

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV080619\
 Data File : VV012107.D
 Acq On : 06 Aug 2019 10:22
 Operator : SY/MD
 Sample : VSTD01064
 Misc : 5mL/MSVOA V/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Aug 06 17:55:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM080619W.M
 Quant Title : VOC Analysis
 QLast Update : Tue Aug 06 17:52:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	299100	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	272645	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	140825	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	14658	8.97	ug/L	0.00
7) Chloroethane-d5	1.57	69	10854	9.35	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.13	63	25312	8.93	ug/L	0.00
21) 2-Butanone-d5	3.93	46	21515	18.06	ug/L	0.00
24) Chloroform-d	4.40	84	38177	9.31	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	24565	9.32	ug/L	0.00
32) Benzene-d6	5.10	84	72002	9.18	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.12	67	20197	8.89	ug/L	0.00
41) Toluene-d8	7.36	98	69515	9.19	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.67	79	11580	8.96	ug/L	0.00
47) 2-Hexanone-d5	8.13	63	17119	18.14	ug/L	0.00
56) 1,1,2,2-Tetrachloroethane-	10.26	84	29108	9.09	ug/L	0.00
66) 1,2-Dichlorobenzene-d4	11.67	152	31268	9.44	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	21047	9.963	ug/L 98
3) Chloromethane	1.25	50	15436	10.290	ug/L 99
5) Vinyl chloride	1.32	62	13929	9.620	ug/L 97
6) Bromomethane	1.52	94	8081	9.613	ug/L 91
8) Chloroethane	1.59	64	7758	10.231	ug/L 97
9) Trichlorofluoromethane	1.77	101	23023	9.780	ug/L 96
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	11187	9.694	ug/L 98
12) 1,1-Dichloroethene	2.14	96	10426	9.594	ug/L 95
13) Acetone	2.19	43	15496	19.078	ug/L 99
14) Carbon disulfide	2.32	76	35744	9.734	ug/L 99
15) Methyl Acetate	2.46	43	13368	9.406	ug/L 100
16) Methylene chloride	2.53	84	16748	10.158	ug/L 93
17) trans-1,2-Dichloroethene	2.79	96	14811	9.652	ug/L 96
18) Methyl tert-butyl Ether	2.80	73	51698	9.805	ug/L 99
19) 1,1-Dichloroethane	3.23	63	27647	9.880	ug/L 96
20) cis-1,2-Dichloroethene	3.96	96	17533	9.701	ug/L 96
22) 2-Butanone	4.02	43	20057	19.161	ug/L # 65
23) Bromochloromethane	4.30	128	10031	10.093	ug/L 87
25) Chloroform	4.43	83	31822	10.032	ug/L 93
27) 1,2-Dichloroethane	5.18	62	23106	9.373	ug/L 100
29) Cyclohexane	4.73	56	22788	9.995	ug/L 98
30) 1,1,1-Trichloroethane	4.66	97	28892	9.976	ug/L # 88
31) Carbon tetrachloride	4.87	117	25987	9.672	ug/L 99
33) Benzene	5.15	78	61975	9.875	ug/L 100
34) Trichloroethene	5.96	95	16979	9.733	ug/L 97
35) Methylcyclohexane	6.18	83	25478	9.813	ug/L 97
37) 1,2-Dichloropropane	6.22	63	14715	9.612	ug/L # 96
38) Bromodichloromethane	6.56	83	23670	9.829	ug/L 96
39) cis-1,3-Dichloropropene	7.07	75	25511	9.452	ug/L 96
40) 4-Methyl-2-pentanone	7.27	43	39237	19.915	ug/L 98

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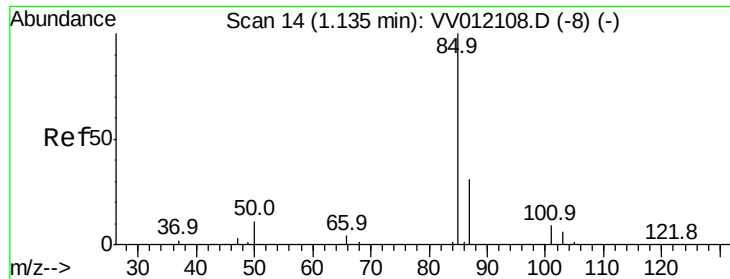
Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Aug 06 17:55:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM080619W.M
 Quant Title : VOC Analysis
 QLast Update : Tue Aug 06 17:52:34 2019
 Response via : Initial Calibration

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

42) Toluene	7.43	91	69191	9.922	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	24445	9.595	ug/L	97
45) 1,1,2-Trichloroethane	7.88	97	16727	10.137	ug/L	96
46) Tetrachloroethene	8.02	164	15863	9.760	ug/L	91
48) 2-Hexanone	8.18	43	29217	19.670	ug/L	98
49) Dibromochloromethane	8.29	129	20594	9.617	ug/L	99
50) 1,2-Dibromoethane	8.40	107	17995	9.860	ug/L #	98
51) Chlorobenzene	8.92	112	46885	9.972	ug/L	99
52) Ethylbenzene	9.05	91	75805	9.688	ug/L	98
53) m,p-Xylene	9.18	106	29059	9.627	ug/L	97
54) o-Xylene	9.59	106	29238	9.761	ug/L	100
55) Styrene	9.60	104	48044	9.521	ug/L	96
57) 1,1,2,2-Tetrachloroethane	10.28	83	24986	9.846	ug/L #	97
59) Bromoform	9.77	173	15902	9.627	ug/L	94
60) Isopropylbenzene	9.97	105	78842	10.227	ug/L	99
61) 1,2,3-Trichloropropane	10.32	75	19830	10.370	ug/L	98
62) 1,3,5-Trimethylbenzene	10.58	105	65463	9.911	ug/L	97
63) 1,2,4-Trimethylbenzene	10.96	105	64709	9.750	ug/L	99
64) 1,3-Dichlorobenzene	11.22	146	38088	9.792	ug/L	95
65) 1,4-Dichlorobenzene	11.31	146	38471	9.785	ug/L	97
67) 1,2-Dichlorobenzene	11.69	146	39901	10.054	ug/L	99
68) 1,2-Dibromo-3-chloropropan	12.48	75	6453	10.239	ug/L	88
69) 1,3,5-Trichlorobenzene	12.69	180	30652	9.721	ug/L	99
70) 1,2,4-trichlorobenzene	13.31	180	23480	8.588	ug/L	98
71) Naphthalene	13.55	128	55191	7.965	ug/L	98
72) 1,2,3-Trichlorobenzene	13.79	180	24370	8.858	ug/L	96

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



#2

Dichlorodifluoromethane

Concen: 9.963 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012107.D

Acq: 06 Aug 2019 10:22

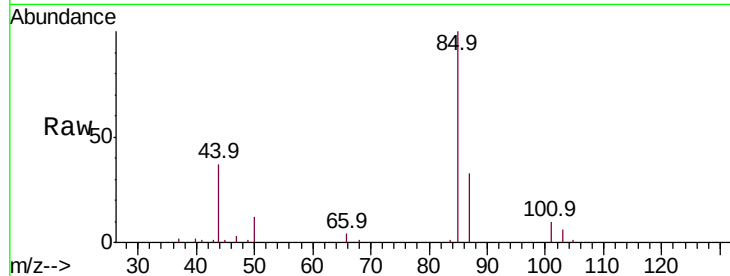
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 85 Resp: 21047

Ion Ratio Lower Upper

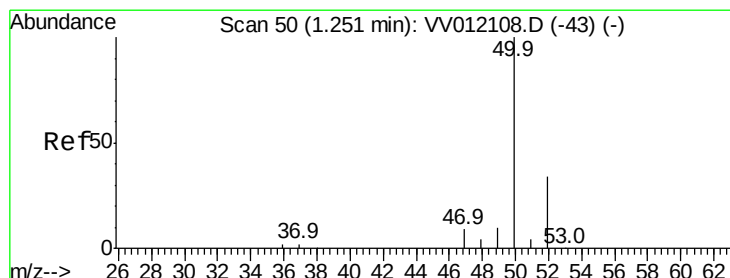
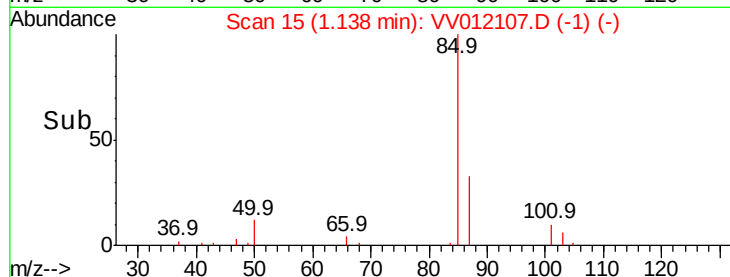
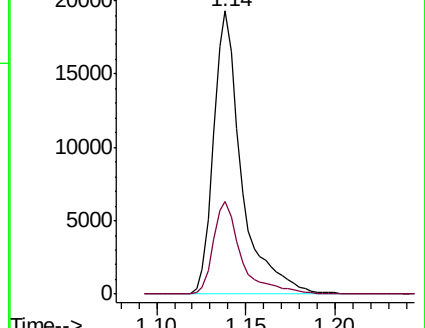
85 100

87 32.8 25.3 37.9



Abundance Ion 85.00 (84.70 to 85.70): VV012108.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV012108.D (-8) (-)



#3

Chloromethane

Concen: 10.290 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV012107.D

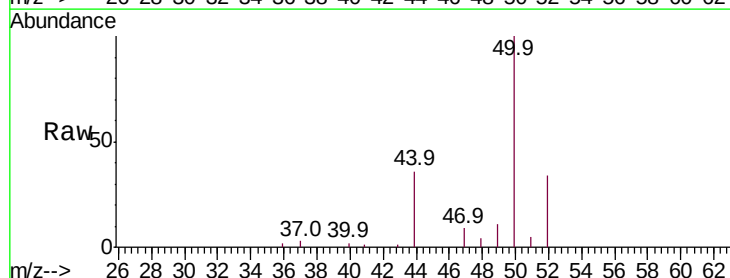
Acq: 06 Aug 2019 10:22

Tgt Ion: 50 Resp: 15436

Ion Ratio Lower Upper

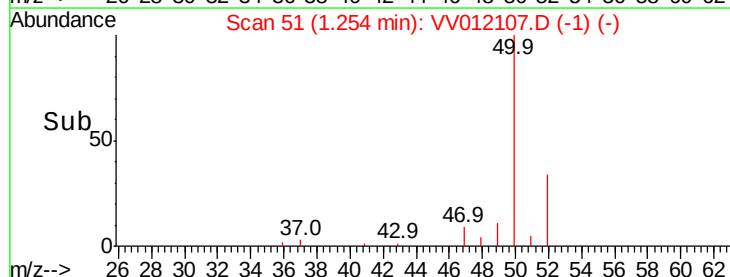
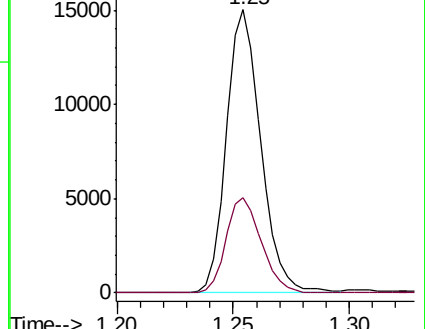
50 100

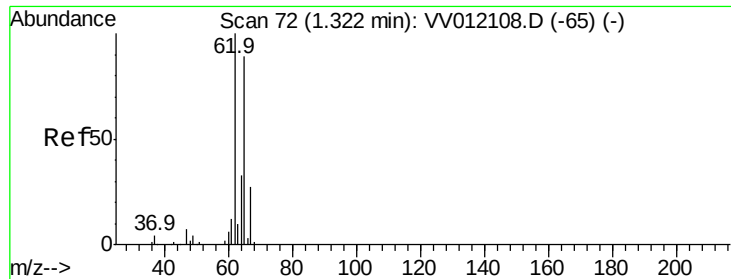
52 33.7 23.9 44.3



Abundance Ion 50.00 (49.70 to 50.70): VV012108.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV012108.D (-43) (-)





#5

Vinyl chloride

Concen: 9.620 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV012107.D

Acq: 06 Aug 2019 10:22

Instrument :

MSVOA_V

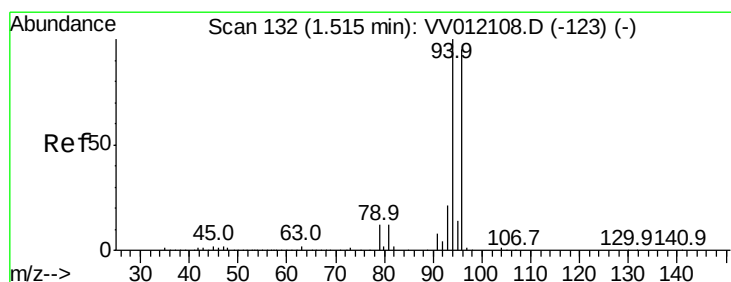
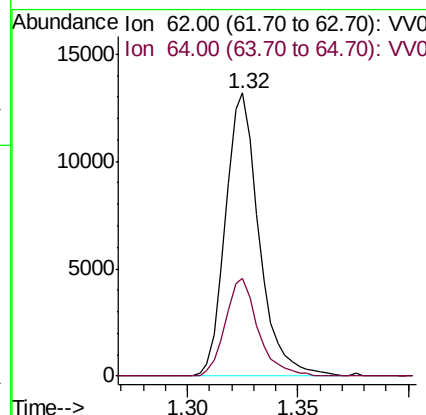
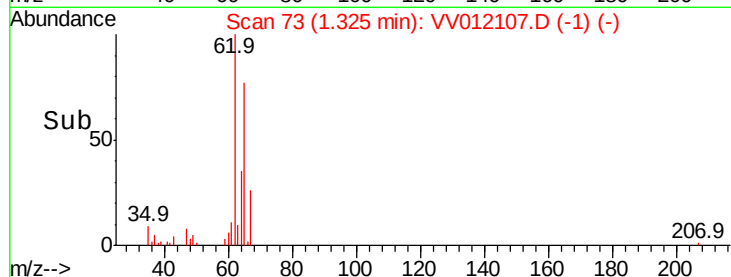
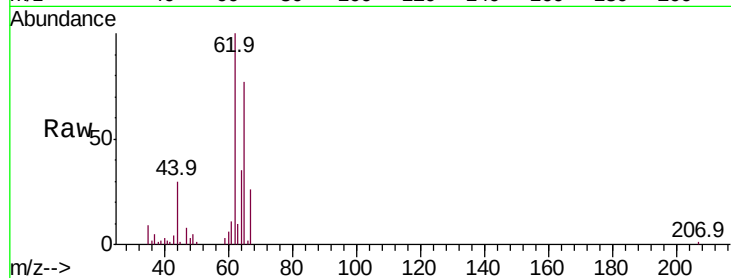
ClientSampled :

Tot Ion: 62 Resp: 13929

Ion Ratio Lower Upper

62 100

64 34.8 23.0 42.8



#6

Bromomethane

Concen: 9.613 ug/L

RT: 1.52 min Scan# 134

Delta R.T. 0.01 min

Lab File: VV012107.D

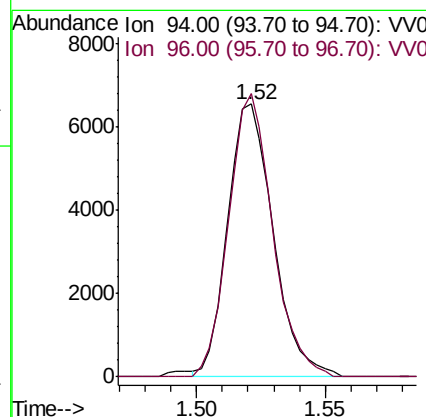
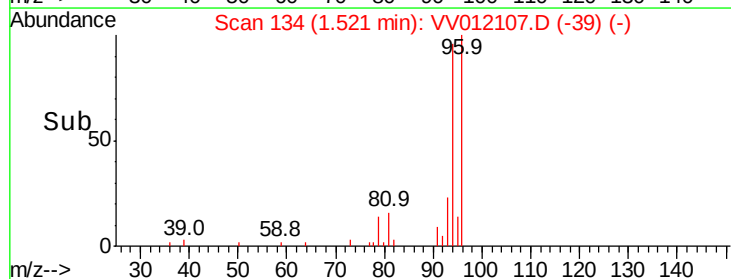
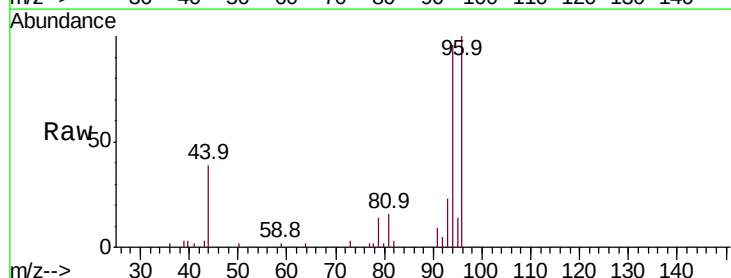
Acq: 06 Aug 2019 10:22

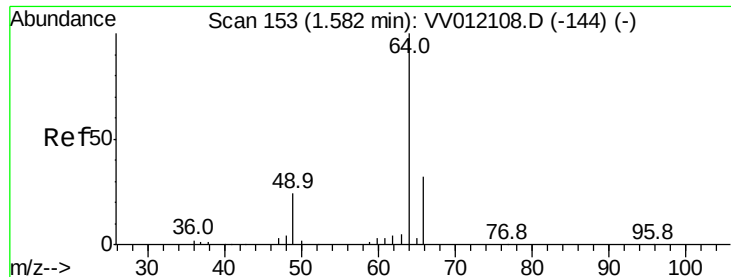
Tgt Ion: 94 Resp: 8081

Ion Ratio Lower Upper

94 100

96 103.9 66.8 124.0





#8

Chloroethane

Concen: 10.231 ug/L

RT: 1.59 min Scan# 156

Delta R.T. 0.01 min

Lab File: VV012107.D

Acq: 06 Aug 2019 10:22

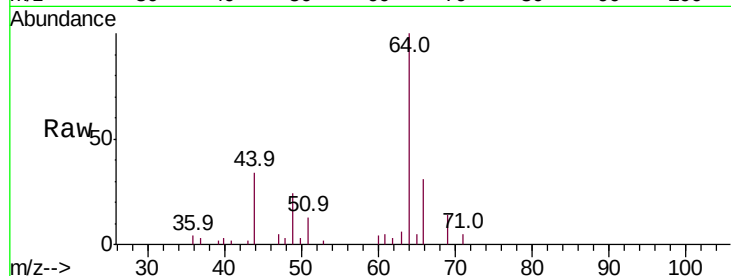
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 64 Resp: 7758

Ion Ratio Lower Upper

64 100

66 30.8 22.6 42.0



Abundance Ion 64.00 (63.70 to 64.70): VV012108.D (-144) (-)

Ion 66.00 (65.70 to 66.70): VV012108.D (-144) (-)

1.59

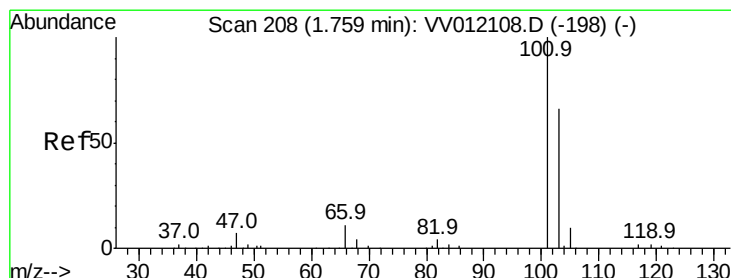
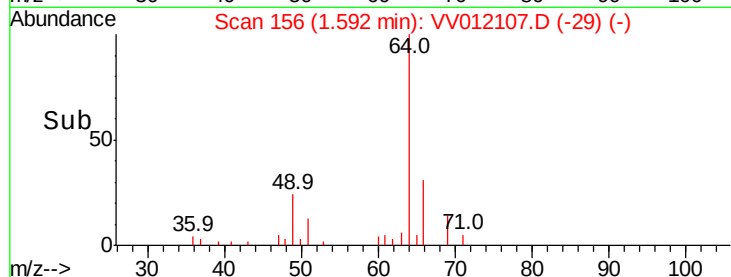
6000

4000

2000

0

Time-->



#9

Trichlorofluoromethane

Concen: 9.780 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.01 min

Lab File: VV012107.D

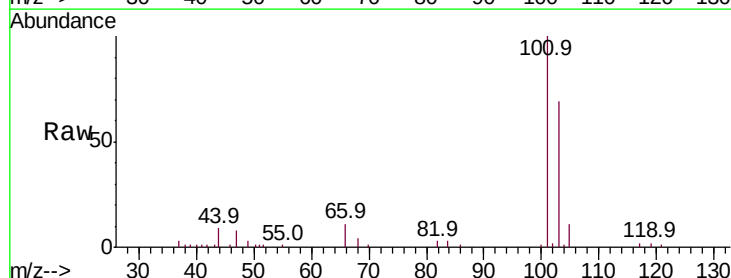
Acq: 06 Aug 2019 10:22

Tgt Ion: 101 Resp: 23023

Ion Ratio Lower Upper

101 100

103 68.7 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): VV012108.D (-198) (-)

Ion 103.00 (102.70 to 103.70): VV012108.D (-198) (-)

1.77

20000

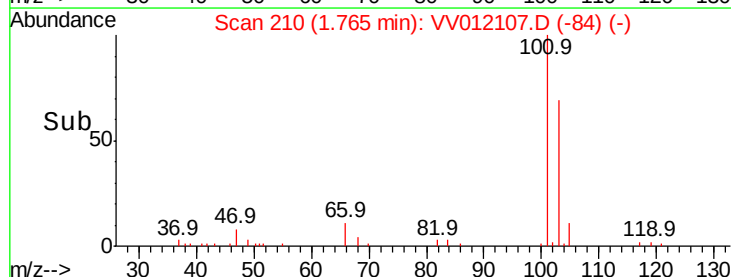
15000

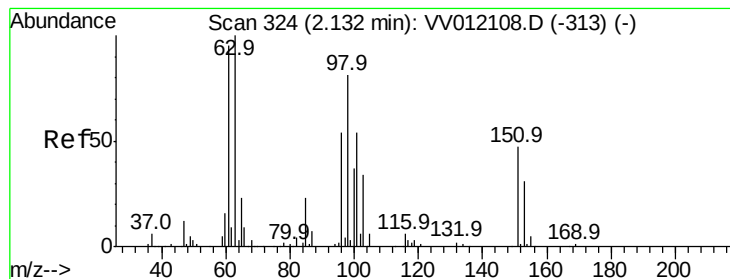
10000

5000

0

Time-->





#10

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

Concen: 9.694 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.01 min

Lab File: VV012107.D

Acq: 06 Aug 2019 10:22

Instrument :

MSVOA_V

ClientSampled :

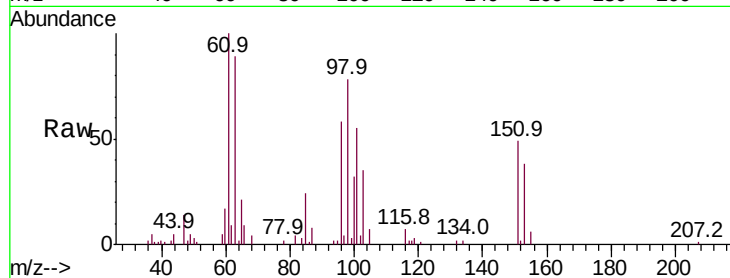
Tot Ion:101 Resp: 11187

Ion Ratio Lower Upper

101 100

85 45.6 34.4 51.6

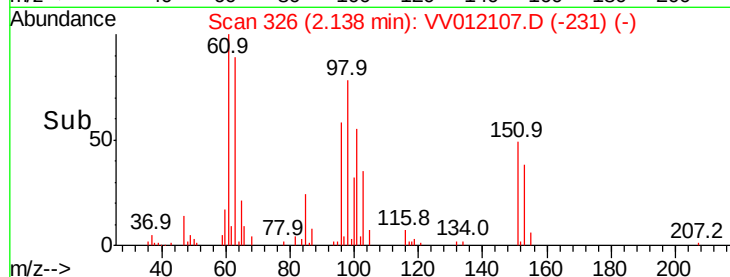
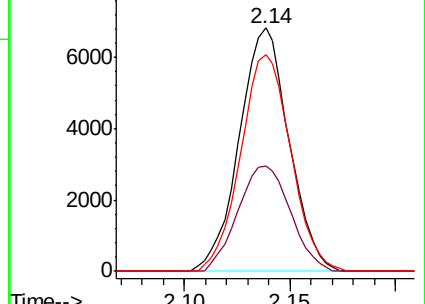
151 89.8 72.2 108.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 9.594 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012107.D

Acq: 06 Aug 2019 10:22

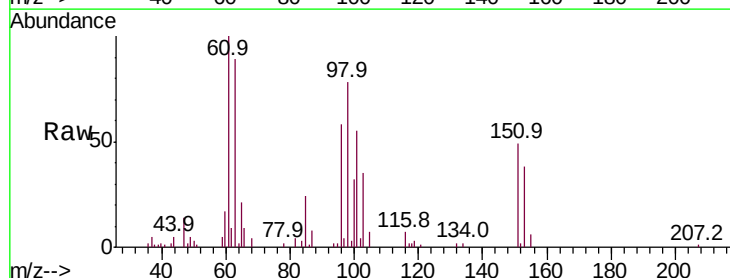
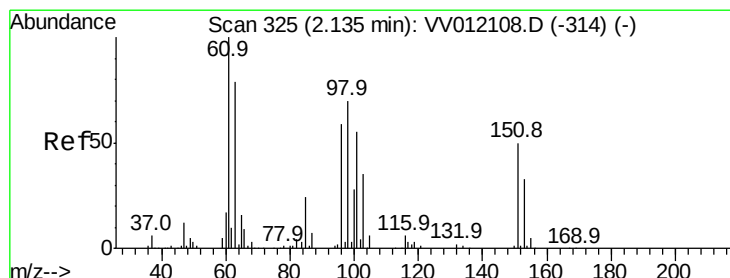
Tgt Ion: 96 Resp: 10426

Ion Ratio Lower Upper

96 100

61 173.0 120.0 223.0

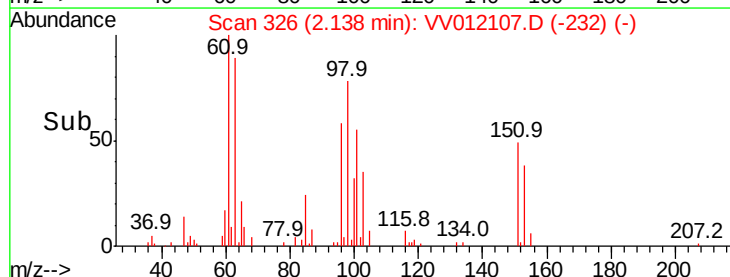
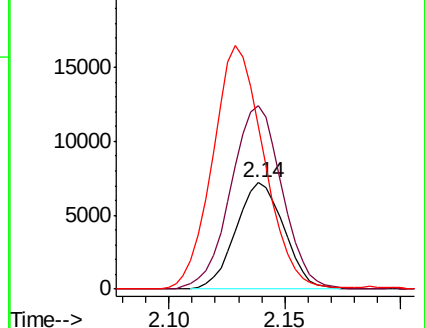
63 153.6 98.3 182.7

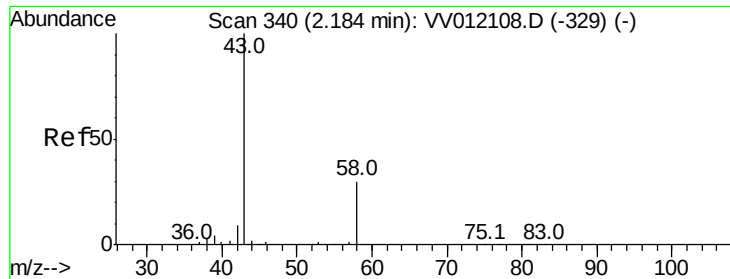


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 19.078 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

Lab File: VV012107.D

Acq: 06 Aug 2019 10:22

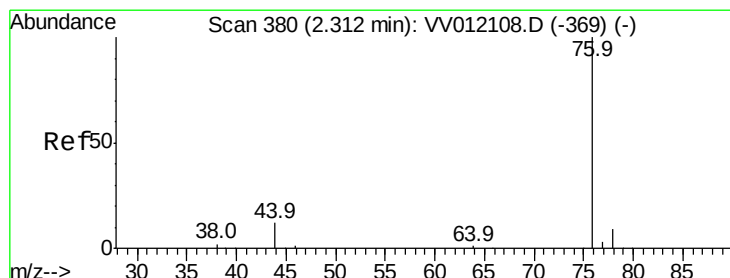
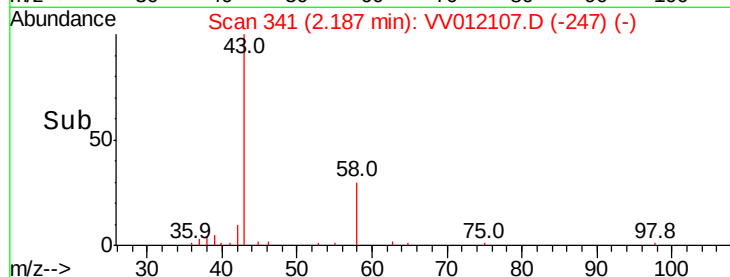
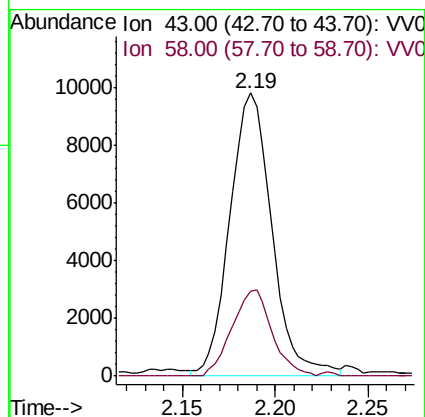
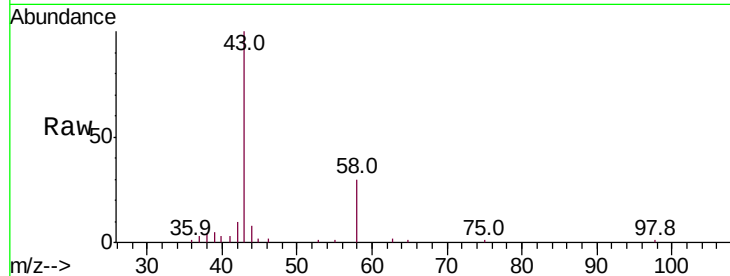
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 15496

Ion Ratio Lower Upper

43 100

58 28.8 0.0 59.2



#14

Carbon disulfide

Concen: 9.734 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.01 min

Lab File: VV012107.D

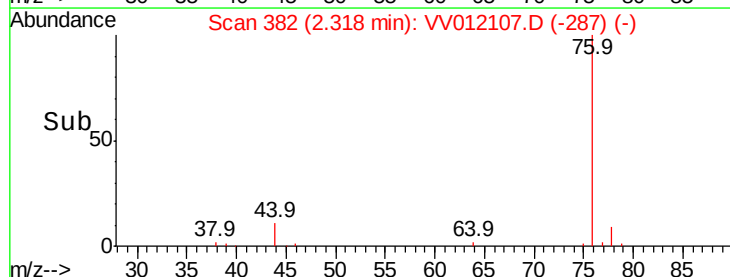
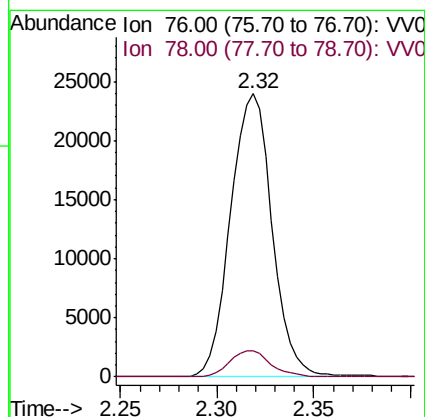
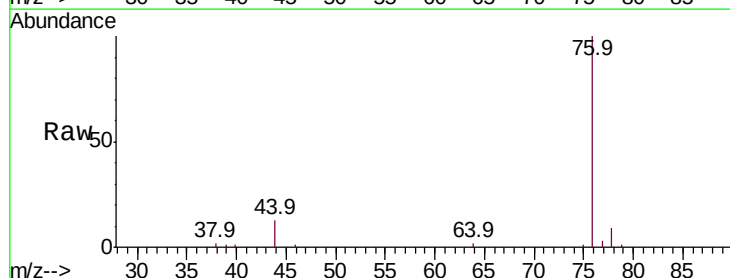
Acq: 06 Aug 2019 10:22

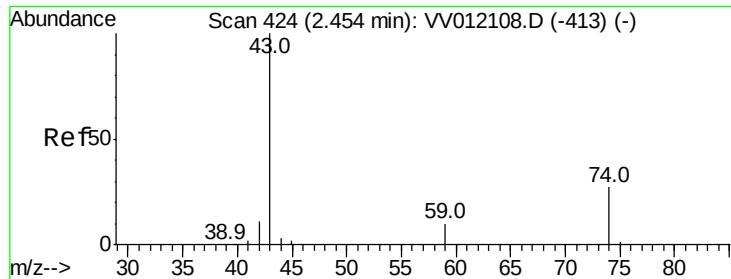
Tgt Ion: 76 Resp: 35744

Ion Ratio Lower Upper

76 100

78 9.4 7.1 10.7

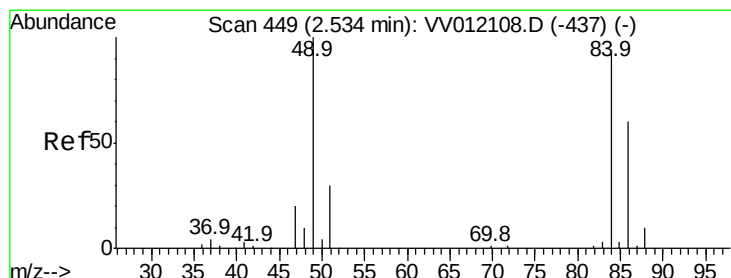
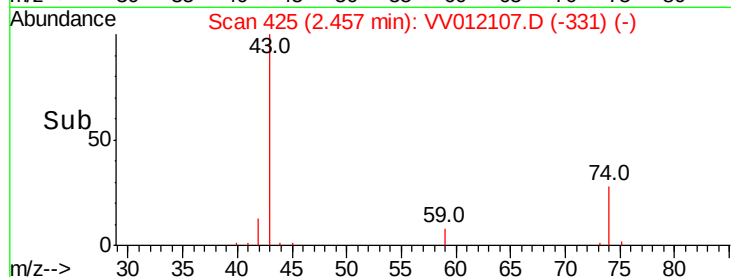
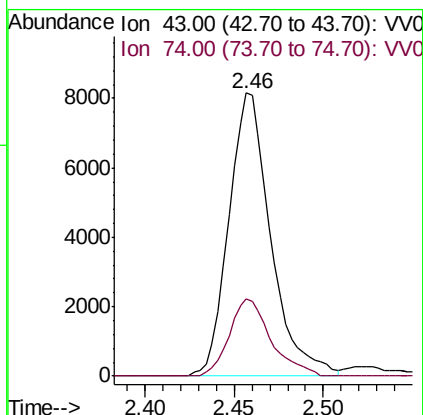
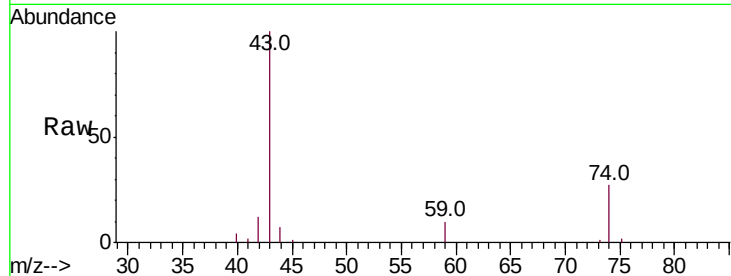




#15
Methvl Acetate
Concen: 9.406 ug/L
RT: 2.46 min Scan# 425
Delta R.T. 0.00 min
Lab File: VV012107.D
Acq: 06 Aug 2019 10:22

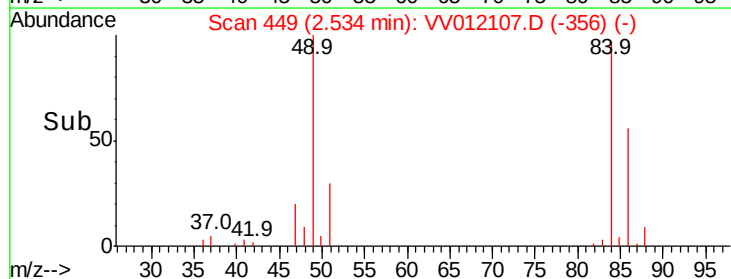
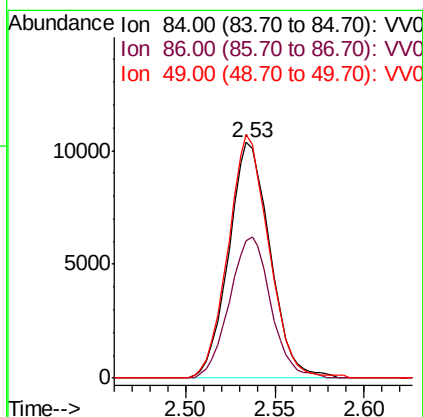
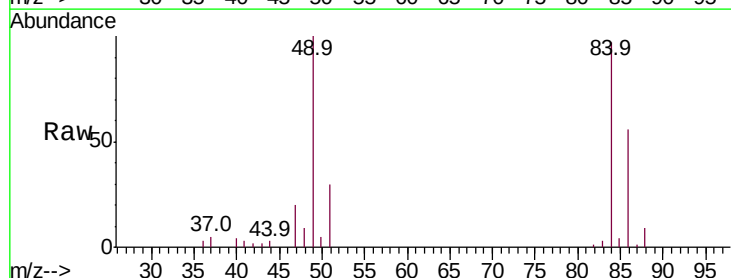
Instrument :
MSVOA_V
ClientSampleId :

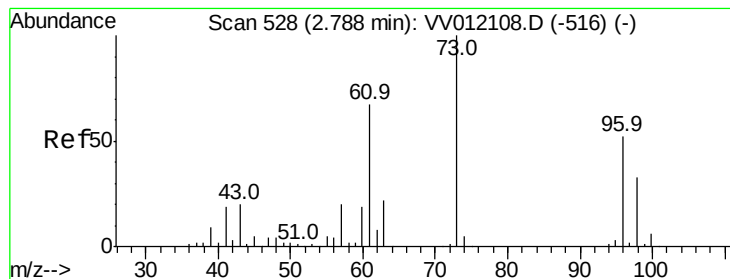
Tot Ion: 43 Resp: 13368
Ion Ratio Lower Upper
43 100
74 27.0 21.8 32.6



#16
Methylene chloride
Concen: 10.158 ug/L
RT: 2.53 min Scan# 449
Delta R.T. -0.00 min
Lab File: VV012107.D
Acq: 06 Aug 2019 10:22

Tgt Ion: 84 Resp: 16748
Ion Ratio Lower Upper
84 100
86 58.3 45.7 84.9
49 103.4 76.6 142.2





#17

trans-1,2-Dichloroethene

Concen: 9.652 ug/L

RT: 2.79 min Scan# 530

Delta R.T. 0.01 min

Lab File: VV012107.D

Acq: 06 Aug 2019 10:22

Instrument :
MSVOA_V
ClientSampled :

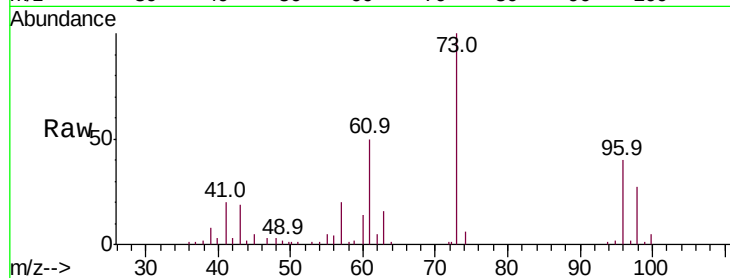
Tot Ion: 96 Resp: 14811

Ion Ratio Lower Upper

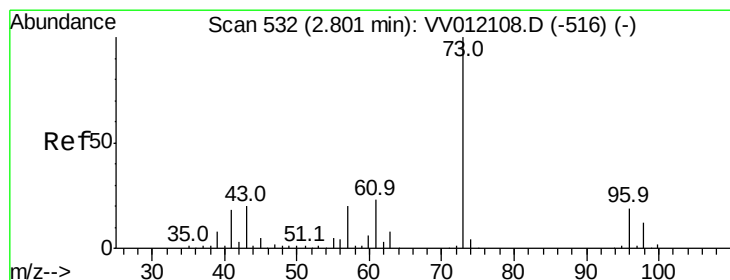
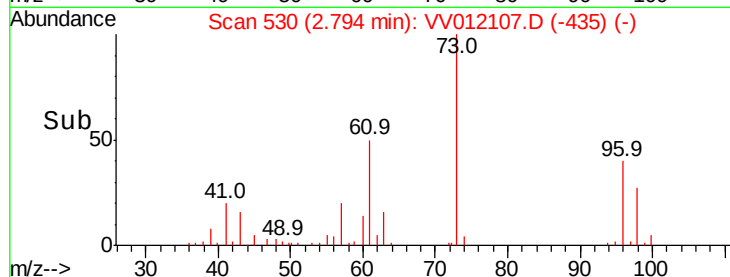
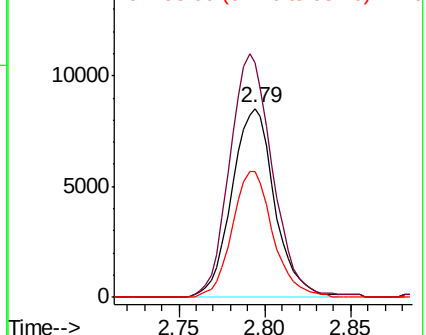
96 100

61 124.3 90.6 168.3

98 66.6 44.2 82.2



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: 9.805 ug/L

RT: 2.80 min Scan# 532

Delta R.T. -0.00 min

Lab File: VV012107.D

Acq: 06 Aug 2019 10:22

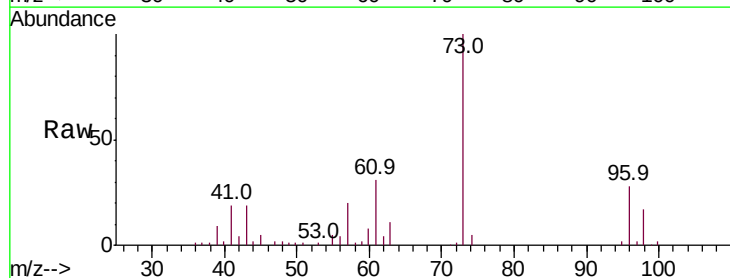
Tgt Ion: 73 Resp: 51698

Ion Ratio Lower Upper

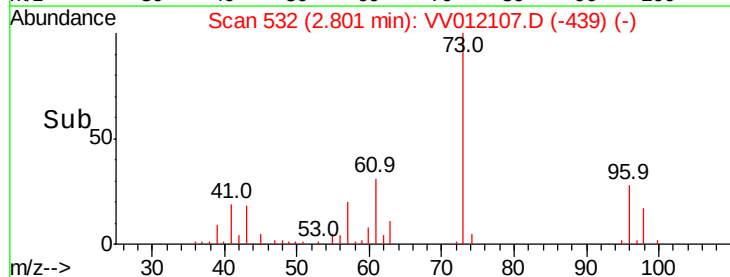
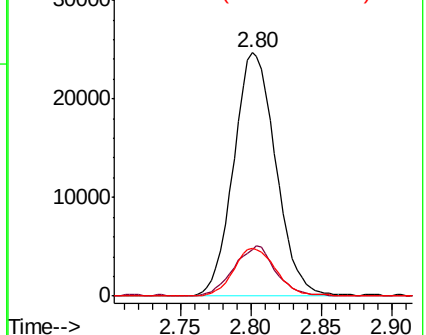
73 100

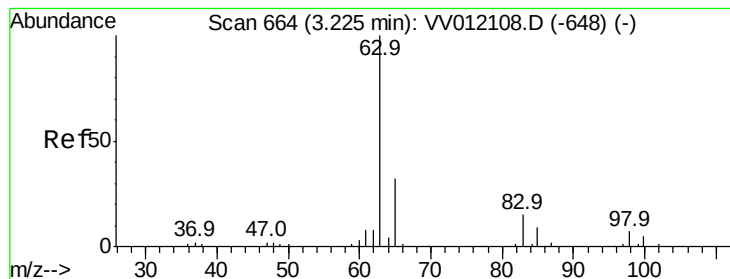
43 20.3 15.6 23.4

57 19.6 16.0 24.0



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: 9.880 ug/L

RT: 3.23 min Scan# 666

Delta R.T. 0.01 min

Lab File: VV012107.D

Acq: 06 Aug 2019 10:22

Instrument :
MSVOA_V
ClientSampled :

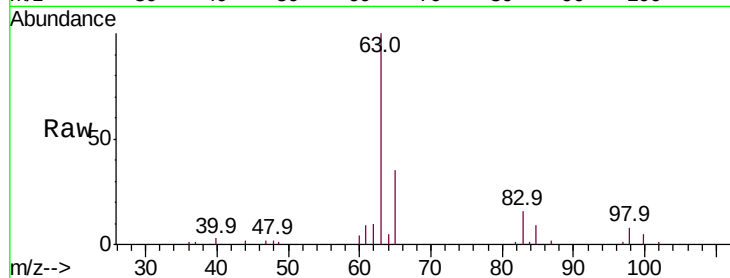
Tot Ion: 63 Resp: 27647

Ion Ratio Lower Upper

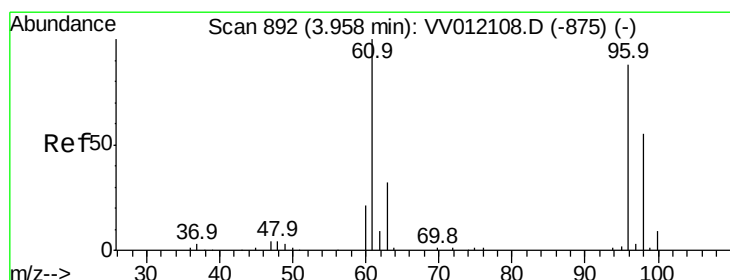
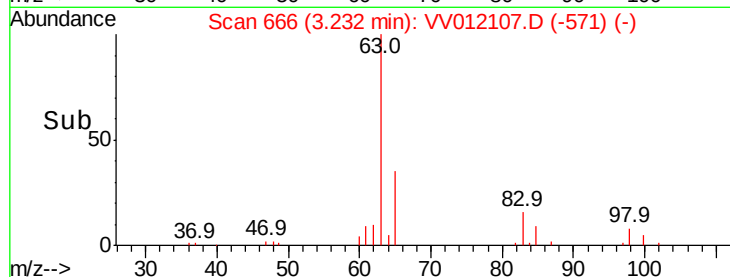
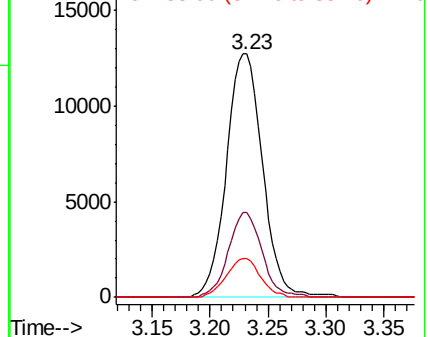
63 100

65 34.7 22.3 41.3

83 15.9 10.3 19.1



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



#20

cis-1,2-Dichloroethene

Concen: 9.701 ug/L

RT: 3.96 min Scan# 892

Delta R.T. -0.00 min

Lab File: VV012107.D

Acq: 06 Aug 2019 10:22

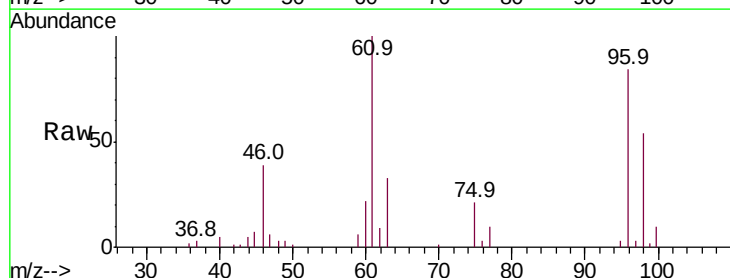
Tgt Ion: 96 Resp: 17533

Ion Ratio Lower Upper

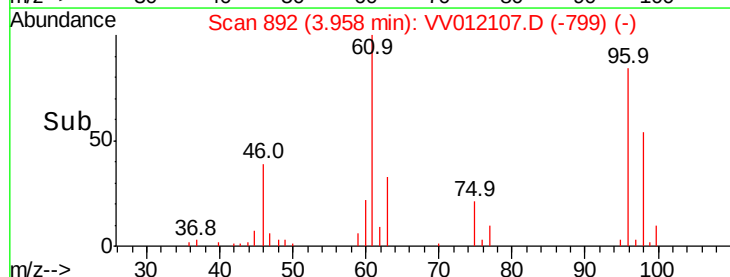
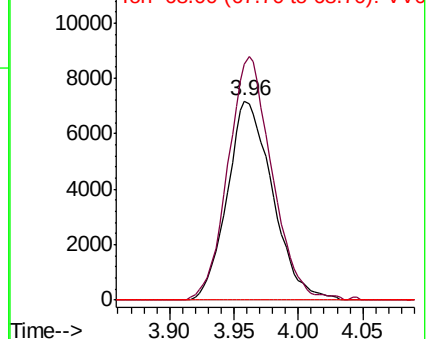
96 100

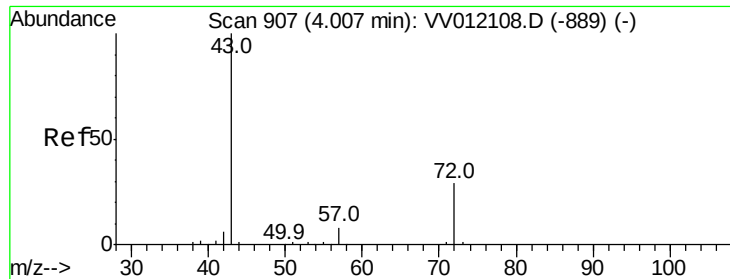
61 118.8 80.0 148.6

68 0.0 0.0 0.0



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





#22

2-Butanone

Concen: 19.161 ug/L

RT: 4.02 min Scan# 910

Delta R.T. 0.01 min

Lab File: VV012107.D

Acq: 06 Aug 2019 10:22

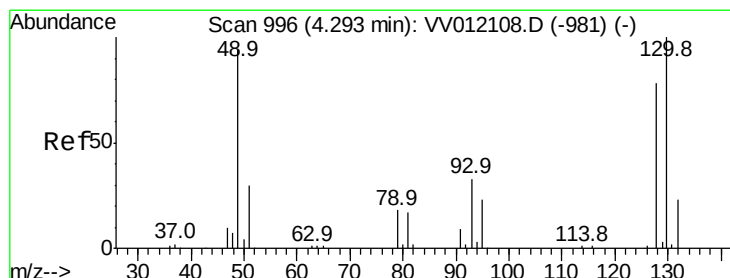
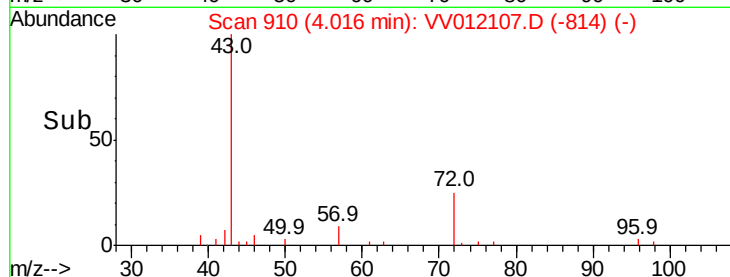
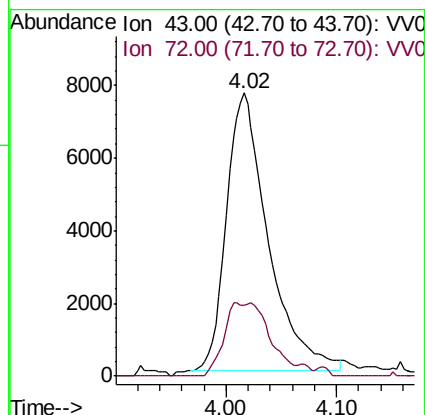
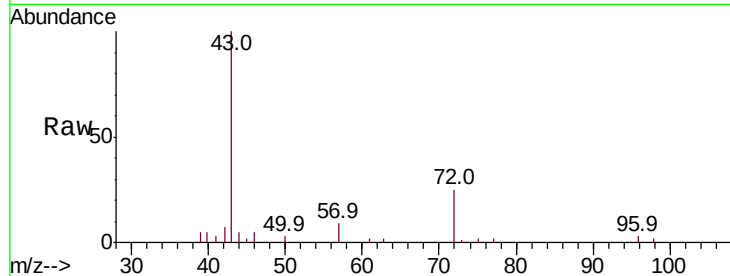
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 20057

Ion Ratio Lower Upper

43 100

72 11.2 15.0 45.0#



#23

Bromochloromethane

Concen: 10.093 ug/L

RT: 4.30 min Scan# 997

Delta R.T. 0.00 min

Lab File: VV012107.D

Acq: 06 Aug 2019 10:22

Tgt Ion: 128 Resp: 10031

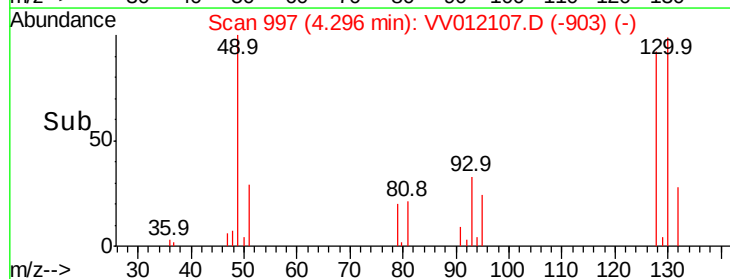
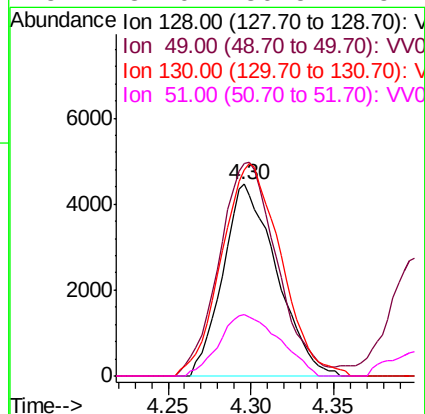
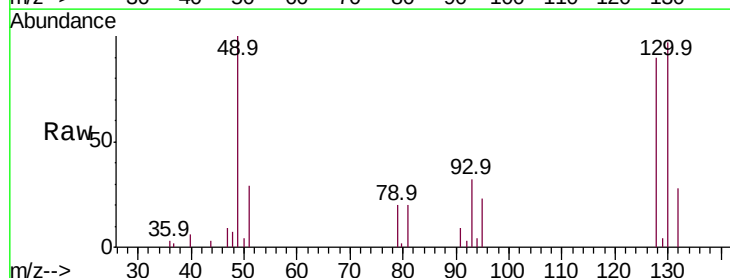
Ion Ratio Lower Upper

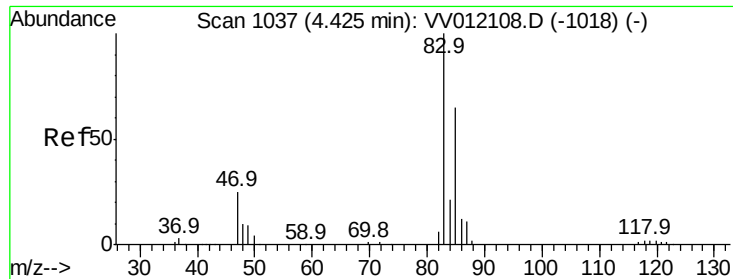
128 100

49 111.0 84.6 157.2

130 107.7 89.9 167.0

51 32.0 30.5 45.7





#25

Chloroform

Concen: 10.032 ug/L

RT: 4.43 min Scan# 1038

Delta R.T. 0.00 min

Lab File: VV012107.D

Acq: 06 Aug 2019 10:22

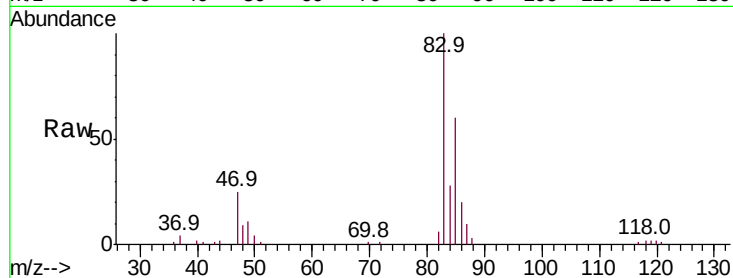
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 83 Resp: 31822

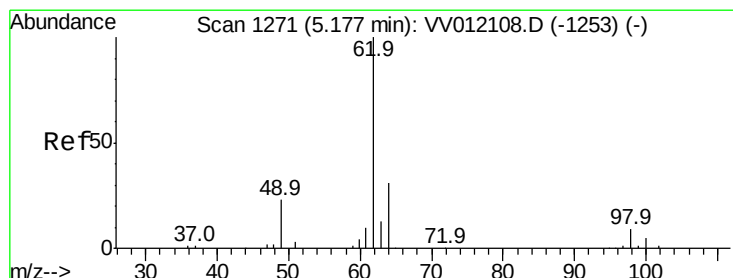
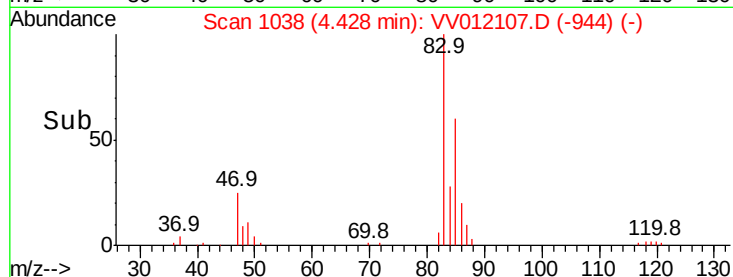
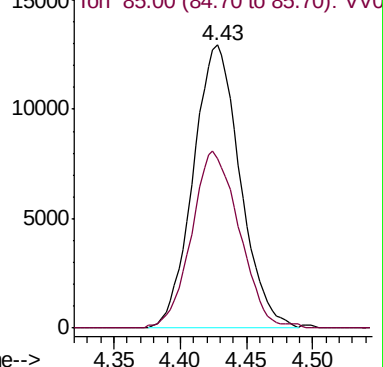
Ion Ratio Lower Upper

83 100

85 60.0 45.8 85.2



Abundance Ion 83.00 (82.70 to 83.70): VV012107.D (-944) (-)



#27

1,2-Dichloroethane

Concen: 9.373 ug/L

RT: 5.18 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VV012107.D

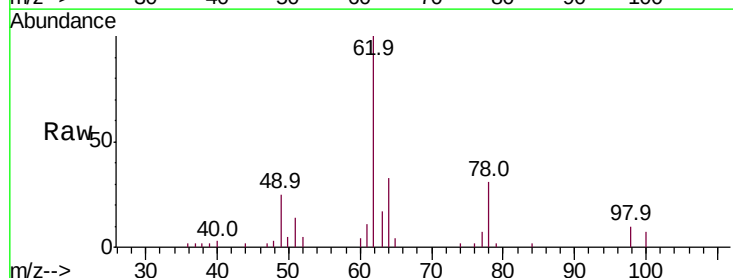
Acq: 06 Aug 2019 10:22

Tgt Ion: 62 Resp: 23106

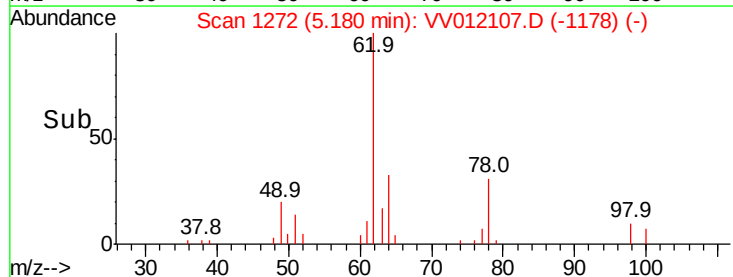
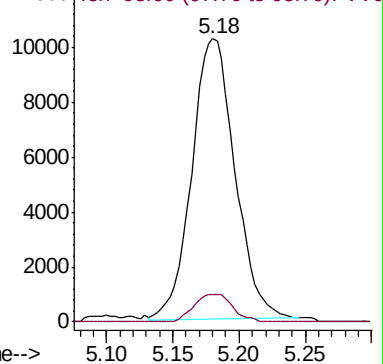
Ion Ratio Lower Upper

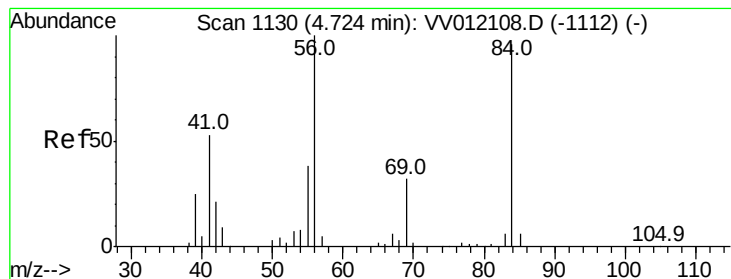
62 100

98 9.6 7.5 11.3



Abundance Ion 62.00 (61.70 to 62.70): VV012107.D (-1178) (-)





#29

Cyclohexane

Concen: 9.995 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VV012107.D

Acq: 06 Aug 2019 10:22

Instrument :
MSVOA_V
ClientSampled :

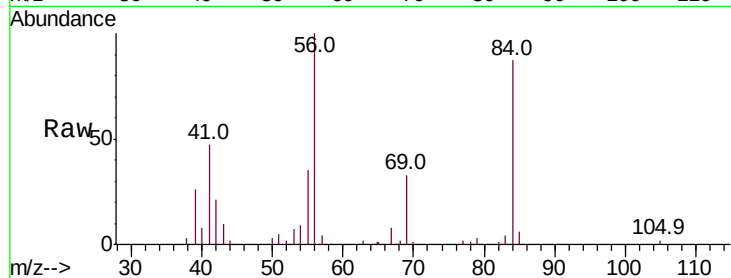
Tot Ion: 56 Resp: 22788

Ion Ratio Lower Upper

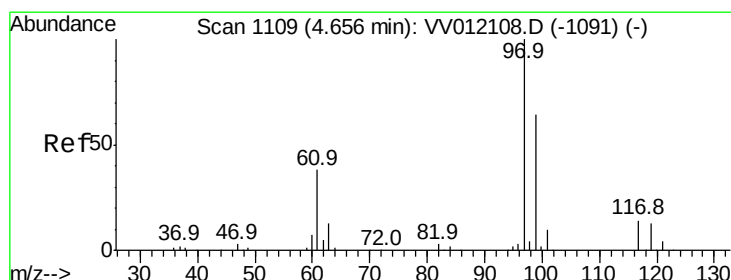
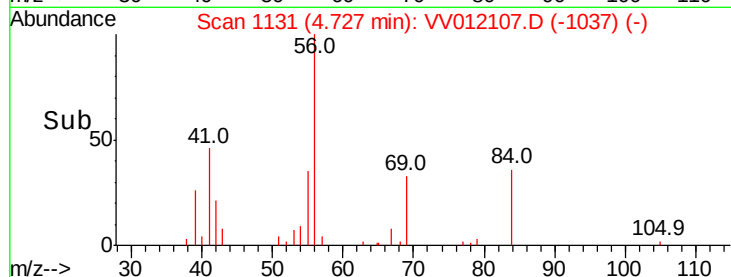
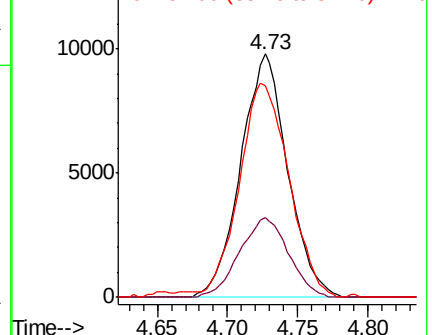
56 100

69 34.1 25.8 38.8

84 93.0 76.0 114.0



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: 9.976 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VV012107.D

Acq: 06 Aug 2019 10:22

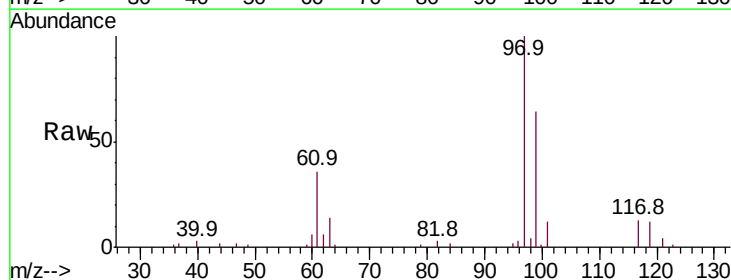
Tgt Ion: 97 Resp: 28892

Ion Ratio Lower Upper

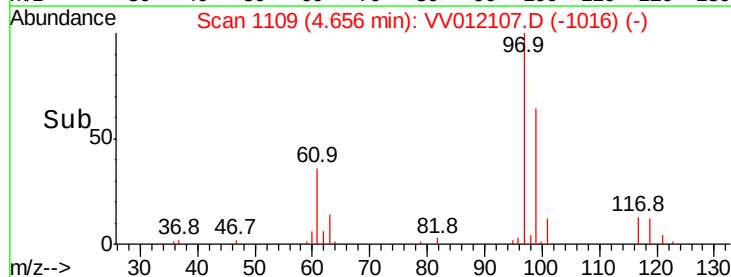
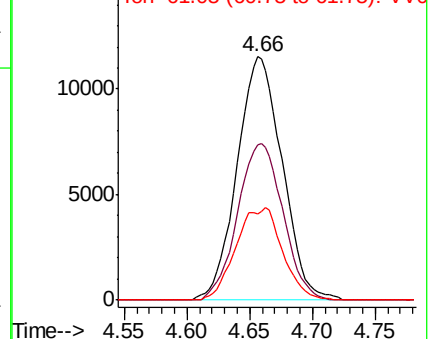
97 100

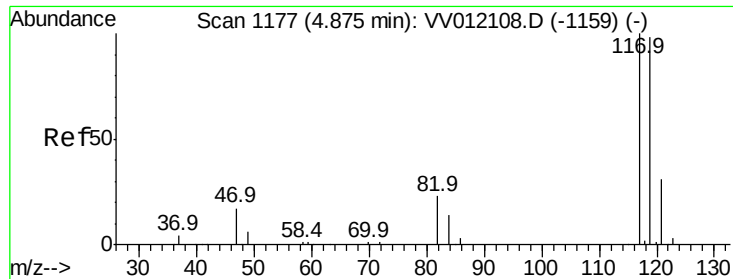
99 64.2 51.1 76.7

61 19.5 31.3 46.9#



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



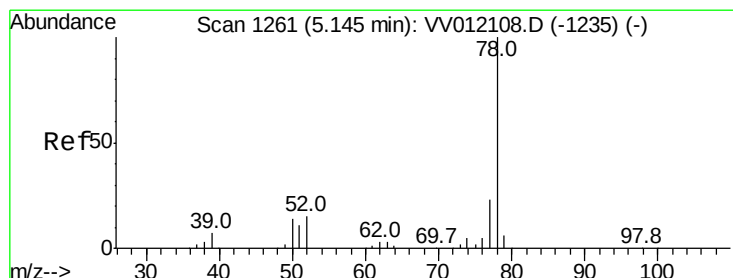
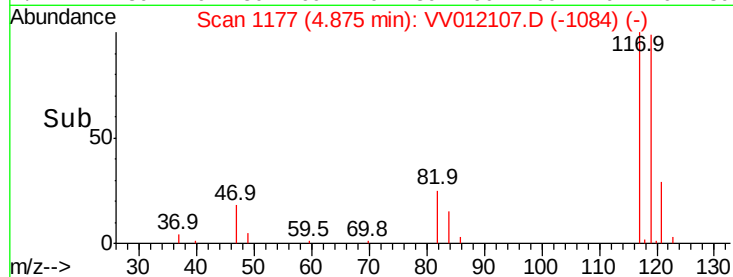
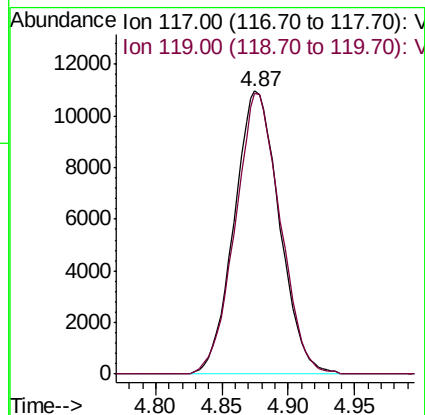
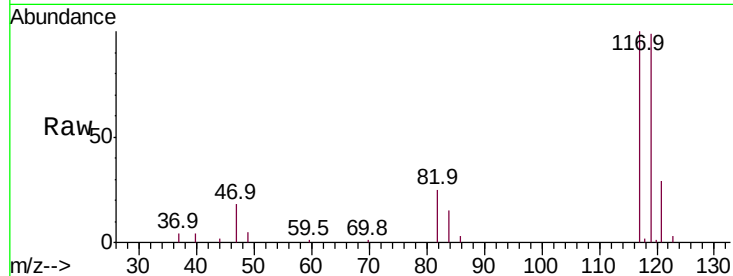


#31

Carbon tetrachloride
 Concen: 9.672 ug/L
 RT: 4.87 min Scan# 1177
 Delta R.T. -0.00 min
 Lab File: VV012107.D
 Acq: 06 Aug 2019 10:22

Instrument :
 MSVOA_V
 ClientSampleId :

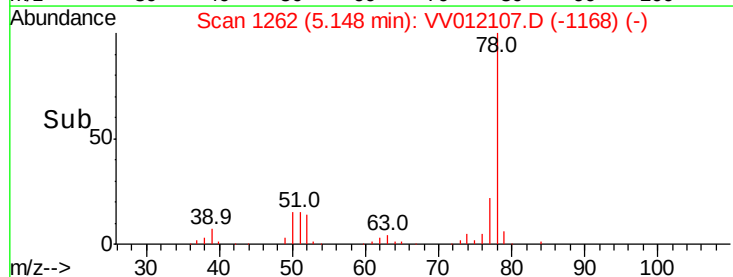
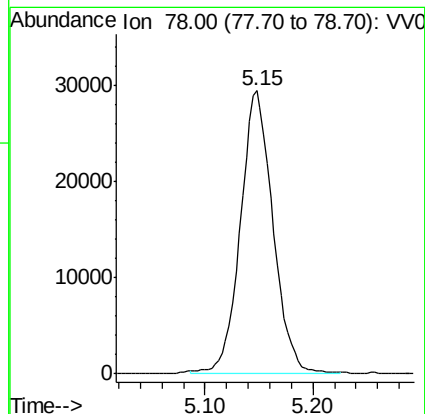
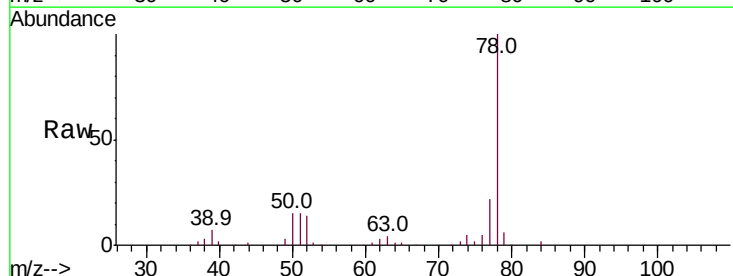
Tot Ion:117 Resp: 25987
 Ion Ratio Lower Upper
 117 100
 119 98.4 78.2 117.4

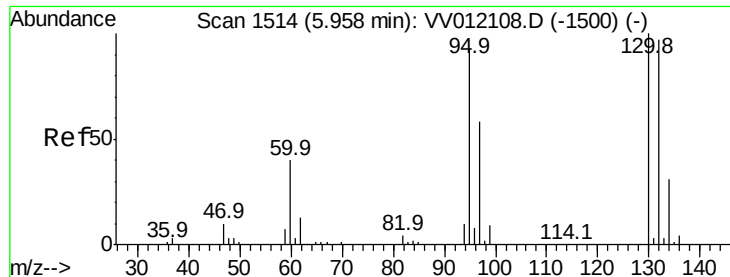


#33

Benzene
 Concen: 9.875 ug/L
 RT: 5.15 min Scan# 1262
 Delta R.T. 0.00 min
 Lab File: VV012107.D
 Acq: 06 Aug 2019 10:22

Tgt Ion: 78 Resp: 61975





#34

Trichloroethene

Concen: 9.733 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. 0.00 min

Lab File: VV012107.D

Acq: 06 Aug 2019 10:22

Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 95 Resp: 16979

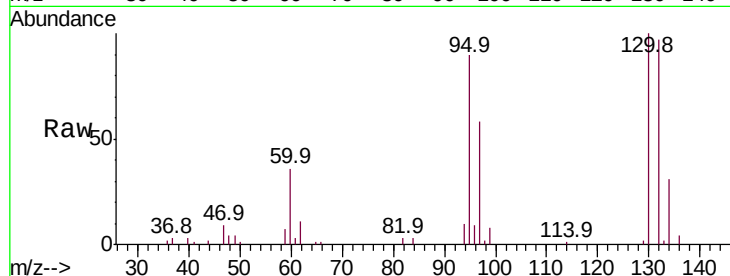
Ion Ratio Lower Upper

95 100

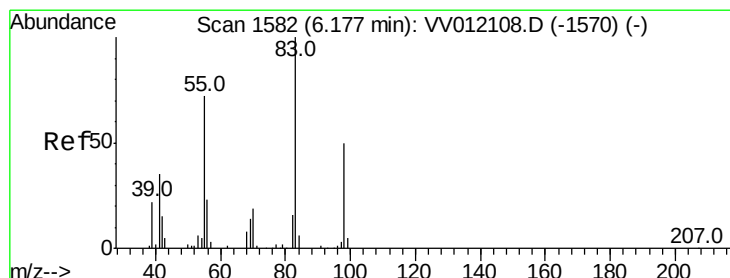
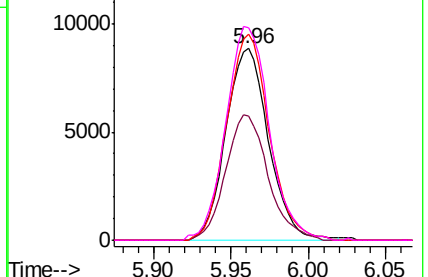
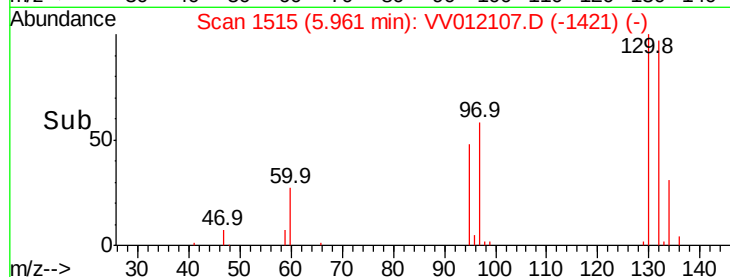
97 64.5 43.4 80.6

132 107.7 73.1 135.8

130 110.9 75.3 139.8



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: 9.813 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. -0.00 min

Lab File: VV012107.D

Acq: 06 Aug 2019 10:22

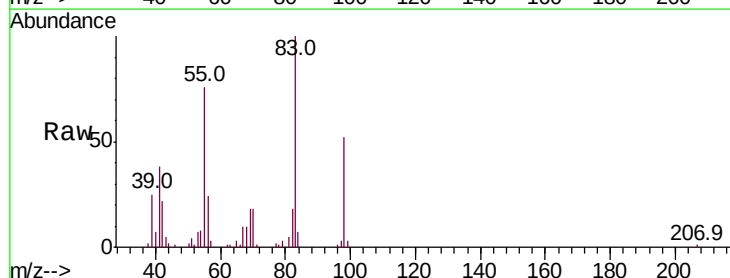
Tgt Ion: 83 Resp: 25478

Ion Ratio Lower Upper

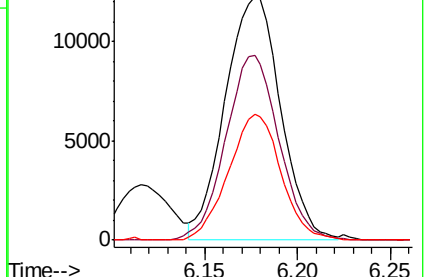
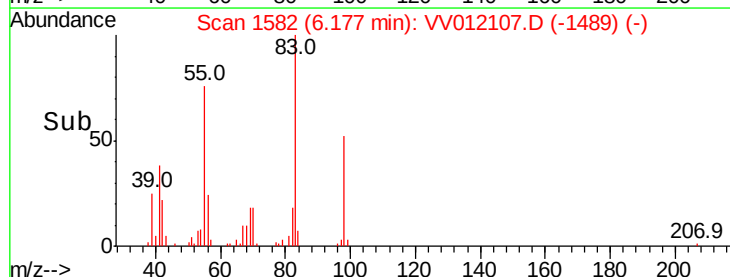
83 100

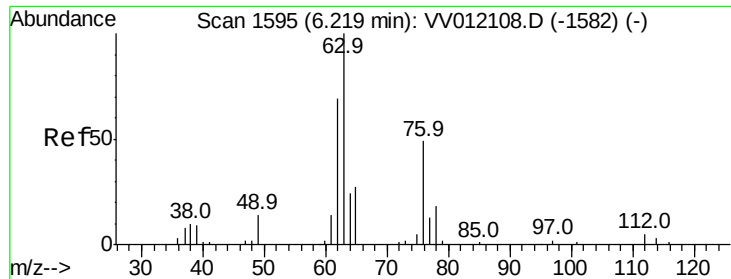
55 72.6 55.5 83.3

98 48.8 38.5 57.7



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: 9.612 ug/L

RT: 6.22 min Scan# 1596

Delta R.T. 0.00 min

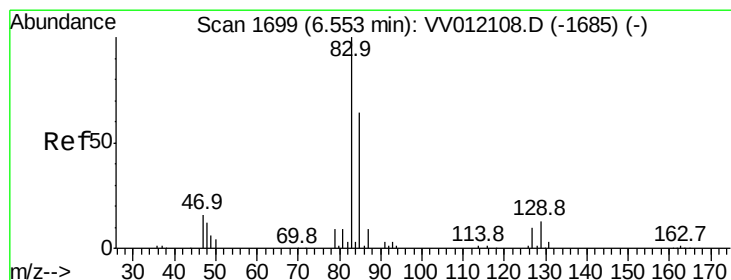
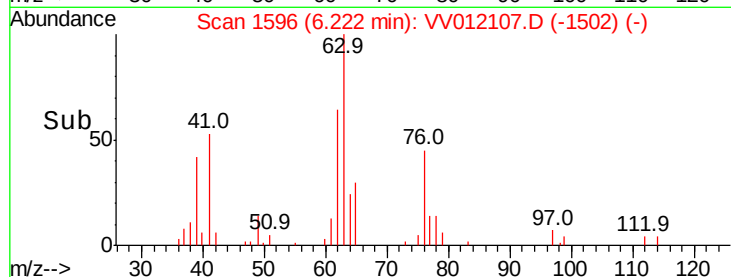
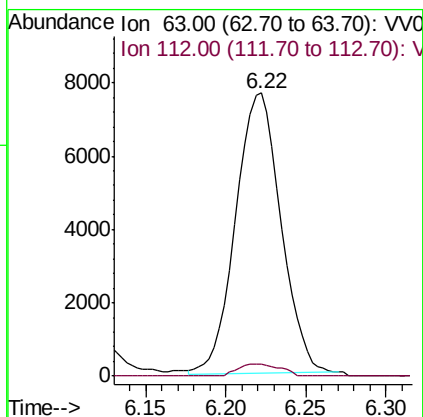
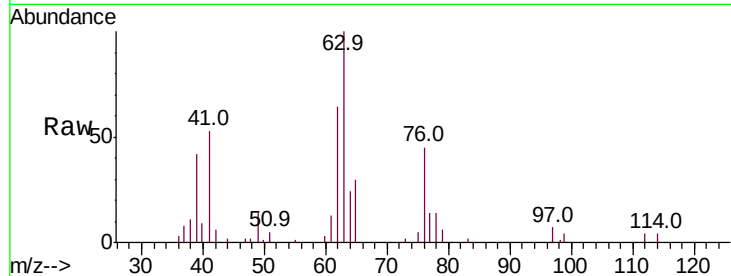
Lab File: VV012107.D

Acq: 06 Aug 2019 10:22

Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 63 Resp: 14715

Ion	Ratio	Lower	Upper
63	100		
112	4.0	4.2	6.2#



#38

Bromodichloromethane

Concen: 9.829 ug/L

RT: 6.56 min Scan# 1700

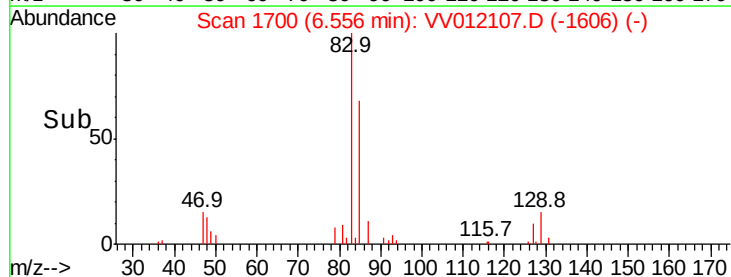
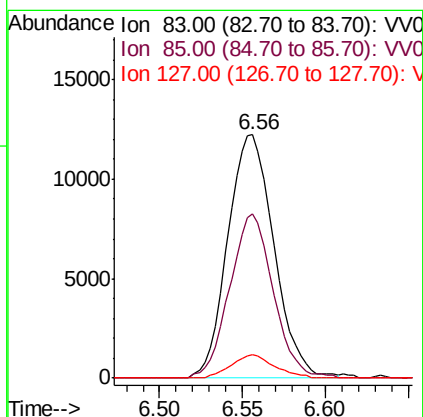
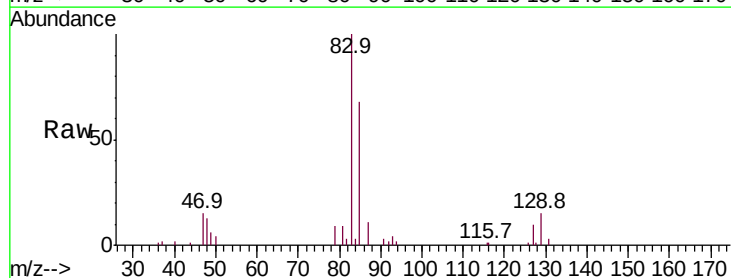
Delta R.T. 0.00 min

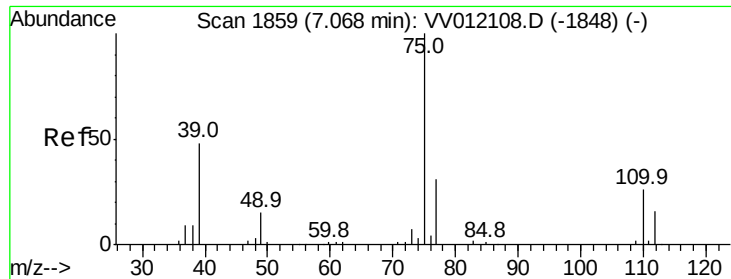
Lab File: VV012107.D

Acq: 06 Aug 2019 10:22

Tgt Ion: 83 Resp: 23670

Ion	Ratio	Lower	Upper
83	100		
85	67.7	45.0	83.6
127	10.7	7.9	11.9

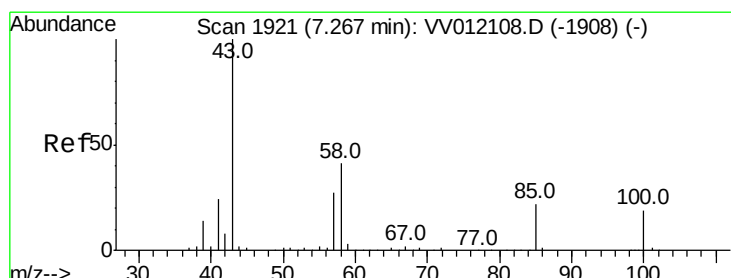
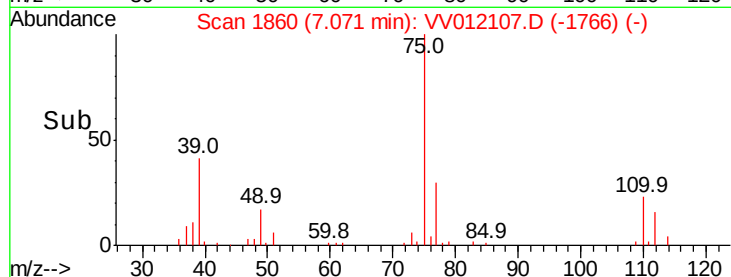
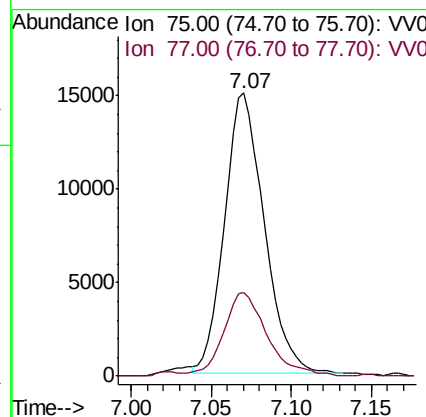
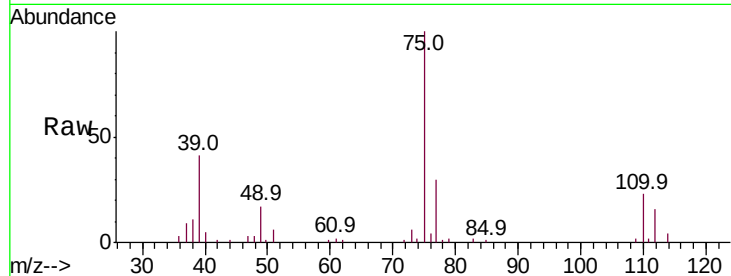




#39
 cis-1,3-Dichloropropene
 Concen: 9.452 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV012107.D
 Acq: 06 Aug 2019 10:22

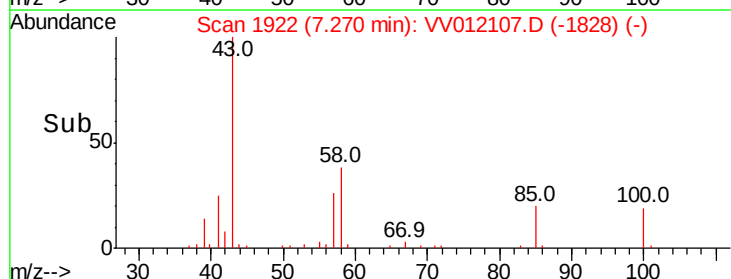
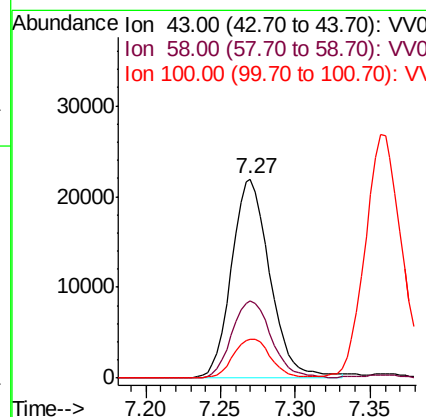
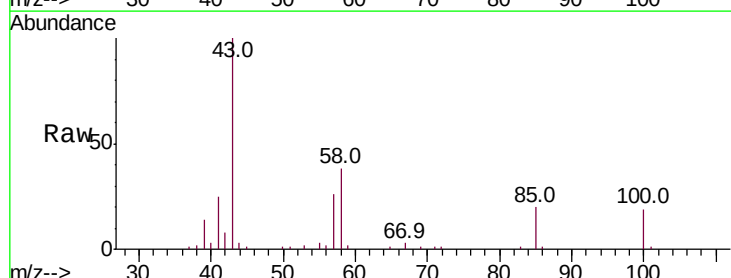
Instrument :
 MSVOA_V
 ClientSampled :

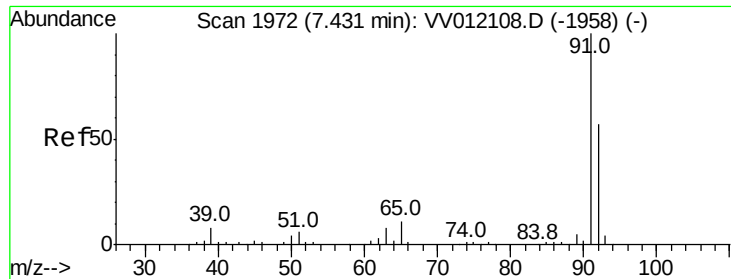
Tot Ion: 75 Resp: 25511
 Ion Ratio Lower Upper
 75 100
 77 29.7 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 19.915 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VV012107.D
 Acq: 06 Aug 2019 10:22

Tgt Ion: 43 Resp: 39237
 Ion Ratio Lower Upper
 43 100
 58 39.8 33.4 50.2
 100 19.2 15.0 22.4





#42

Toluene

Concen: 9.922 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV012107.D

Acq: 06 Aug 2019 10:22

Instrument :

MSVOA_V

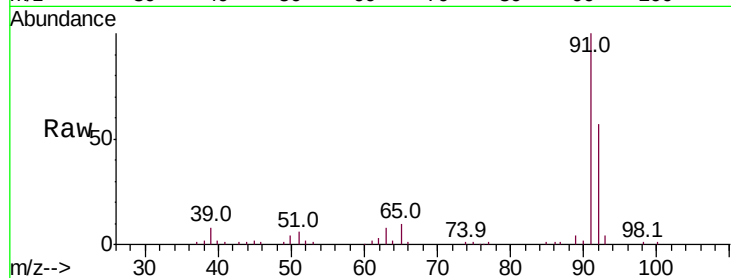
ClientSampleId :

Tot Ion: 91 Resp: 69191

Ion Ratio Lower Upper

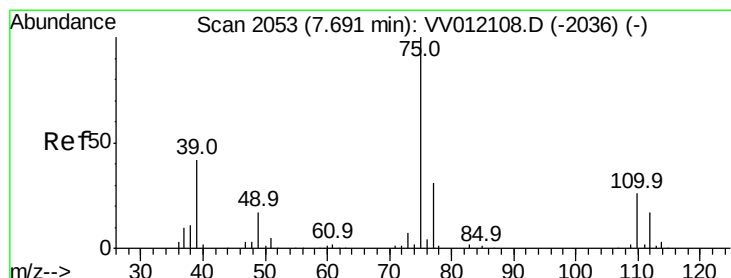
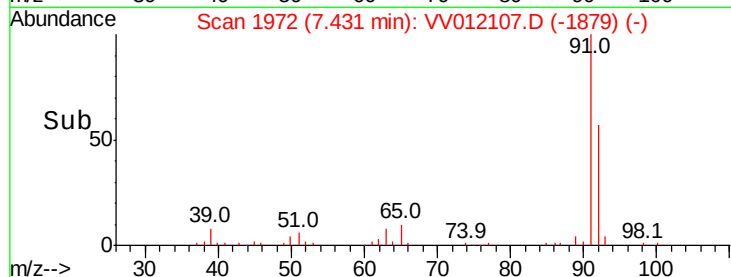
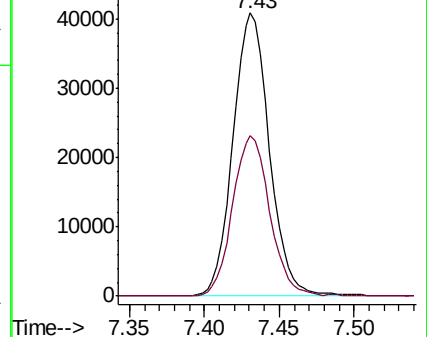
91 100

92 56.6 40.1 74.5



Abundance Ion 91.00 (90.70 to 91.70): VV012108.D (-1958) (-)

Ion 92.00 (91.70 to 92.70): VV012107.D (-1879) (-)



#44

trans-1,3-Dichloropropene

Concen: 9.595 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV012107.D

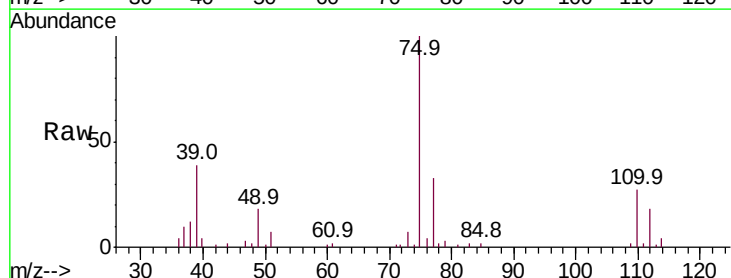
Acq: 06 Aug 2019 10:22

Tgt Ion: 75 Resp: 24445

Ion Ratio Lower Upper

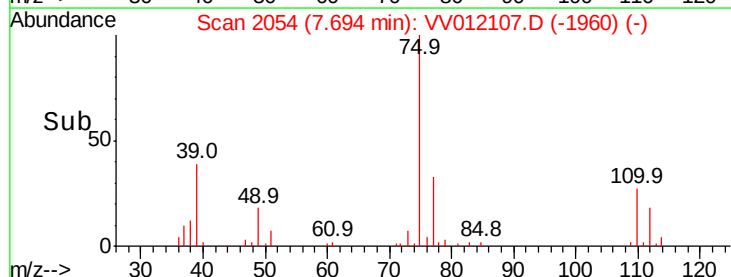
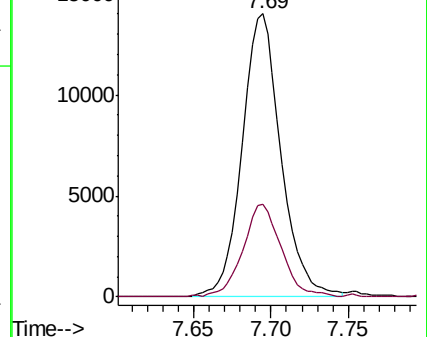
75 100

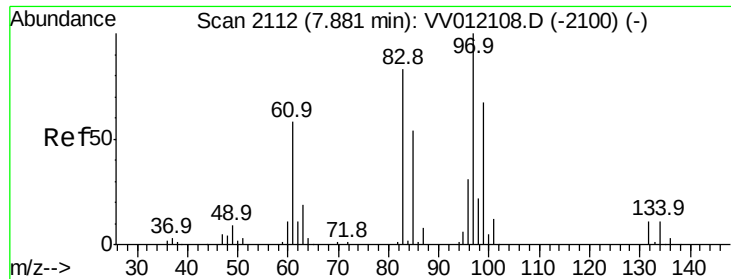
77 32.9 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VV012108.D (-2036) (-)

Ion 77.00 (76.70 to 77.70): VV012107.D (-1960) (-)



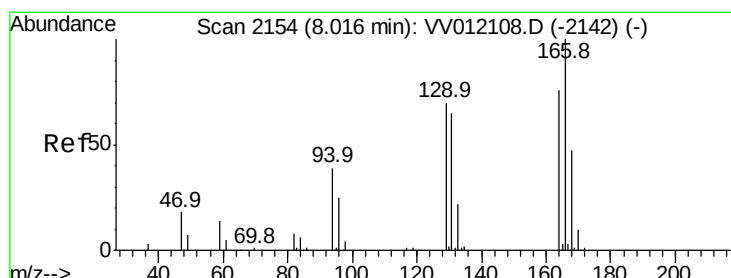
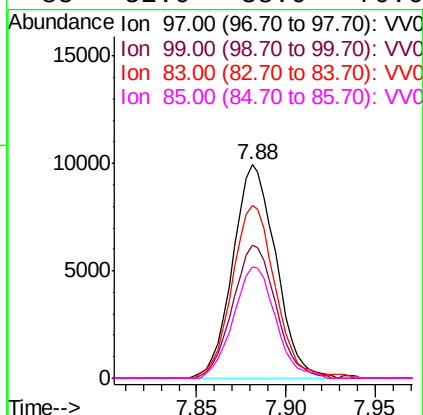
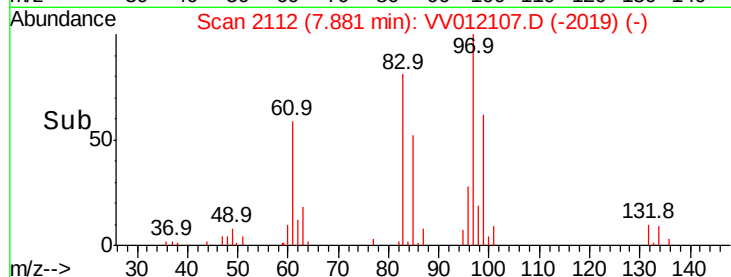
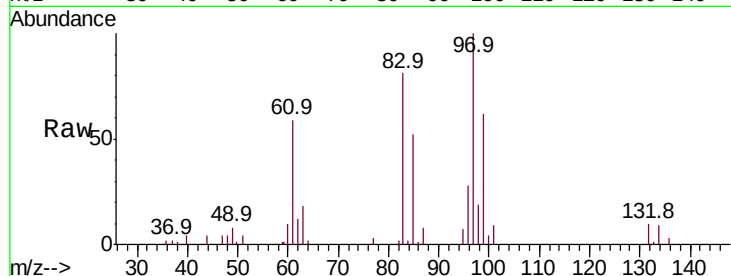


#45
1,1,2-Trichloroethane
Concen: 10.137 ug/L
RT: 7.88 min Scan# 2112
Delta R.T. -0.00 min
Lab File: VV012107.D
Acq: 06 Aug 2019 10:22

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 97 Resp: 16727

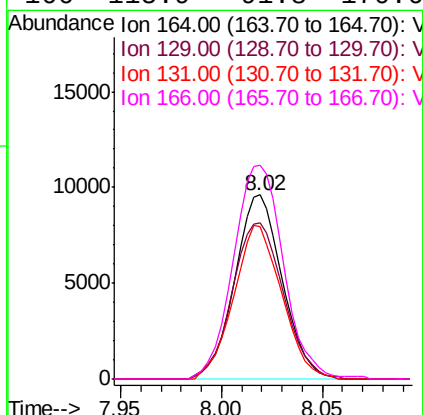
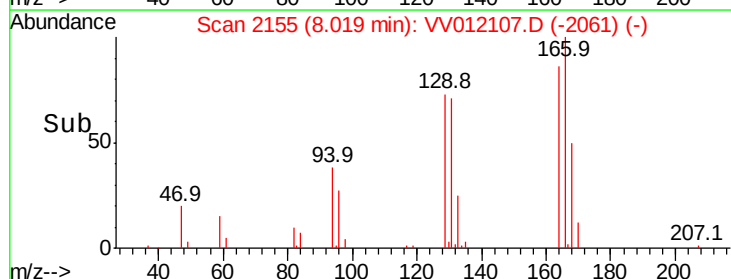
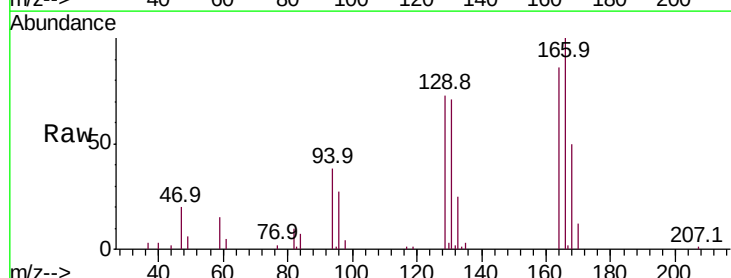
Ion	Ratio	Lower	Upper
97	100		
99	62.4	47.2	87.6
83	80.9	58.0	107.6
85	52.0	38.0	70.6

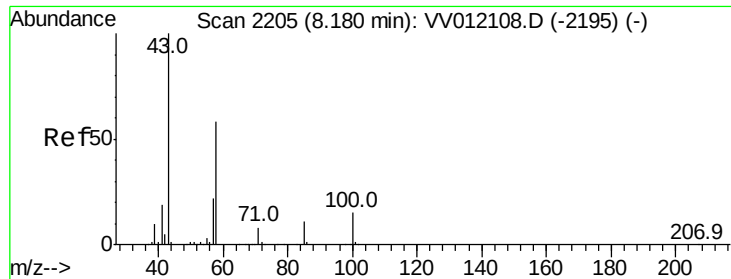


#46
Tetrachloroethene
Concen: 9.760 ug/L
RT: 8.02 min Scan# 2155
Delta R.T. 0.00 min
Lab File: VV012107.D
Acq: 06 Aug 2019 10:22

Tgt Ion: 164 Resp: 15863

Ion	Ratio	Lower	Upper
164	100		
129	84.9	64.3	119.5
131	82.4	60.1	111.7
166	115.9	91.8	170.6

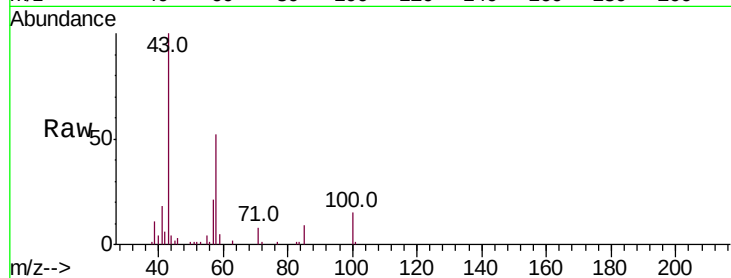




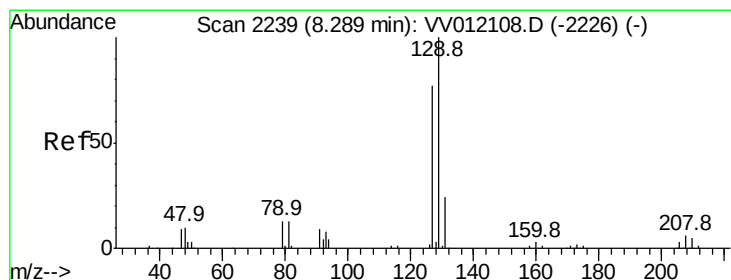
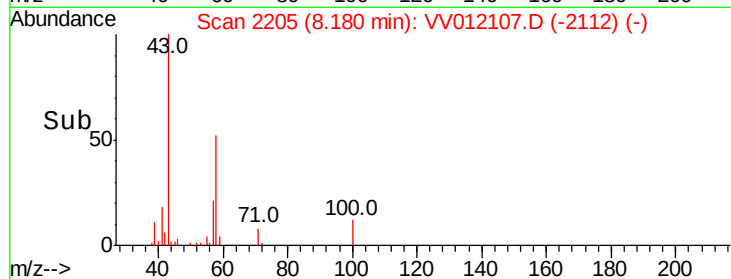
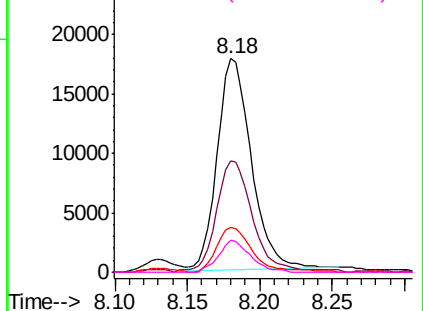
#48
2-Hexanone
Concen: 19.670 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. -0.00 min
Lab File: VV012107.D
Acq: 06 Aug 2019 10:22

Instrument :
MSVOA_V
ClientSampled :

Tot Ion:	43	Resp:	29217
Ion	Ratio	Lower	Upper
43	100		
58	55.3	45.6	68.4
57	21.5	17.0	25.6
100	14.0	11.5	17.3

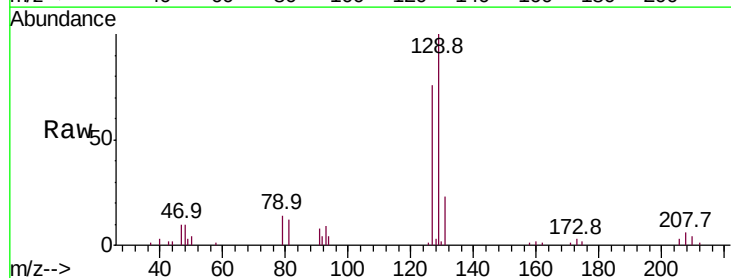


Abundance Ion 43.00 (42.70 to 43.70): VV012107.D (-2195) (-)
Ion 58.00 (57.70 to 58.70): VV012107.D (-2195) (-)
Ion 57.00 (56.70 to 57.70): VV012107.D (-2195) (-)
Ion 100.00 (99.70 to 100.70): VV012107.D (-2195) (-)

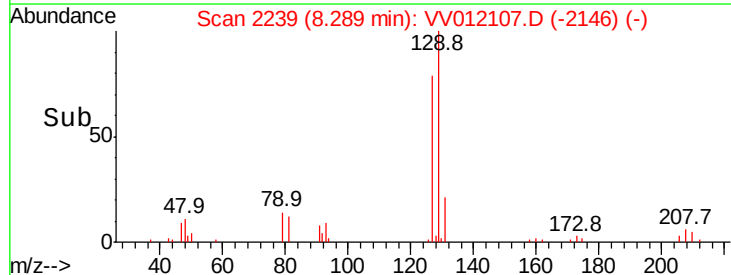
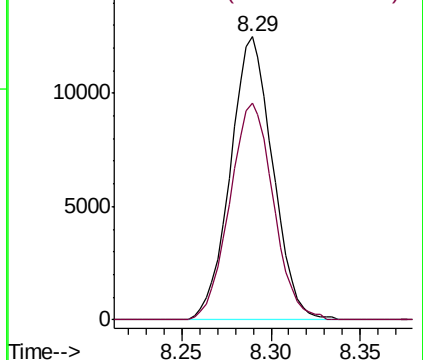


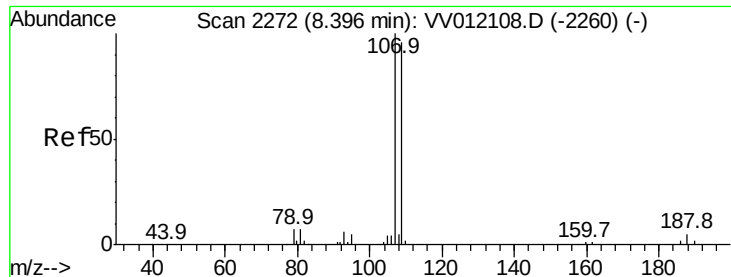
#49
Dibromochloromethane
Concen: 9.617 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV012107.D
Acq: 06 Aug 2019 10:22

Tgt Ion:	129	Resp:	20594
Ion	Ratio	Lower	Upper
129	100		
127	76.4	53.8	100.0



Abundance Ion 129.00 (128.70 to 129.70): VV012107.D (-2226) (-)
Ion 127.00 (126.70 to 127.70): VV012107.D (-2226) (-)

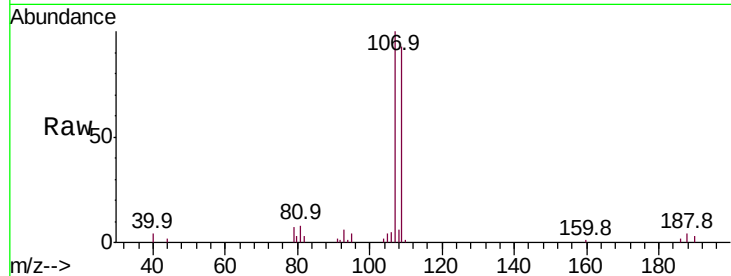




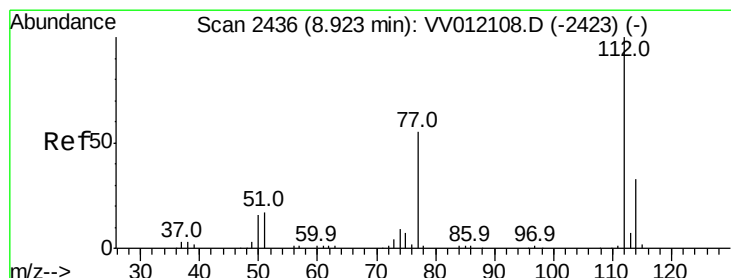
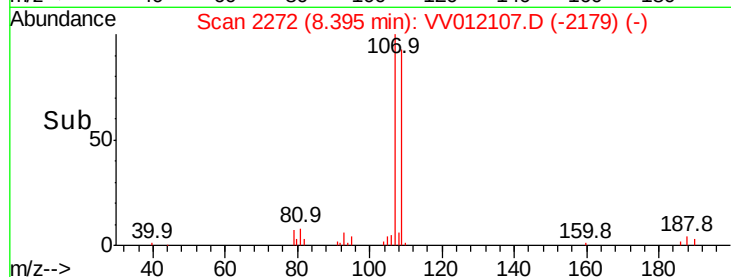
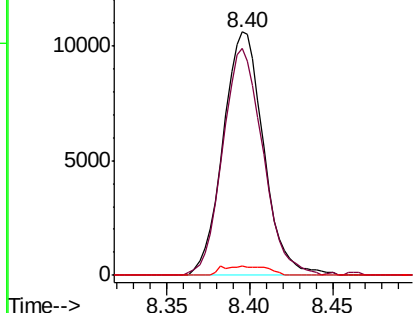
#50
1,2-Dibromoethane
Concen: 9.860 ug/L
RT: 8.40 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VV012107.D
Acq: 06 Aug 2019 10:22

Instrument :
MSVOA_V
ClientSampled :

Tot Ion:107 Resp: 17995
Ion Ratio Lower Upper
107 100
109 93.5 67.0 124.4
188 3.7 3.9 5.9#

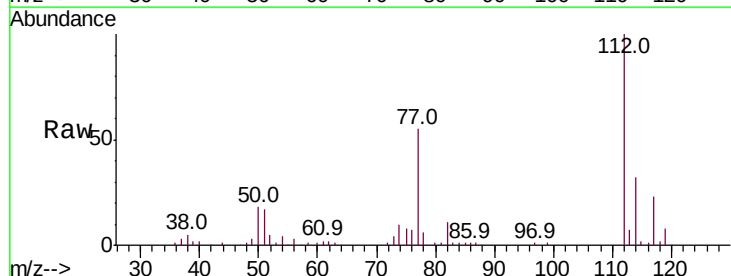


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

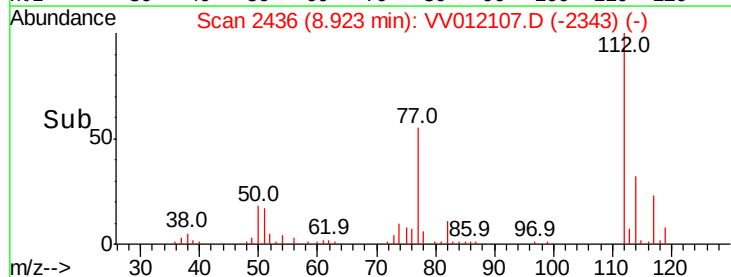
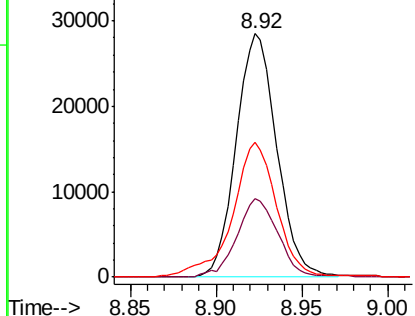


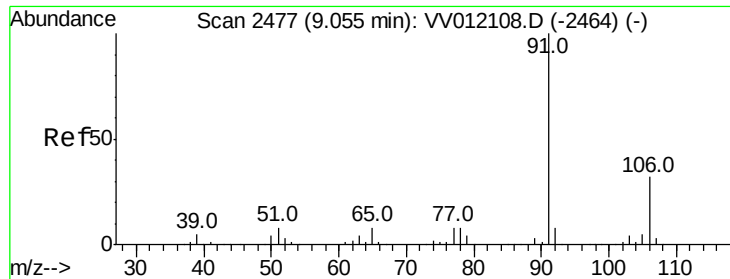
#51
Chlorobenzene
Concen: 9.972 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. -0.00 min
Lab File: VV012107.D
Acq: 06 Aug 2019 10:22

Tgt Ion:112 Resp: 46885
Ion Ratio Lower Upper
112 100
114 32.4 22.8 42.4
77 55.4 44.7 67.1



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: 9.688 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV012107.D

Acq: 06 Aug 2019 10:22

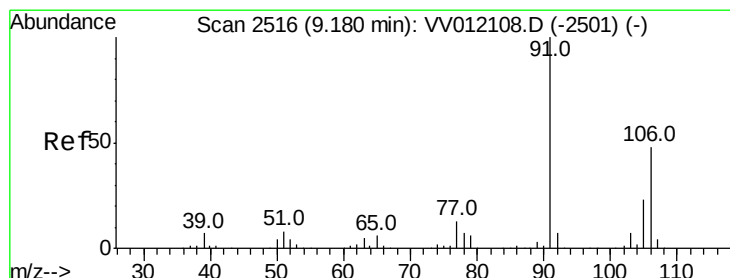
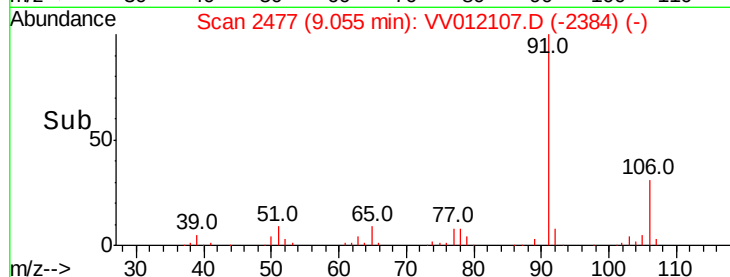
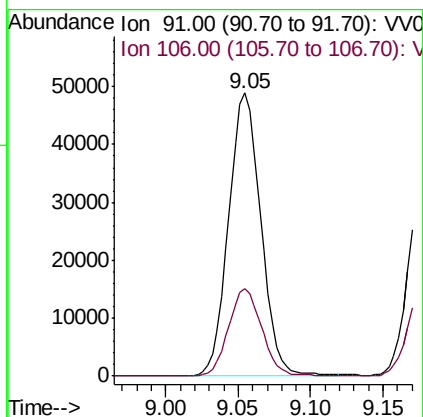
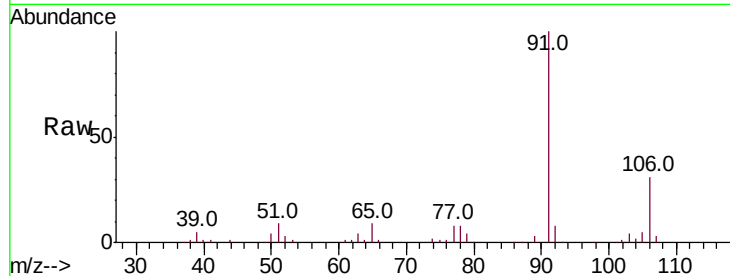
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 75805

Ion Ratio Lower Upper

91 100

106 31.0 22.3 41.5



#53

m,p-Xylene

Concen: 9.627 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV012107.D

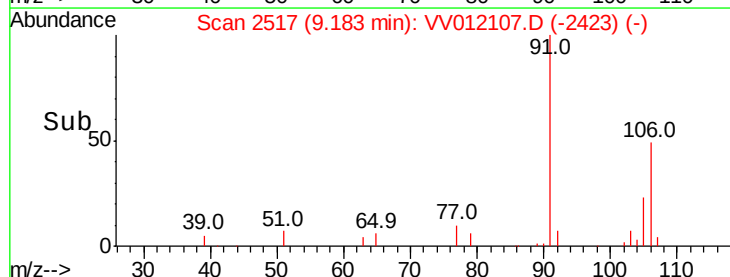
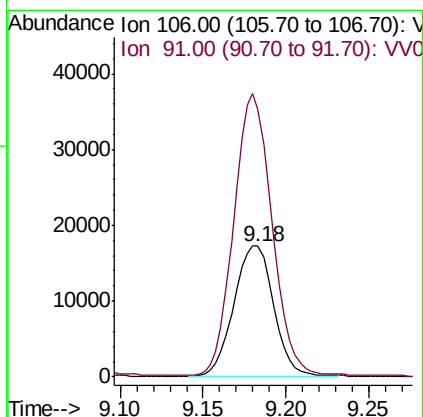
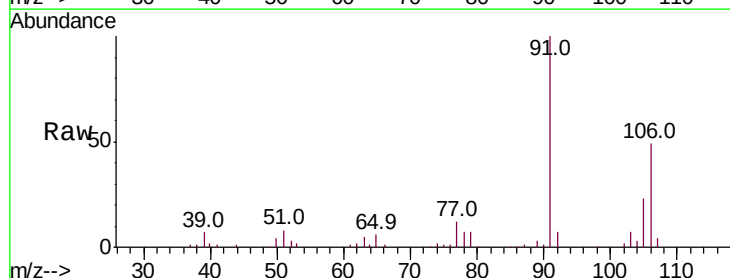
Acq: 06 Aug 2019 10:22

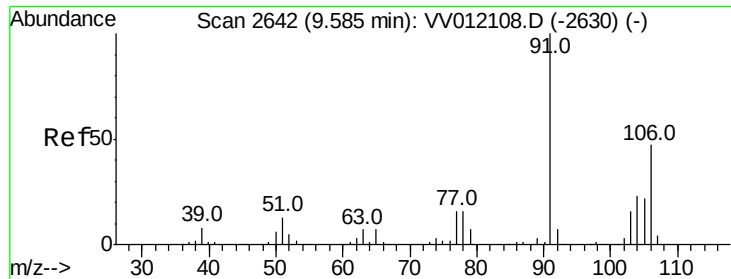
Tgt Ion: 106 Resp: 29059

Ion Ratio Lower Upper

106 100

91 205.3 146.7 272.5

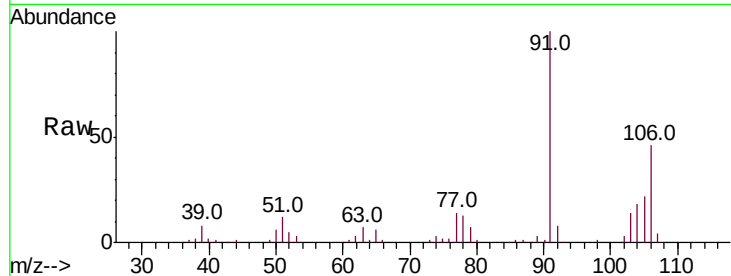




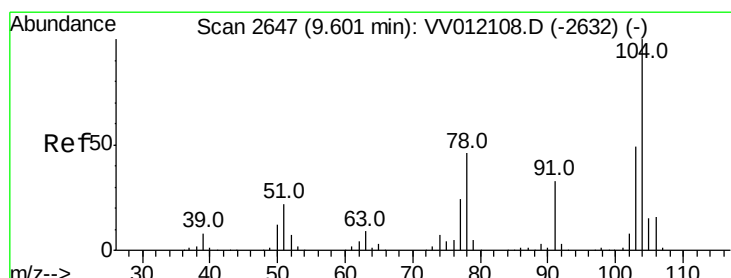
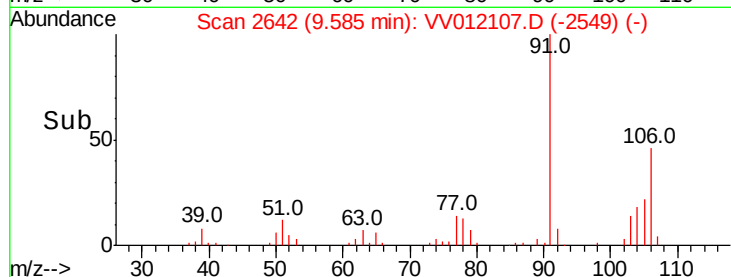
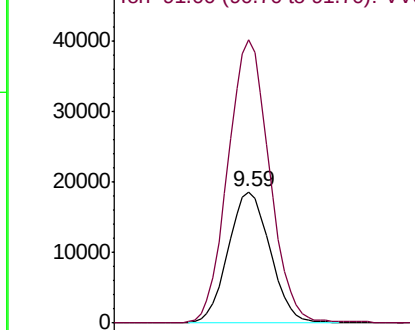
#54
o-Xylene
Concen: 9.761 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. -0.00 min
Lab File: VV012107.D
Acq: 06 Aug 2019 10:22

Instrument :
MSVOA_V
ClientSampled :

Tot Ion:106 Resp: 29238
Ion Ratio Lower Upper
106 100
91 215.4 150.4 279.2

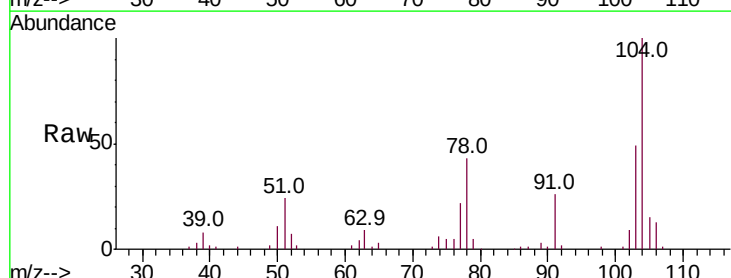


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

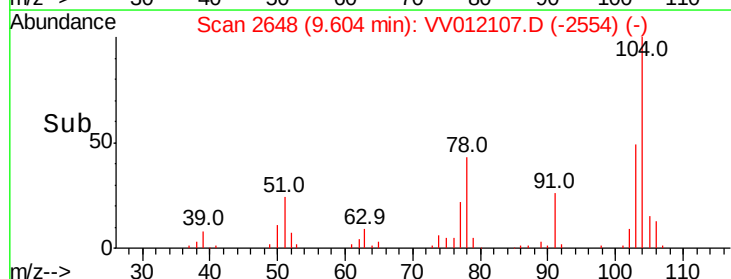
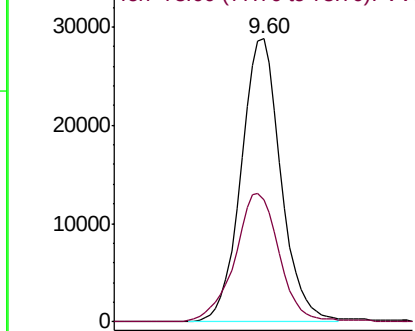


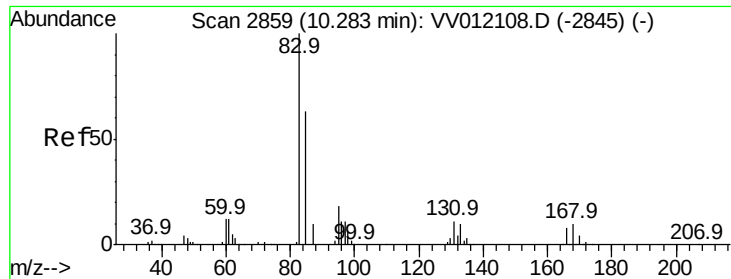
#55
Styrene
Concen: 9.521 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. 0.00 min
Lab File: VV012107.D
Acq: 06 Aug 2019 10:22

Tgt Ion:104 Resp: 48044
Ion Ratio Lower Upper
104 100
78 43.3 32.0 59.4



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





#57

1,1,2,2-Tetrachloroethane

Concen: 9.846 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV012107.D

Acq: 06 Aug 2019 10:22

Instrument :

MSVOA_V

ClientSampleId :

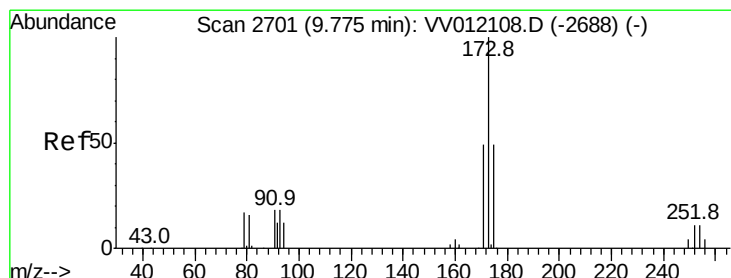
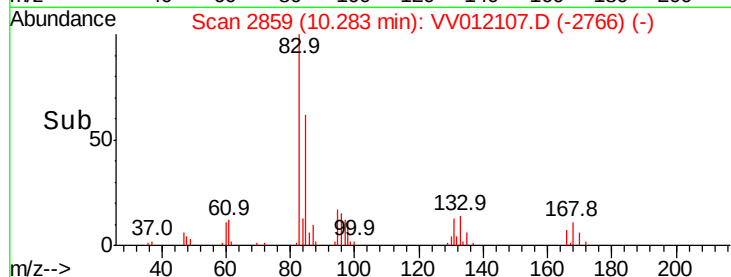
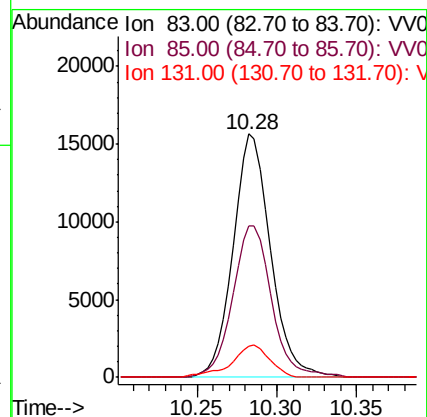
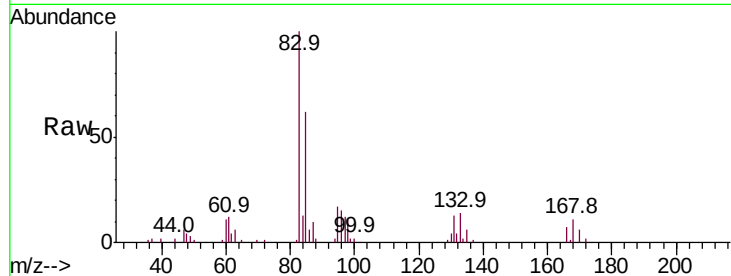
Tot Ion: 83 Resp: 24986

Ion Ratio Lower Upper

83 100

85 62.4 44.6 82.8

131 16.6 9.3 13.9#



#59

Bromoform

Concen: 9.627 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VV012107.D

Acq: 06 Aug 2019 10:22

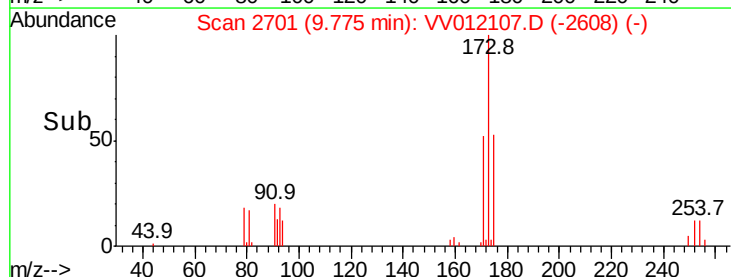
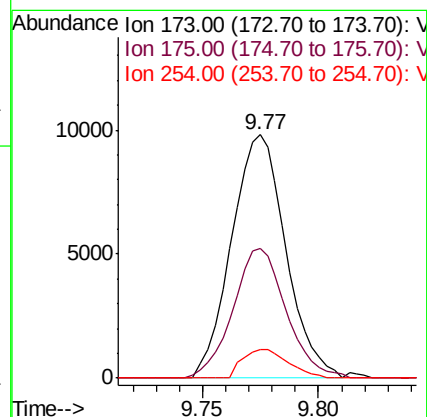
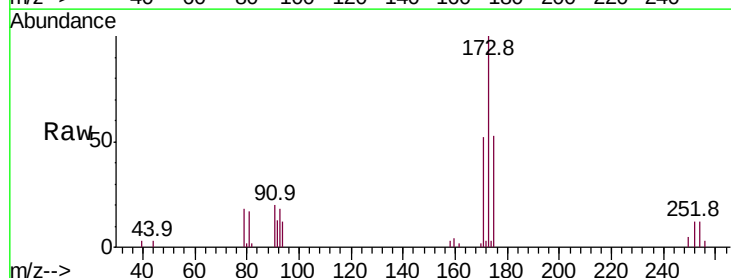
Tgt Ion:173 Resp: 15902

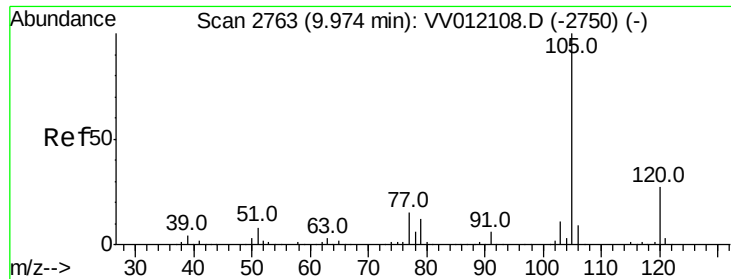
Ion Ratio Lower Upper

173 100

175 52.3 38.3 57.5

254 9.9 8.9 13.3





#60

Isopropylbenzene

Concen: 10.227 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV012107.D

Acq: 06 Aug 2019 10:22

Instrument :
MSVOA_V
ClientSampleId :

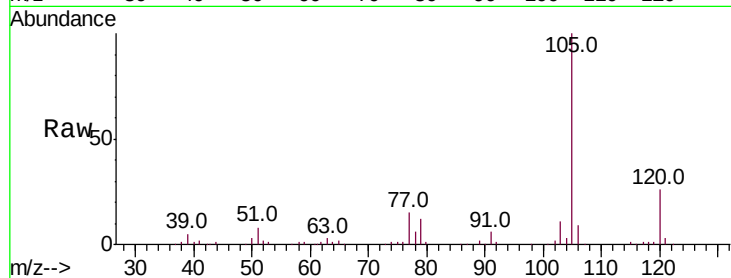
Tot Ion:105 Resp: 78842

Ion Ratio Lower Upper

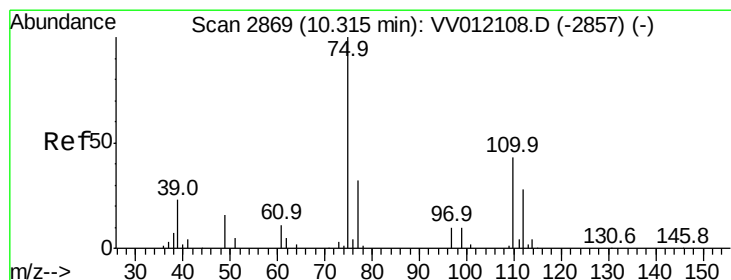
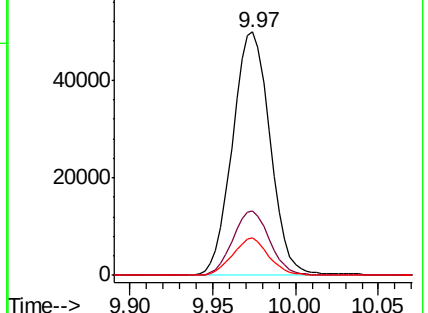
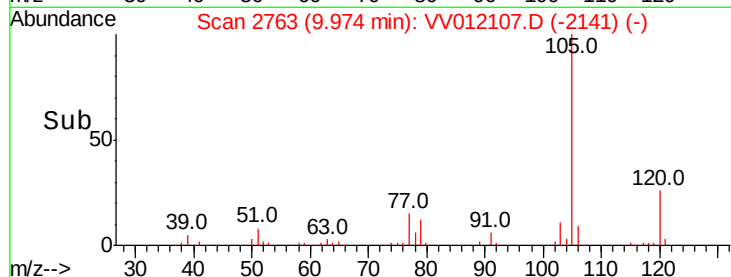
105 100

120 26.0 21.4 32.0

77 14.6 11.6 17.4



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



#61

1,2,3-Trichloropropane

Concen: 10.370 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV012107.D

Acq: 06 Aug 2019 10:22

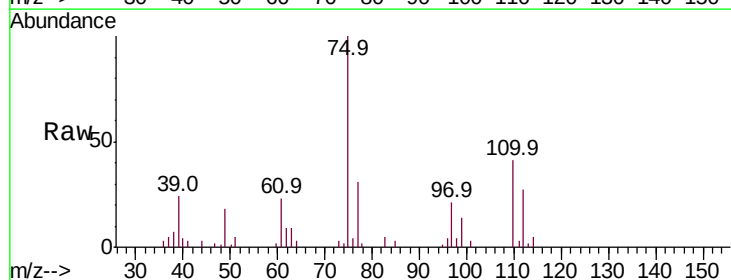
Tgt Ion: 75 Resp: 19830

Ion Ratio Lower Upper

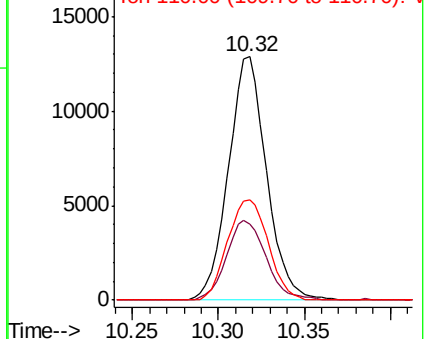
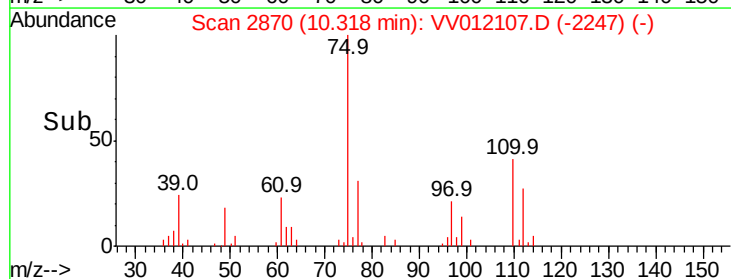
75 100

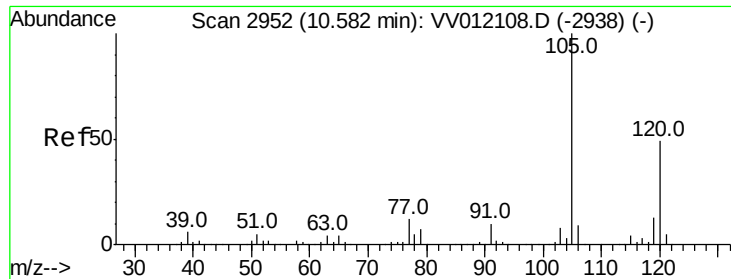
77 33.9 25.7 38.5

110 43.9 34.2 51.4



Abundance Ion 75.00 (74.70 to 75.70): VV0
Ion 77.00 (76.70 to 77.70): VV0
Ion 110.00 (109.70 to 110.70): V

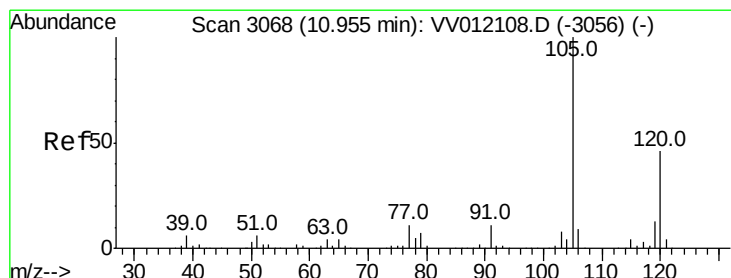
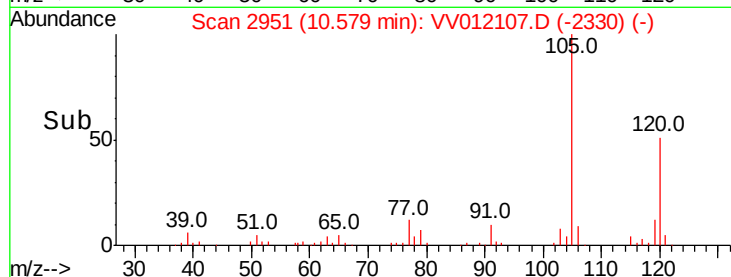
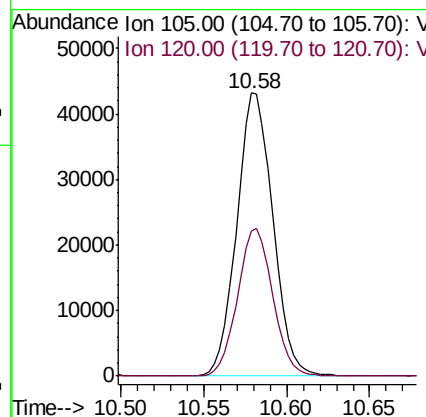
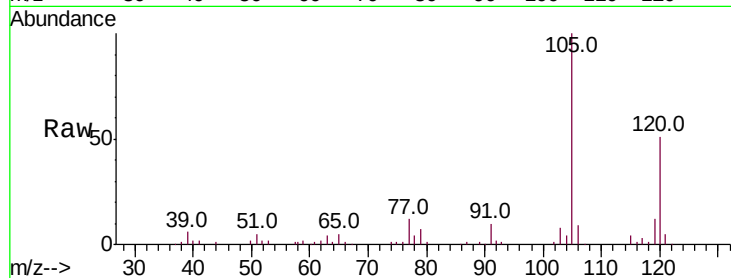




#62
 1,3,5-Trimethylbenzene
 Concen: 9.911 ug/L
 RT: 10.58 min Scan# 2951
 Delta R.T. -0.00 min
 Lab File: VV012107.D
 Acq: 06 Aug 2019 10:22

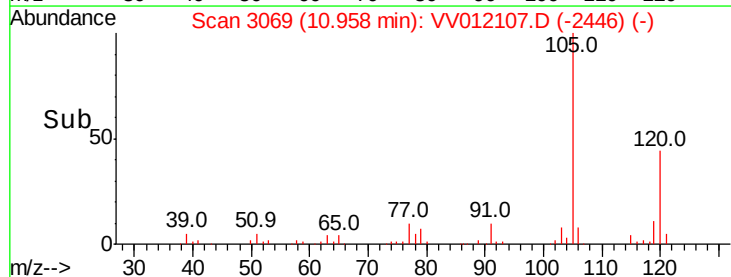
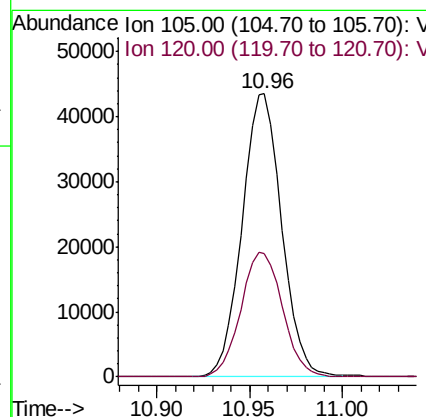
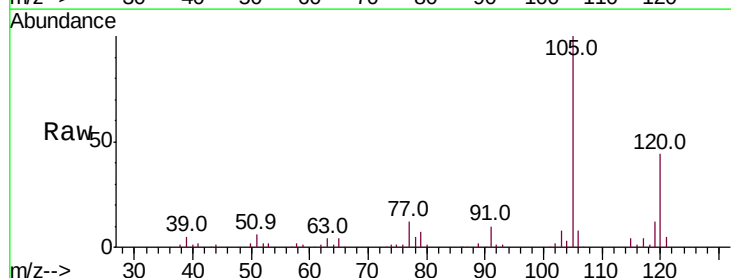
Instrument :
 MSVOA_V
 ClientSampled :

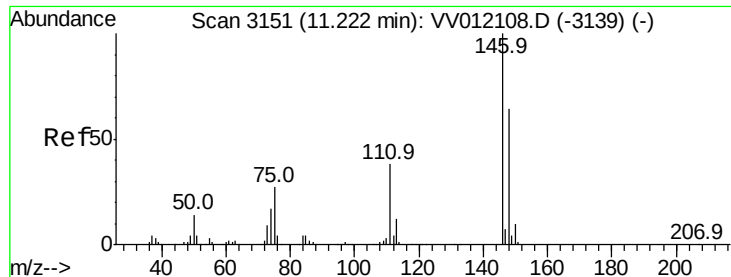
Tot Ion:105 Resp: 65463
 Ion Ratio Lower Upper
 105 100
 120 51.0 39.2 58.8



#63
 1,2,4-Trimethylbenzene
 Concen: 9.750 ug/L
 RT: 10.96 min Scan# 3069
 Delta R.T. 0.00 min
 Lab File: VV012107.D
 Acq: 06 Aug 2019 10:22

Tgt Ion:105 Resp: 64709
 Ion Ratio Lower Upper
 105 100
 120 46.3 36.7 55.1





#64

1,3-Dichlorobenzene

Concen: 9.792 ug/L

RT: 11.22 min Scan# 3152

Delta R.T. 0.00 min

Lab File: VV012107.D

Acq: 06 Aug 2019 10:22

Instrument :

MSVOA_V

ClientSampleId :

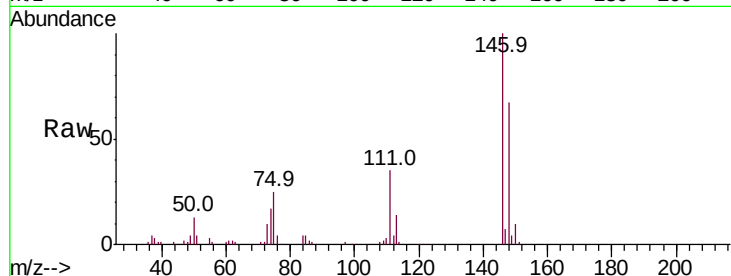
Tot Ion:146 Resp: 38088

Ion Ratio Lower Upper

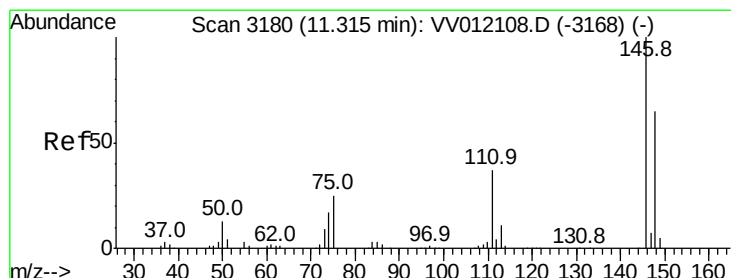
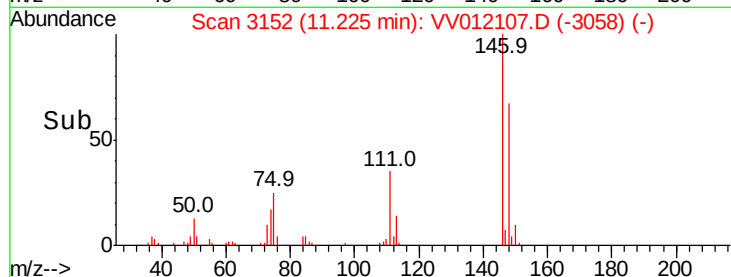
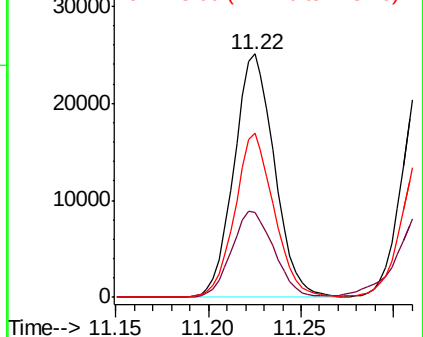
146 100

111 34.9 26.8 49.8

148 67.3 44.6 82.8



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

1,4-Dichlorobenzene

Concen: 9.785 ug/L

RT: 11.31 min Scan# 3180

Delta R.T. -0.00 min

Lab File: VV012107.D

Acq: 06 Aug 2019 10:22

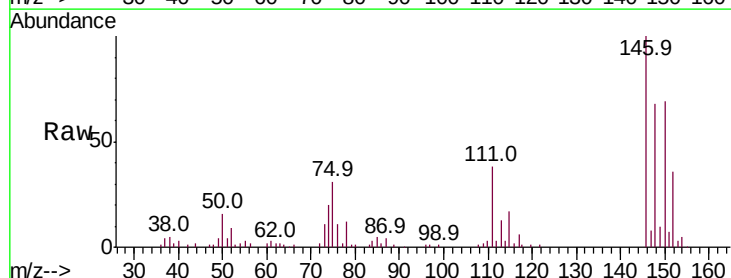
Tgt Ion:146 Resp: 38471

Ion Ratio Lower Upper

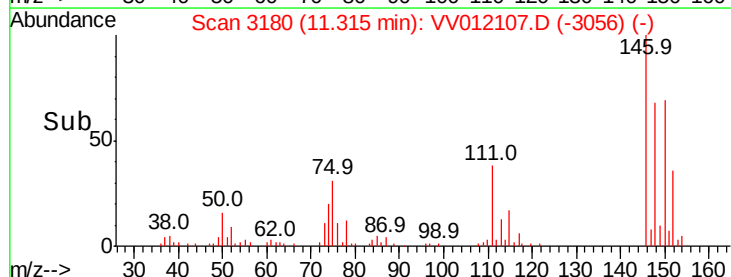
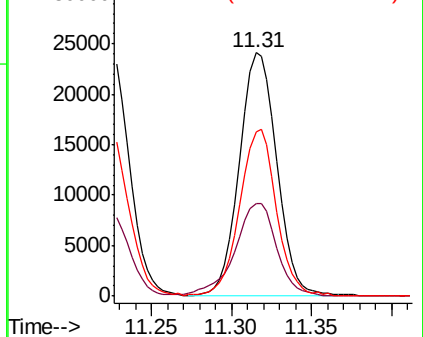
146 100

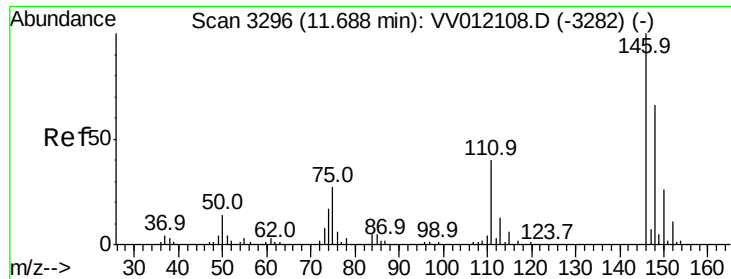
111 38.1 25.8 47.8

148 67.6 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

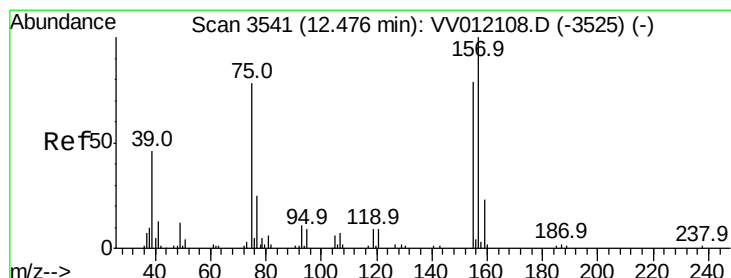
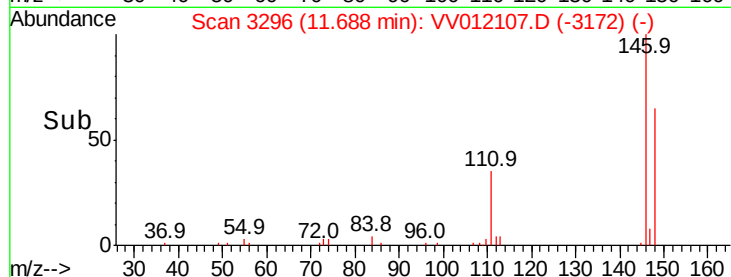
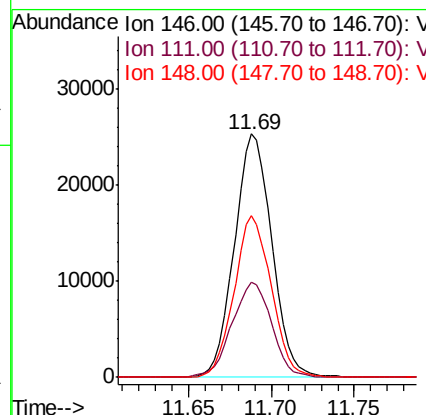
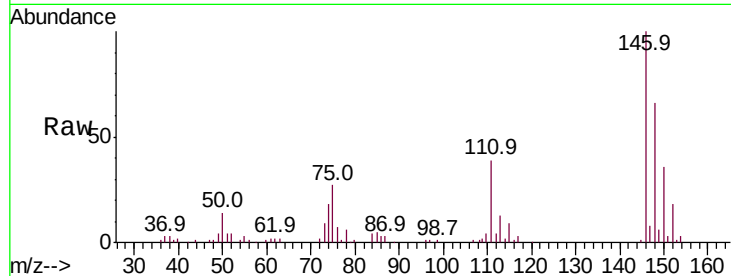




#67
 1,2-Dichlorobenzene
 Concen: 10.054 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. -0.00 min
 Lab File: VV012107.D
 Acq: 06 Aug 2019 10:22

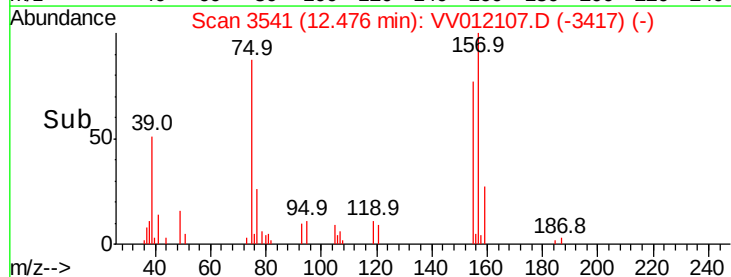
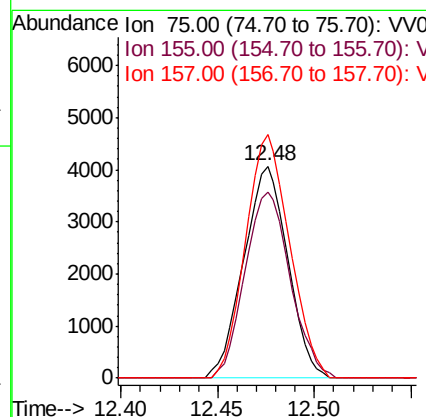
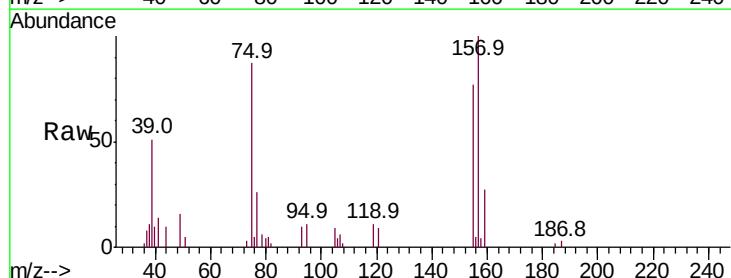
Instrument :
 MSVOA_V
 ClientSampleId :

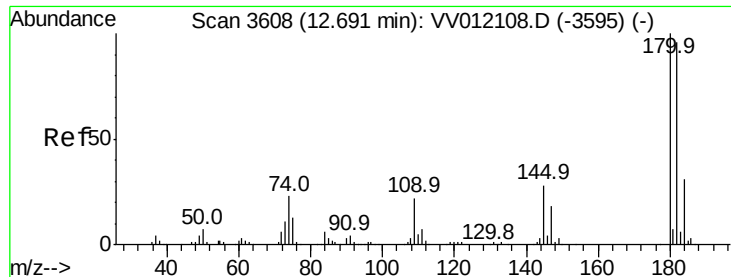
Tot Ion	Ratio	Lower	Upper
146	100		
111	39.1	32.2	48.2
148	66.2	53.2	79.8



#68
 1,2-Dibromo-3-chloropropane
 Concen: 10.239 ug/L
 RT: 12.48 min Scan# 3541
 Delta R.T. -0.00 min
 Lab File: VV012107.D
 Acq: 06 Aug 2019 10:22

Tgt Ion	Ratio	Lower	Upper
75	100		
155	88.0	81.2	121.8
157	114.9	102.3	153.5

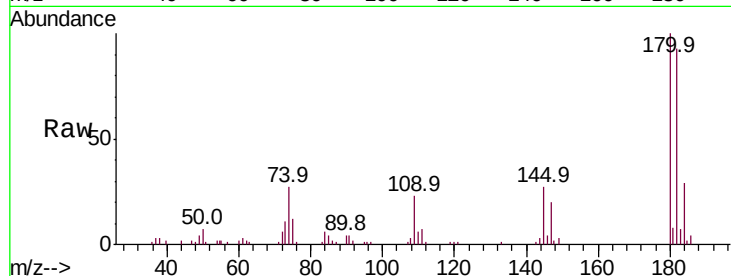




#69
 1,3,5-Trichlorobenzene
 Concen: 9.721 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. -0.00 min
 Lab File: VV012107.D
 Acq: 06 Aug 2019 10:22

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:	180	Resp:	30652
Ion	Ratio	Lower	Upper
180	100		
182	96.9	76.5	114.7
184	30.2	24.6	36.8
145	28.6	22.5	33.7



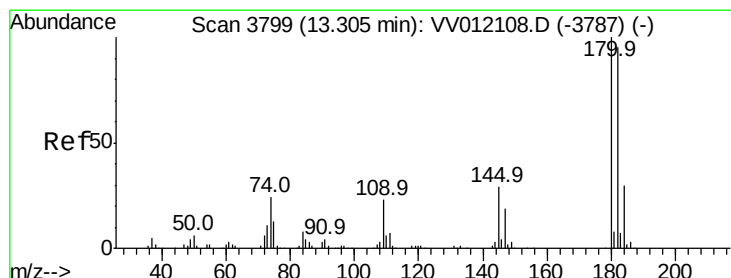
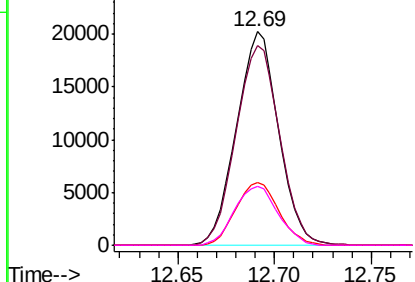
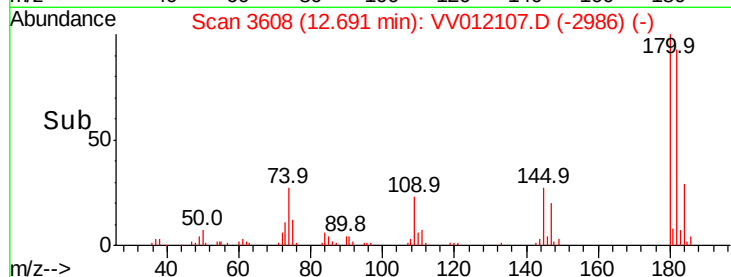
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

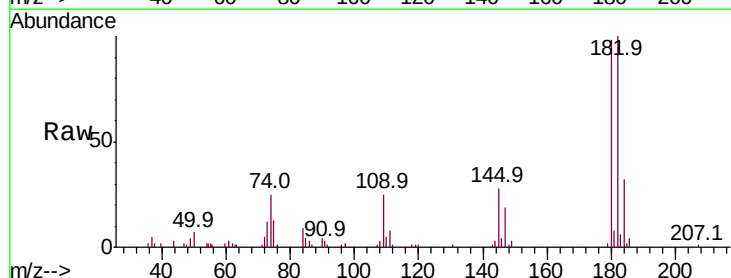
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#70
 1,2,4-trichlorobenzene
 Concen: 8.588 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV012107.D
 Acq: 06 Aug 2019 10:22

Tgt Ion:	180	Resp:	23480
Ion	Ratio	Lower	Upper
180	100		
182	97.6	76.5	114.7
145	27.6	23.3	34.9

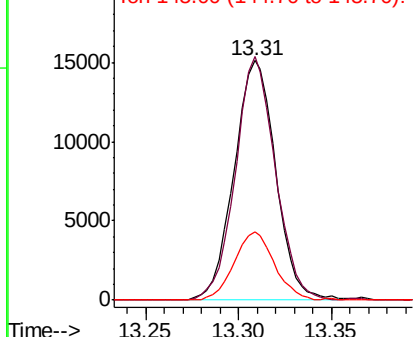
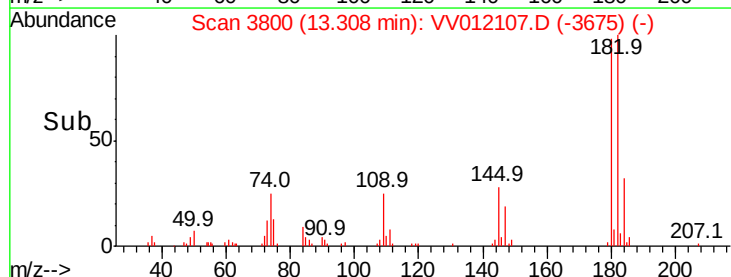


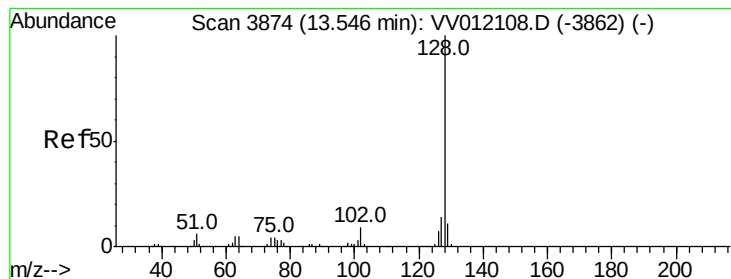
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#71

Naphthalene

Concen: 7.965 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.01 min

Lab File: VV012107.D

Acq: 06 Aug 2019 10:22

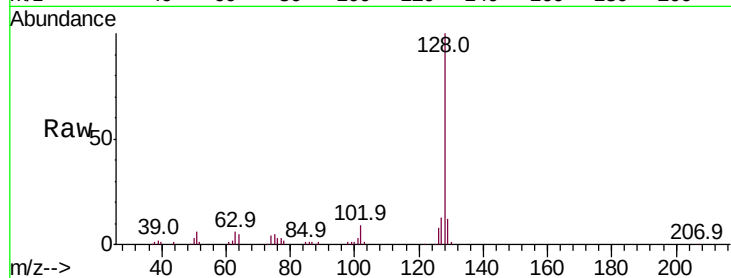
Instrument :

MSVOA_V

ClientSampleId :

Tot Ion:128 Resp: 55191

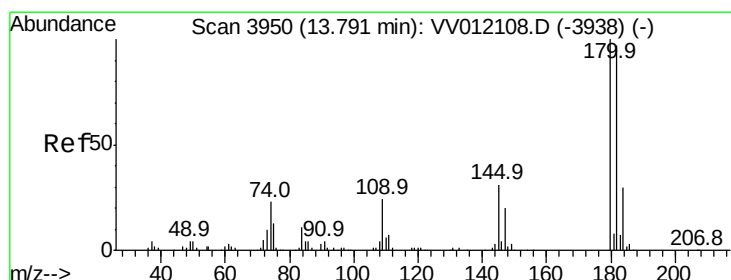
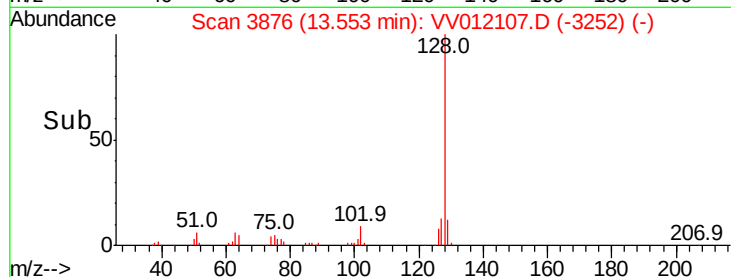
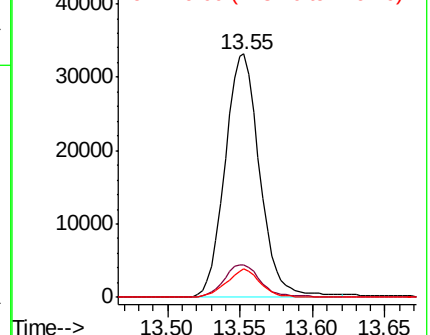
Ion	Ratio	Lower	Upper
128	100		
127	14.2	10.6	15.8
129	11.2	8.6	12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#72

1,2,3-Trichlorobenzene

Concen: 8.858 ug/L

RT: 13.79 min Scan# 3951

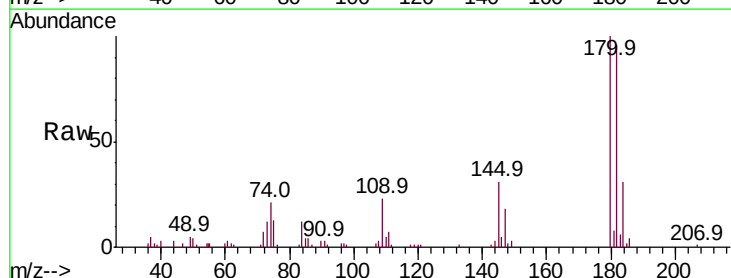
Delta R.T. 0.00 min

Lab File: VV012107.D

Acq: 06 Aug 2019 10:22

Tgt Ion:180 Resp: 24370

Ion	Ratio	Lower	Upper
180	100		
182	92.3	77.2	115.8
145	32.2	24.6	36.8



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

