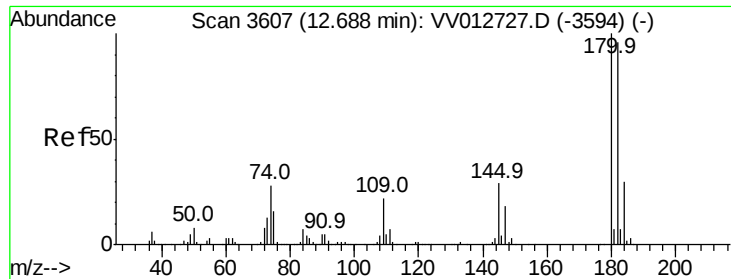


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

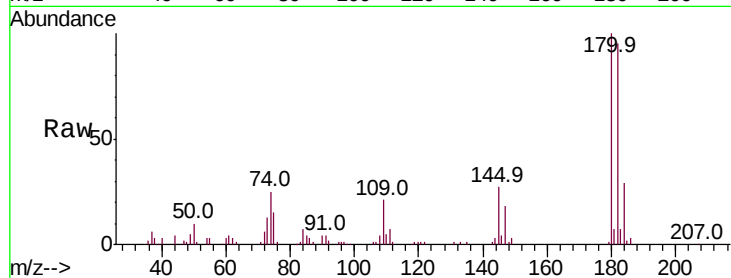




#67
 1,3,5-Trichlorobenzene
 Concen: 7.958 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV012731.D
 Acq: 13 Sep 2019 13:57

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.3	76.7	115.1
184	30.2	24.4	36.6
145	27.9	22.6	33.8



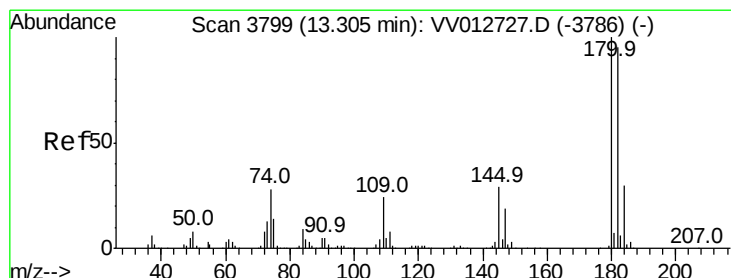
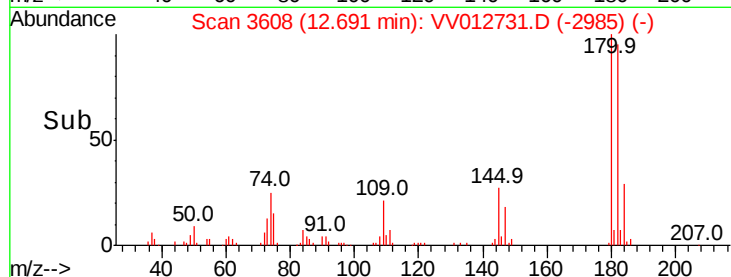
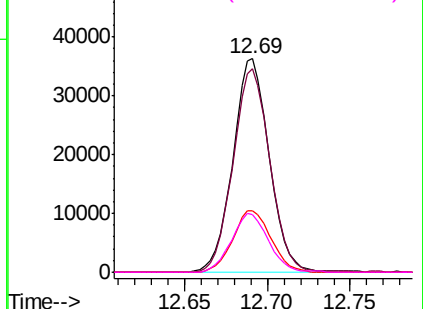
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

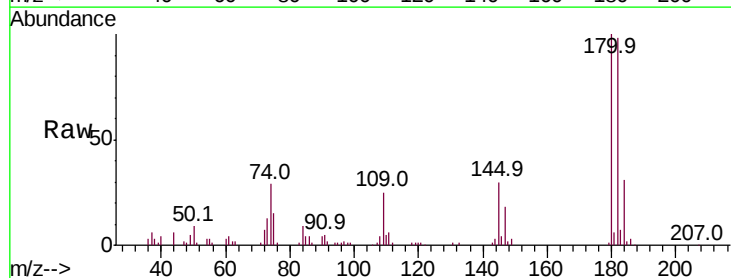
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 7.375 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV012731.D
 Acq: 13 Sep 2019 13:57

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.2	76.8	115.2
145	30.3	23.0	34.4

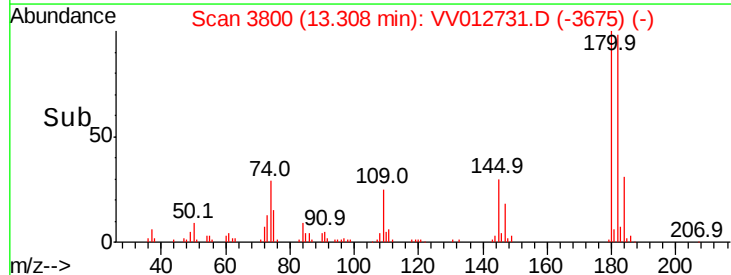
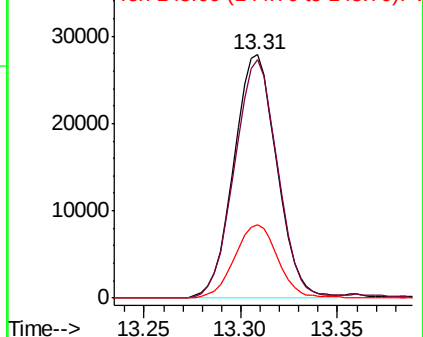


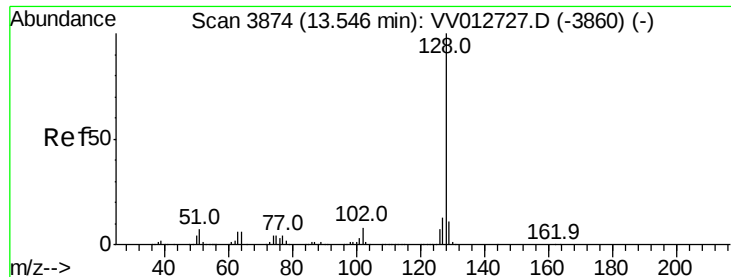
Abundance

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: 6.514 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV012731.D

Acq: 13 Sep 2019 13:57

Instrument :

MSVOA_V

ClientSampleId :

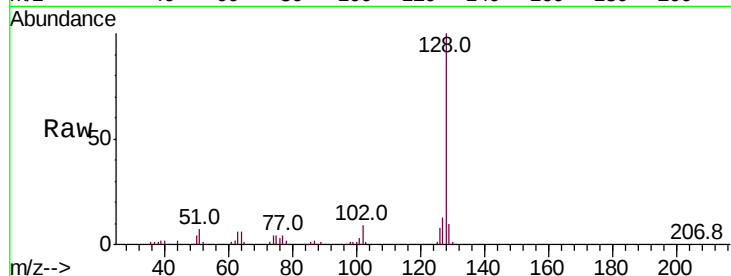
Tot Ion:128 Resp: 110597

Ion Ratio Lower Upper

128 100

127 12.7 10.4 15.6

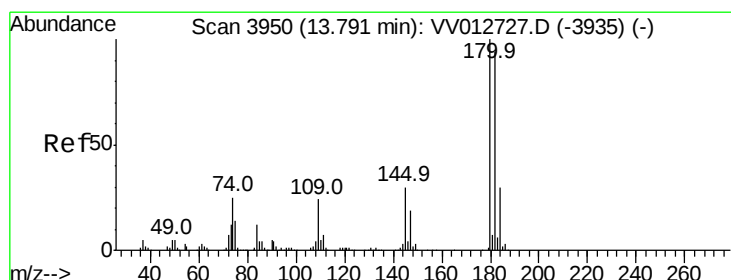
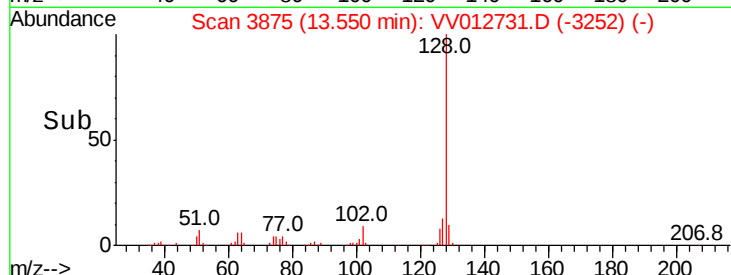
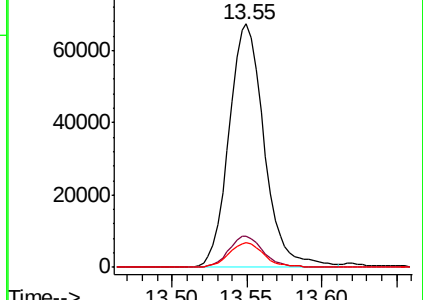
129 10.4 8.8 13.2



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: 7.600 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VV012731.D

Acq: 13 Sep 2019 13:57

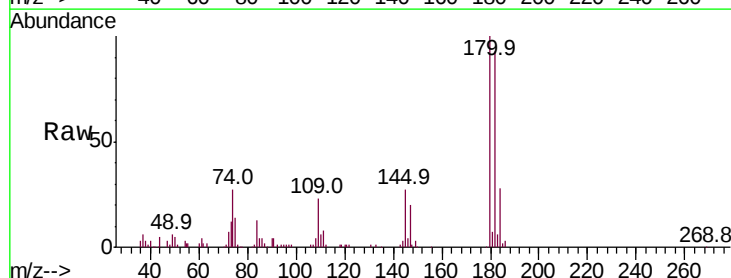
Tgt Ion:180 Resp: 48450

Ion Ratio Lower Upper

180 100

182 95.8 75.6 113.4

145 29.5 24.2 36.2



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

