

Data File : VV011177.D
Acq On : 31 May 2019 13:11
Operator : SY/MD
Sample : VSTDCCC025EC
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02581

Quant Time: May 31 23:21:35 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis
QLast Update : Fri May 31 23:16:38 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	392495	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	372494	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	169031	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	117479	22.12	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	88.48%
7) Chloroethane-d5	1.56	69	94279	23.09	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	92.36%
10) 1,1-Dichloroethene-d2	2.11	63	255815	23.47	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	93.88%
20) 2-Butanone-d5	3.93	46	103296	53.22	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	106.44%
24) Chloroform-d	4.39	84	174206	18.16	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	72.64%
26) 1,2-Dichloroethane-d4	5.07	65	149370	23.89	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	95.56%
29) Benzene-d6	5.09	84	467611	23.11	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	92.44%
33) 1,2-Dichloropropane-d6	6.11	67	148975	22.98	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	91.92%
37) Toluene-d8	7.35	98	454562	23.82	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	95.28%
38) trans-1,3-Dichloropropene-	7.66	79	69923	23.84	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	95.36%
39) 2-Hexanone-d5	8.13	63	69402	47.11	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	94.22%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	141432	24.21	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	96.84%
61) 1,2-Dichlorobenzene-d4	11.67	152	151296	23.92	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	95.68%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.13	85	158330	24.981 ug/L	100
3) Chloromethane	1.24	50	146681	23.670 ug/L	98
5) Vinyl chloride	1.31	62	151674	24.550 ug/L	99
6) Bromomethane	1.51	94	77567	23.290 ug/L	98
8) Chloroethane	1.58	64	88153	24.662 ug/L	100
9) Trichlorofluoromethane	1.75	101	221950	24.969 ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	2.12	101	111510	23.422 ug/L	99
12) 1,1-Dichloroethene	2.12	96	104087	23.601 ug/L	98
13) Acetone	2.18	43	115711	51.245 ug/L	99
14) Carbon disulfide	2.30	76	322765	22.788 ug/L	99
15) Methyl Acetate	2.45	43	76755	22.591 ug/L	96
16) Methylene chloride	2.52	84	130293	21.783 ug/L	99
17) Methyl tert-butyl Ether	2.80	73	319759	20.914 ug/L	99
18) trans-1,2-Dichloroethene	2.78	96	122010	22.712 ug/L	97
19) 1,1-Dichloroethane	3.22	63	240522	23.140 ug/L	98
21) 2-Butanone	4.01	43	125858	47.511 ug/L	100
22) cis-1,2-Dichloroethene	3.95	96	136162	22.693 ug/L	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	59055	22.369	ug/L	91
25) Chloroform	4.41	83	310800	27.987	ug/L	100
27) 1,2-Dichloroethane	5.17	62	179689	23.107	ug/L	98
30) Cyclohexane	4.71	56	220462	22.133	ug/L	99
31) 1,1,1-Trichloroethane	4.65	97	200423	23.494	ug/L	99
32) Carbon tetrachloride	4.86	117	165112	22.830	ug/L	100
34) Benzene	5.14	78	502640	22.763	ug/L	100
35) Trichloroethene	5.95	95	131749	22.754	ug/L	98
36) Methylcyclohexane	6.17	83	233990	23.881	ug/L	99
40) 1,2-Dichloropropane	6.22	63	132667	22.856	ug/L	99
41) Bromodichloromethane	6.55	83	168623	22.303	ug/L	100
42) cis-1,3-Dichloropropene	7.07	75	208474	22.591	ug/L	97
43) 4-Methyl-2-pentanone	7.27	43	238657	45.259	ug/L	99
44) Toluene	7.43	91	572519	23.752	ug/L	98
45) trans-1,3-Dichloropropene	7.69	75	186251	23.646	ug/L	100
46) 1,1,2-Trichloroethane	7.88	97	104320	23.041	ug/L	99
47) Tetrachloroethene	8.02	164	103164	24.044	ug/L	97
49) 2-Hexanone	8.18	43	171771	45.211	ug/L	98
50) Dibromochloromethane	8.29	129	116297	22.730	ug/L	99
51) 1,2-Dibromoethane	8.39	107	102876	23.428	ug/L	99
52) Chlorobenzene	8.92	112	352851	22.869	ug/L	99
53) Ethylbenzene	9.05	91	648487	23.447	ug/L	99
54) m,p-Xylene	9.18	106	228163	22.179	ug/L	98
55) o-xylene	9.59	106	228747	22.609	ug/L	97
56) Styrene	9.60	104	385604	22.690	ug/L	96
57) Isopropylbenzene	9.97	105	623495	23.079	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.29	83	138589	22.526	ug/L	100
59) 1,2,3-Trichloropropane	10.32	75	106403	22.872	ug/L	99
62) Bromoform	9.77	173	63359	24.044	ug/L	98
63) 1,3-Dichlorobenzene	11.22	146	255682	23.351	ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	255676	23.011	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	240428	23.192	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	21473	21.348	ug/L	99
67) 1,3,5-Trichlorobenzene	12.69	180	187713	22.935	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	148955	22.679	ug/L	99
69) Naphthalene	13.55	128	317723	23.532	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	139173	22.848	ug/L	99

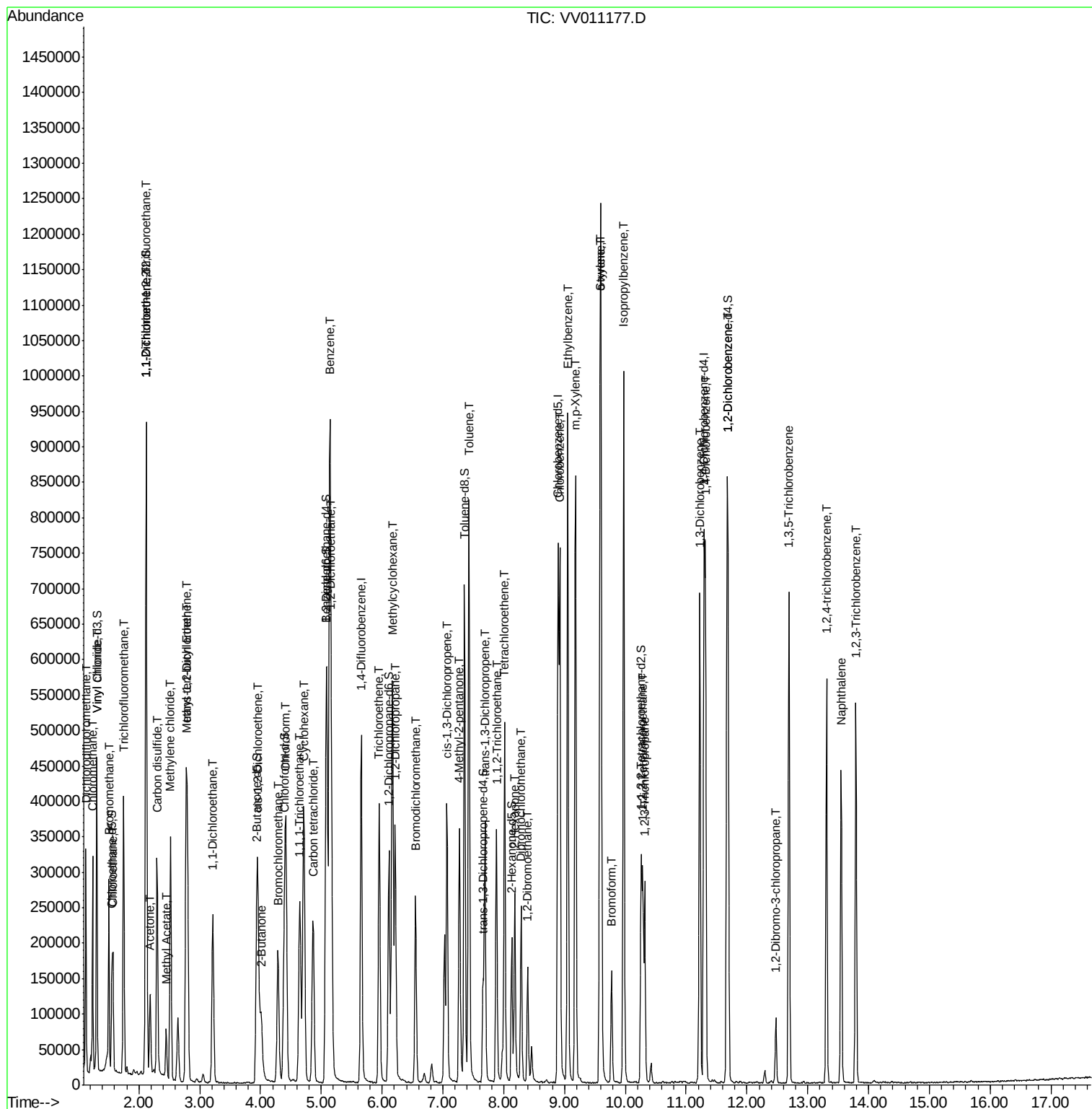
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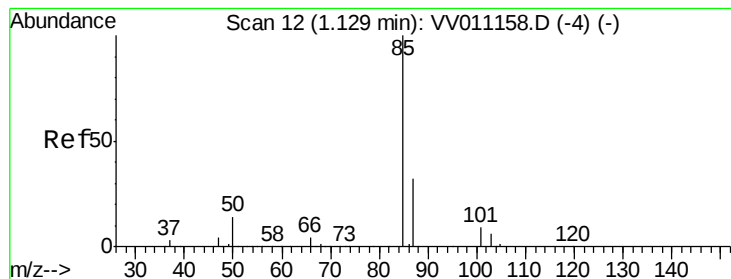
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#2

Dichlorodifluoromethane

Concen: 24.981 ug/L

RT: 1.13 min Scan# 12

Delta R.T. -0.00 min

Lab File: VV011177.D

Acq: 31 May 2019 13:11

Instrument :

MSVOA_V

ClientSampleId :

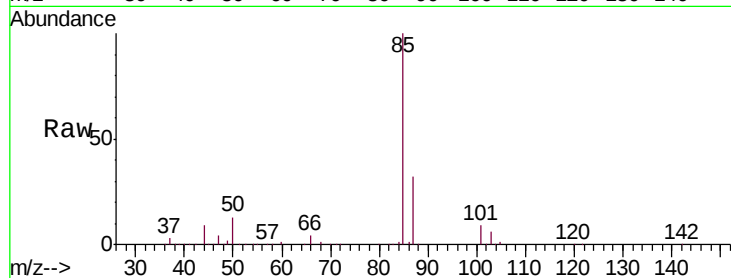
VSTD02581

Tgt Ion: 85 Resp: 158330

Ion Ratio Lower Upper

85 100

87 32.4 22.8 42.4



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0

200000

150000

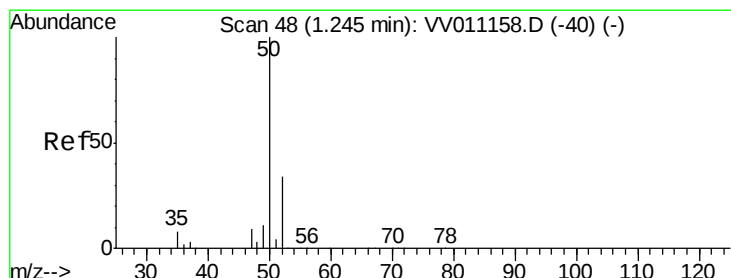
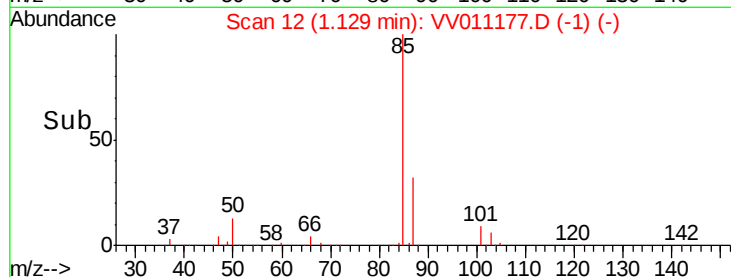
100000

50000

0

1.10 1.15

Time-->



#3

Chloromethane

Concen: 23.670 ug/L

RT: 1.24 min Scan# 46

Delta R.T. -0.01 min

Lab File: VV011177.D

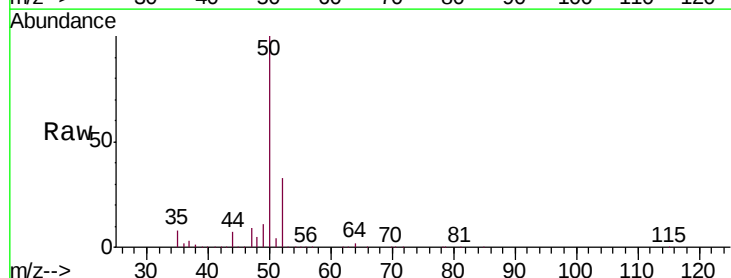
Acq: 31 May 2019 13:11

Tgt Ion: 50 Resp: 146681

Ion Ratio Lower Upper

50 100

52 33.2 22.5 41.9



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0

200000

150000

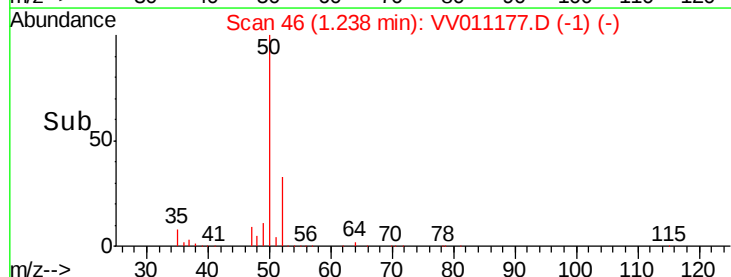
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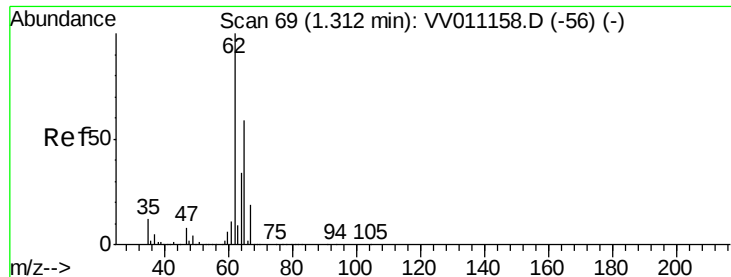
50000

0

1.15 1.20 1.25 1.30

Time-->





#5

Vinyl chloride

Concen: 24.550 ug/L

RT: 1.31 min Scan# 68

Delta R.T. -0.00 min

Lab File: VV011177.D

Acq: 31 May 2019 13:11

Instrument :

MSVOA_V

ClientSampleId :

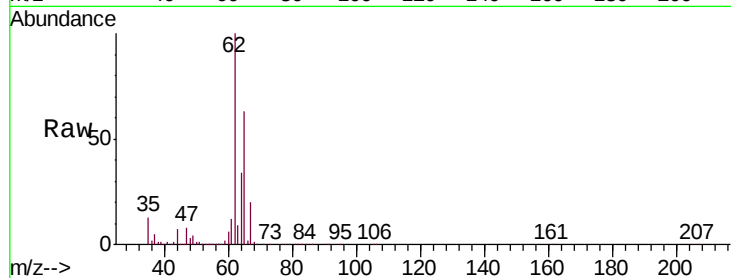
VSTD02581

Tgt Ion: 62 Resp: 151674

Ion Ratio Lower Upper

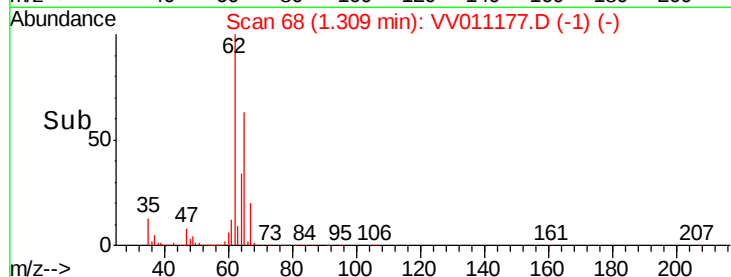
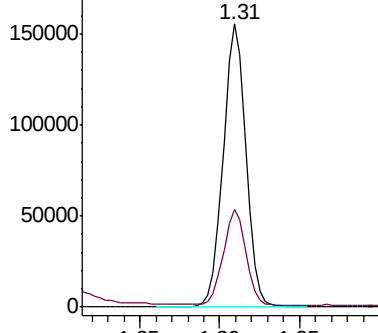
62 100

64 34.4 23.7 44.1

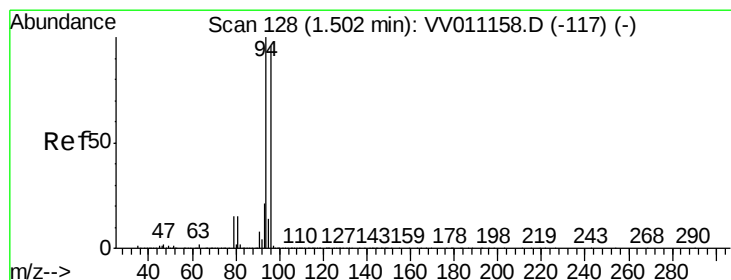


Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



Time-->



#6

Bromomethane

Concen: 23.290 ug/L

RT: 1.51 min Scan# 130

Delta R.T. 0.01 min

Lab File: VV011177.D

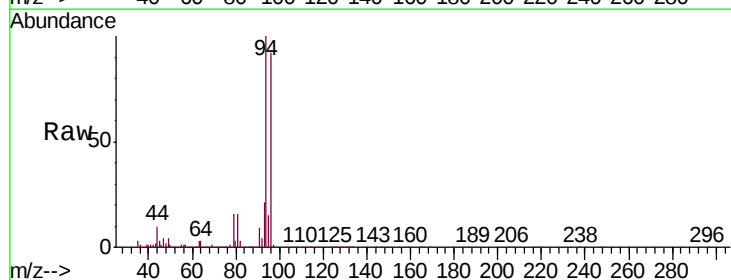
Acq: 31 May 2019 13:11

Tgt Ion: 94 Resp: 77567

Ion Ratio Lower Upper

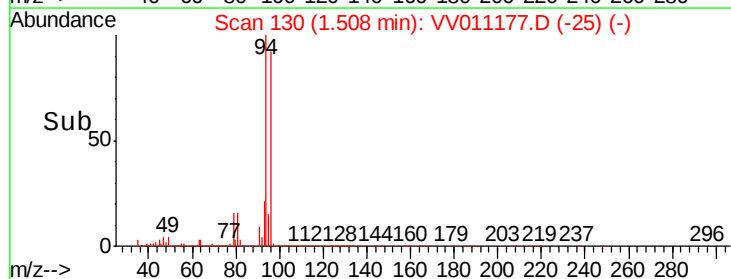
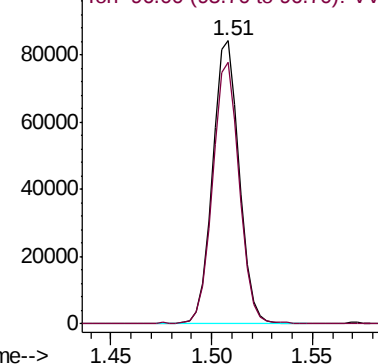
94 100

96 92.2 9.4 179.5

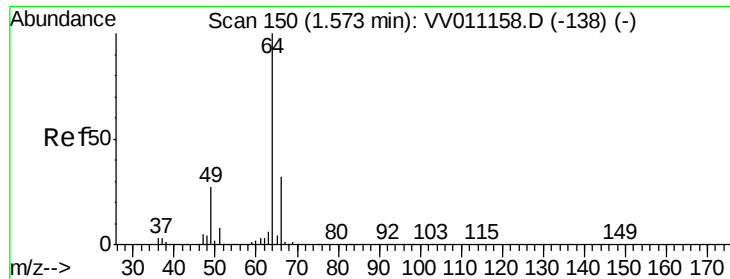


Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0



Time-->



#8

Chloroethane

Concen: 24.662 ug/L

RT: 1.58 min Scan# 151

Delta R.T. 0.00 min

Lab File: VV011177.D

Acq: 31 May 2019 13:11

Instrument :

MSVOA_V

ClientSampleId :

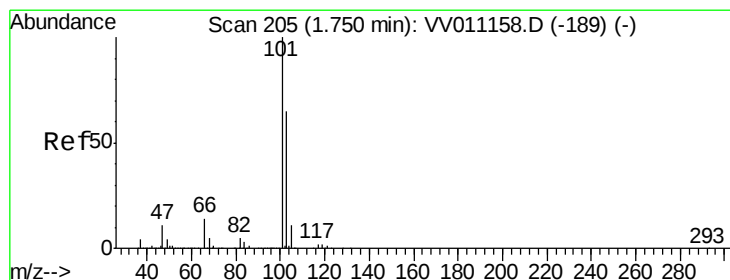
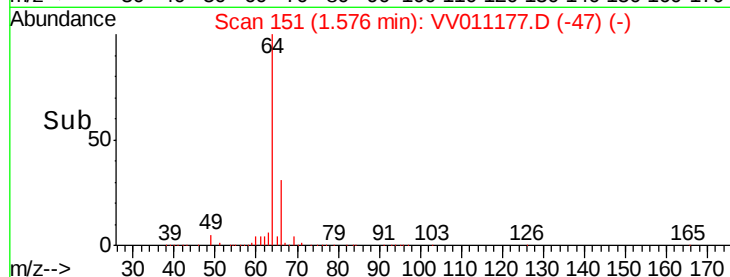
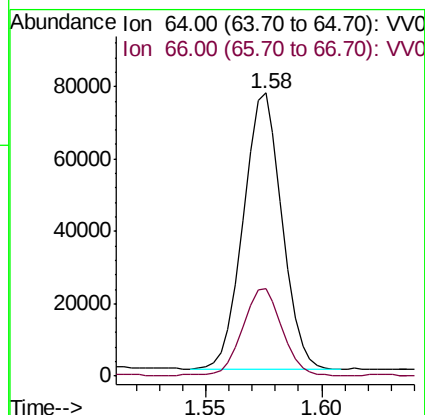
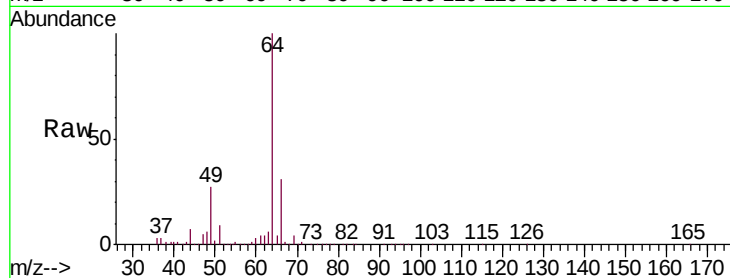
VSTD02581

Tgt Ion: 64 Resp: 88153

Ion Ratio Lower Upper

64 100

66 30.9 21.7 40.3



#9

Trichlorofluoromethane

Concen: 24.969 ug/L

RT: 1.75 min Scan# 205

Delta R.T. -0.00 min

Lab File: VV011177.D

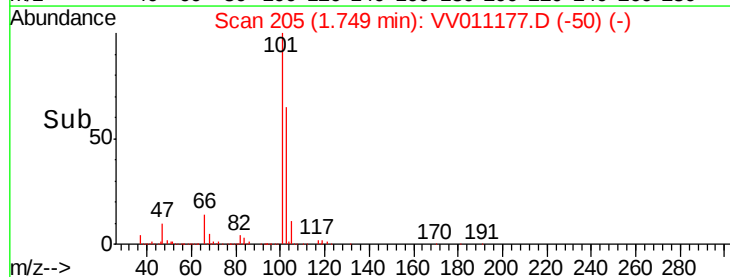
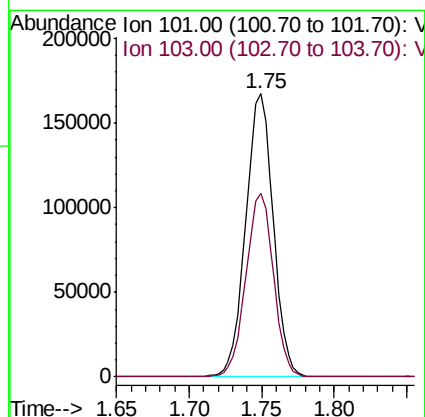
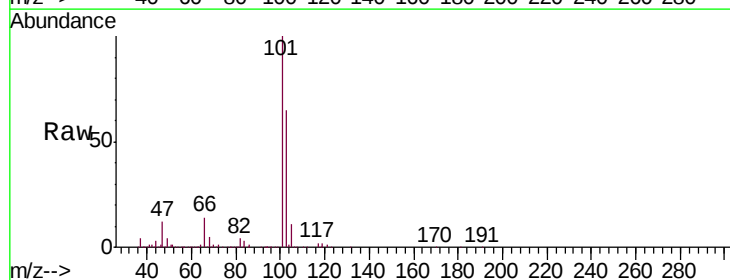
Acq: 31 May 2019 13:11

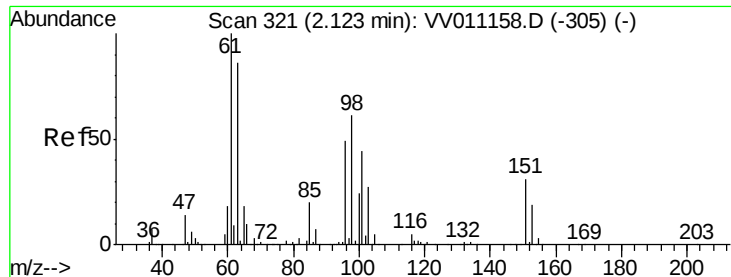
Tgt Ion: 101 Resp: 221950

Ion Ratio Lower Upper

101 100

103 64.9 44.4 82.4





#11

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

Concen: 23.422 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.00 min

Lab File: VV011177.D

Acq: 31 May 2019 13:11

Instrument :

MSVOA_V

ClientSampleId :

VSTD02581

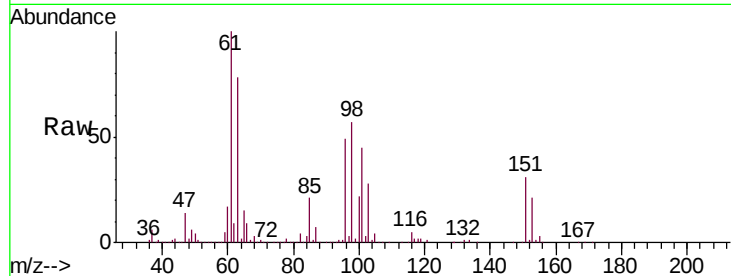
Tgt Ion:101 Resp: 111510

Ion Ratio Lower Upper

101 100

85 46.7 37.4 56.2

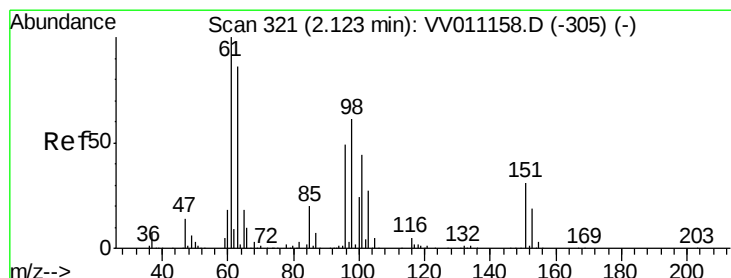
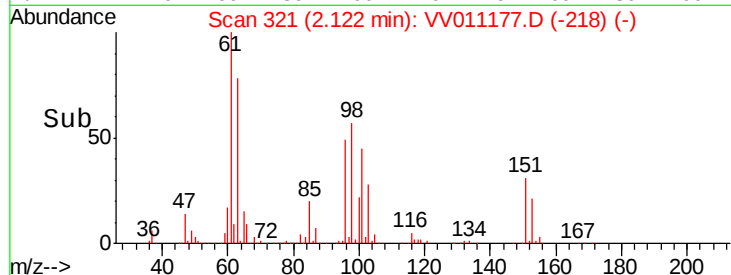
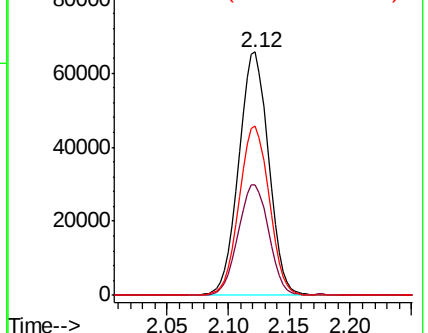
151 70.0 57.1 85.7



Abundance Ion 101.00 (100.70 to 101.70): VV011177.D (-218) (-)

Ion 85.00 (84.70 to 85.70): VV011177.D (-218) (-)

Ion 151.00 (150.70 to 151.70): VV011177.D (-218) (-)



#12

1,1-Dichloroethene

Concen: 23.601 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.00 min

Lab File: VV011177.D

Acq: 31 May 2019 13:11

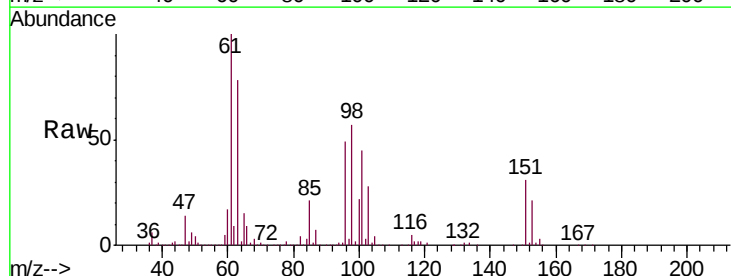
Tgt Ion: 96 Resp: 104087

Ion Ratio Lower Upper

96 100

61 203.6 141.6 263.0

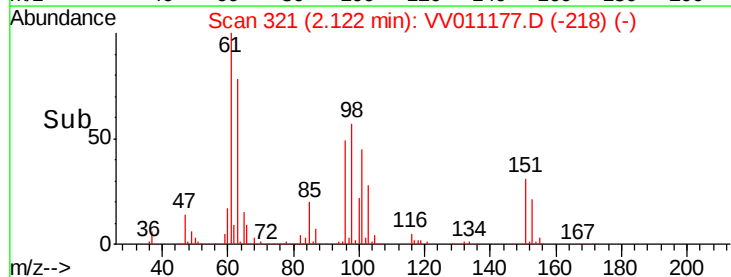
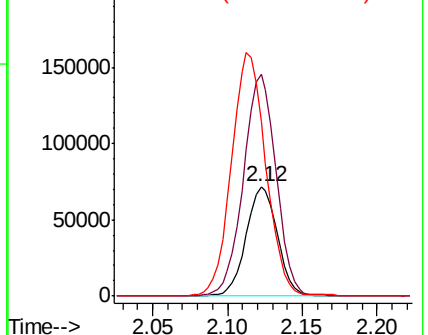
63 159.5 114.4 212.4

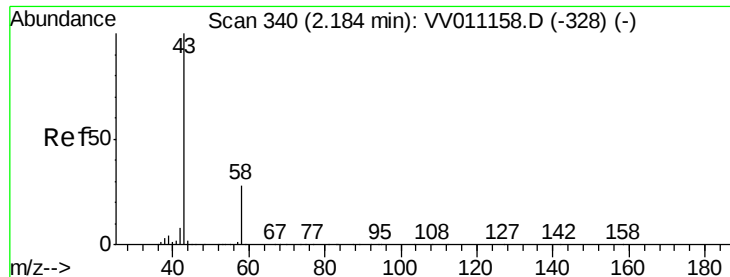


Abundance Ion 96.00 (95.70 to 96.70): VV011177.D (-218) (-)

Ion 61.00 (60.70 to 61.70): VV011177.D (-218) (-)

Ion 63.00 (62.70 to 63.70): VV011177.D (-218) (-)





#13

Acetone

Concen: 51.245 ug/L

RT: 2.18 min Scan# 340

Delta R.T. -0.00 min

Lab File: VV011177.D

Acq: 31 May 2019 13:11

Instrument :

MSVOA_V

ClientSampleId :

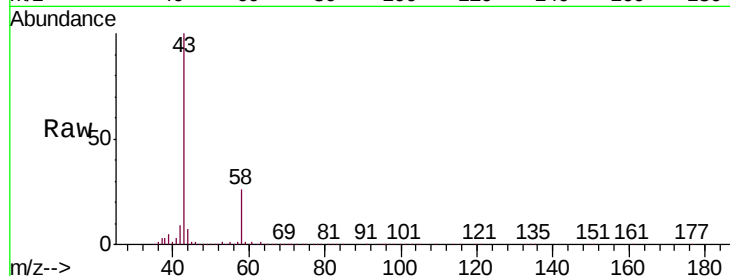
VSTD02581

Tgt Ion: 43 Resp: 115711

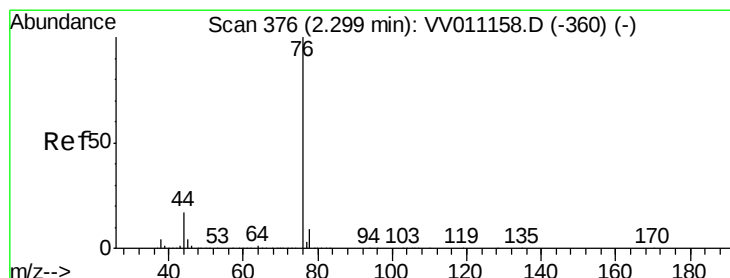
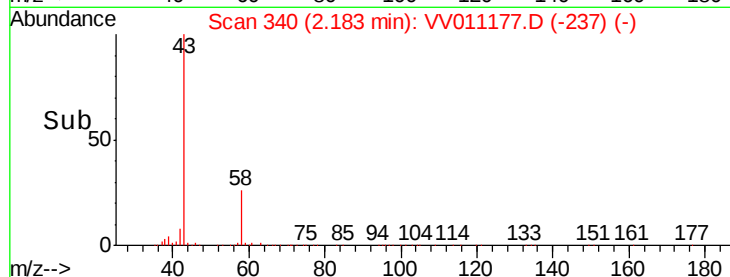
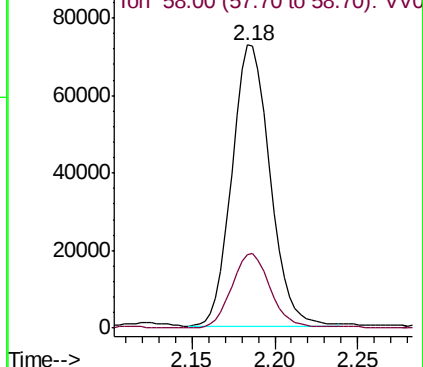
Ion Ratio Lower Upper

43 100

58 26.6 0.0 53.8



Abundance Ion 43.00 (42.70 to 43.70): VV011158.D (-328) (-)



#14

Carbon disulfide

Concen: 22.788 ug/L

RT: 2.30 min Scan# 376

Delta R.T. -0.00 min

Lab File: VV011177.D

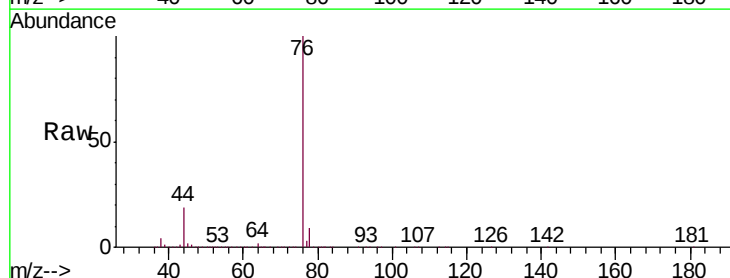
Acq: 31 May 2019 13:11

Tgt Ion: 76 Resp: 322765

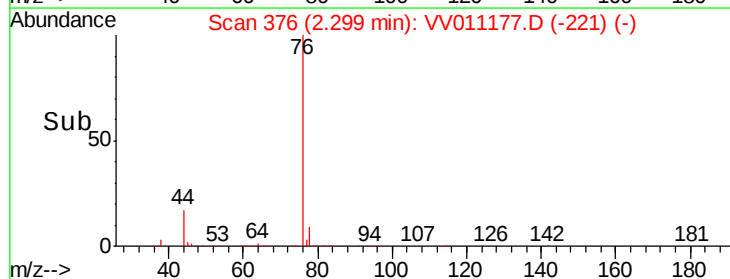
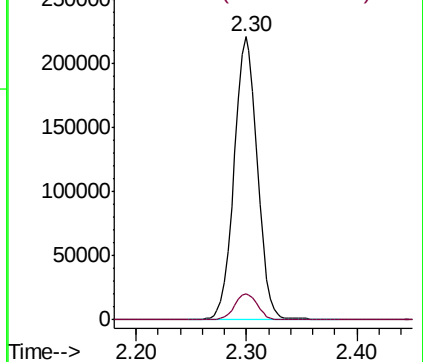
Ion Ratio Lower Upper

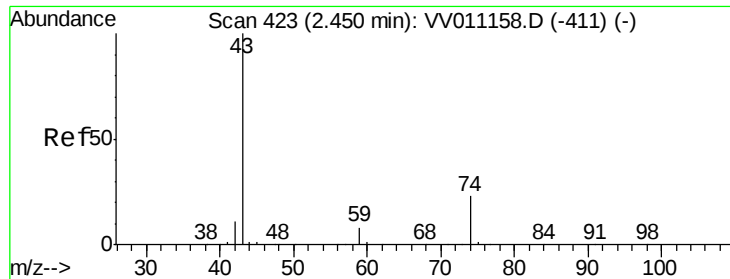
76 100

78 9.2 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VV011158.D (-360) (-)

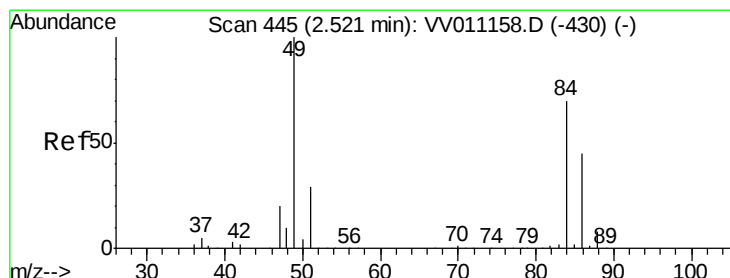
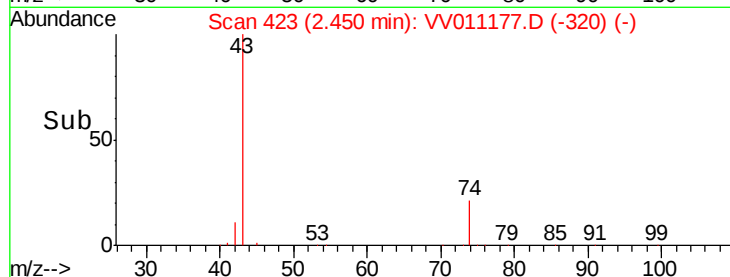
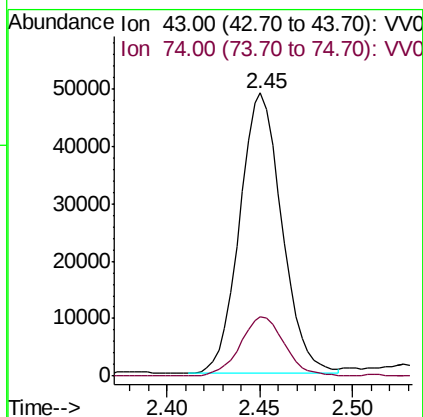
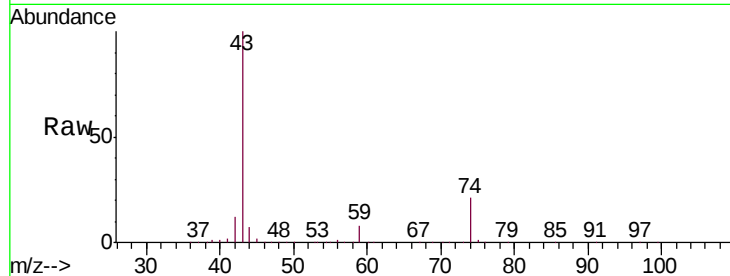




#15
Methyl Acetate
Concen: 22.591 ug/L
RT: 2.45 min Scan# 423
Delta R.T. -0.00 min
Lab File: VV011177.D
Acq: 31 May 2019 13:11

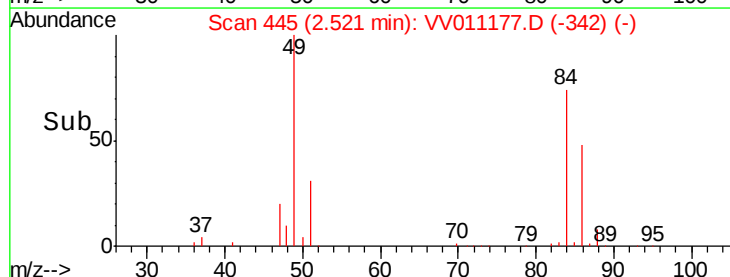
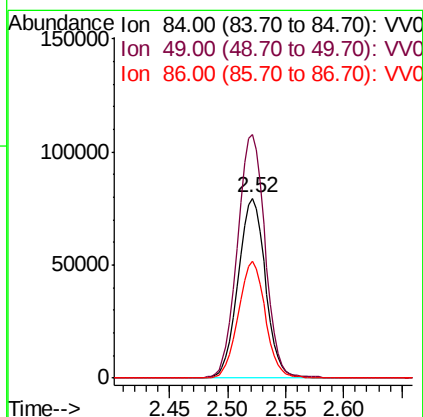
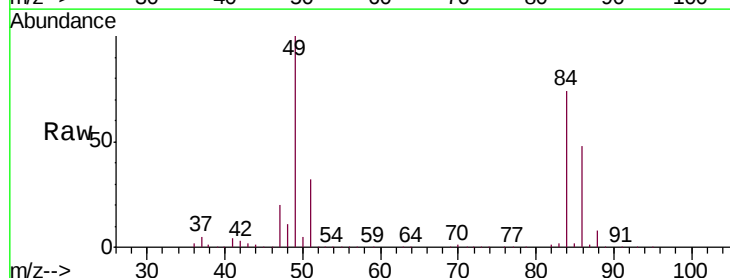
Instrument :
MSVOA_V
ClientSampled :
VSTD02581

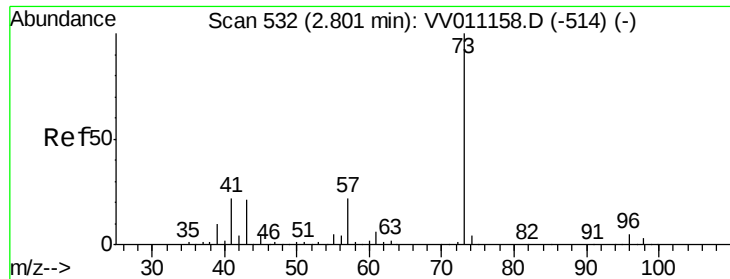
Tgt Ion: 43 Resp: 76755
Ion Ratio Lower Upper
43 100
74 22.2 16.2 24.4



#16
Methylene chloride
Concen: 21.783 ug/L
RT: 2.52 min Scan# 445
Delta R.T. -0.00 min
Lab File: VV011177.D
Acq: 31 May 2019 13:11

Tgt Ion: 84 Resp: 130293
Ion Ratio Lower Upper
84 100
49 135.5 96.1 178.5
86 64.8 45.0 83.6

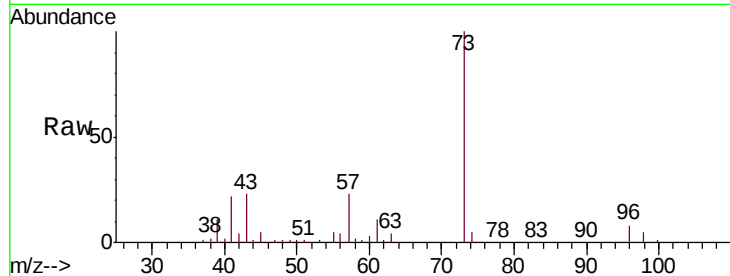




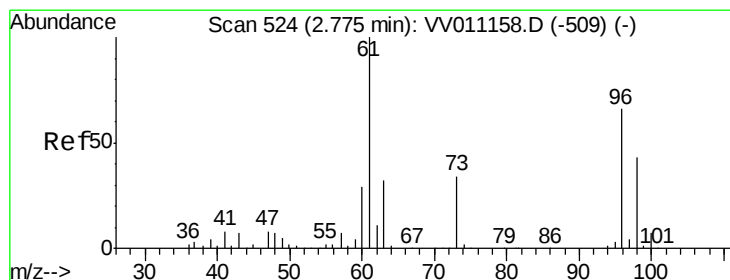
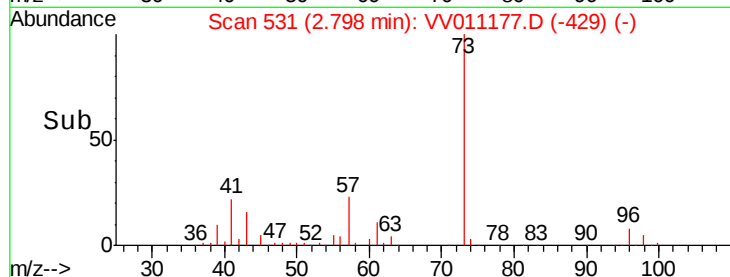
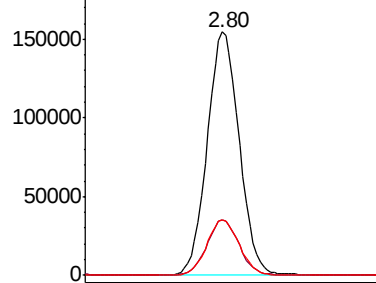
#17
Methyl tert-butyl Ether
Concen: 20.914 ug/L
RT: 2.80 min Scan# 531
Delta R.T. -0.00 min
Lab File: VV011177.D
Acq: 31 May 2019 13:11

Instrument :
MSVOA_V
ClientSampleId :
VSTD02581

Tgt Ion: 73 Resp: 319759
Ion Ratio Lower Upper
73 100
43 22.5 17.5 26.3
57 23.1 18.2 27.4

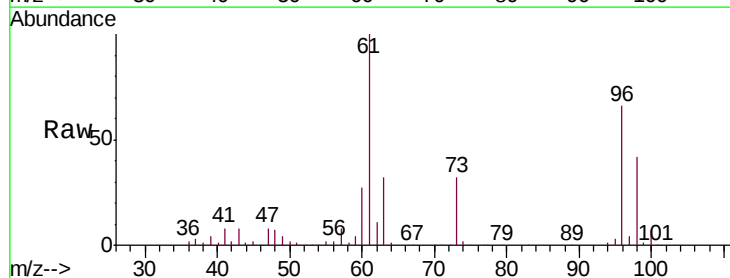


Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0

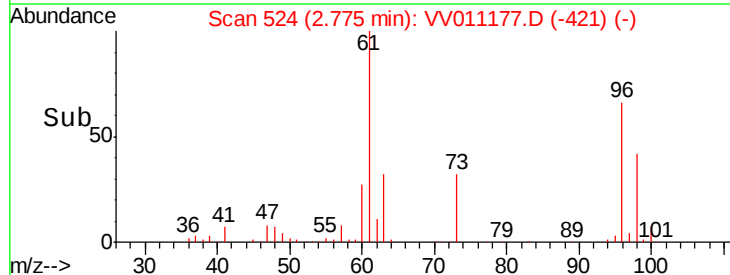
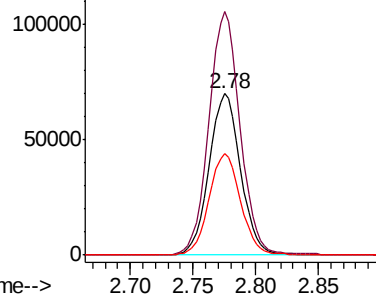


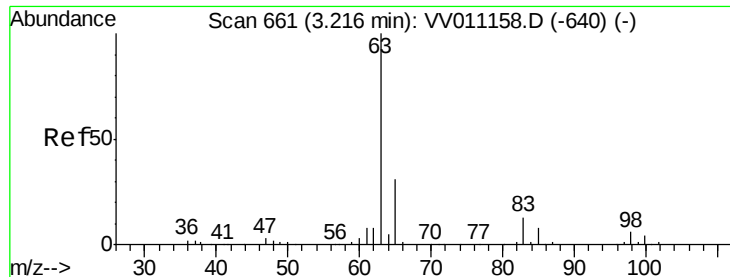
#18
trans-1,2-Dichloroethene
Concen: 22.712 ug/L
RT: 2.78 min Scan# 524
Delta R.T. -0.00 min
Lab File: VV011177.D
Acq: 31 May 2019 13:11

Tgt Ion: 96 Resp: 122010
Ion Ratio Lower Upper
96 100
61 150.8 102.6 190.5
98 62.8 43.3 80.3



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

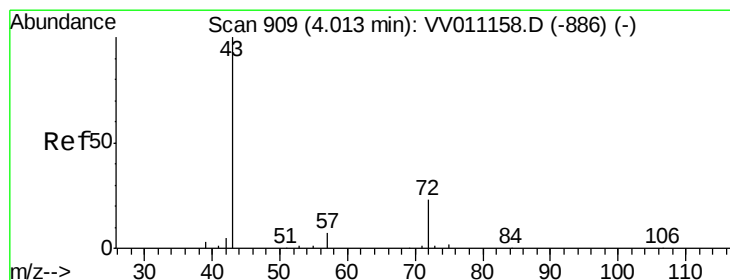
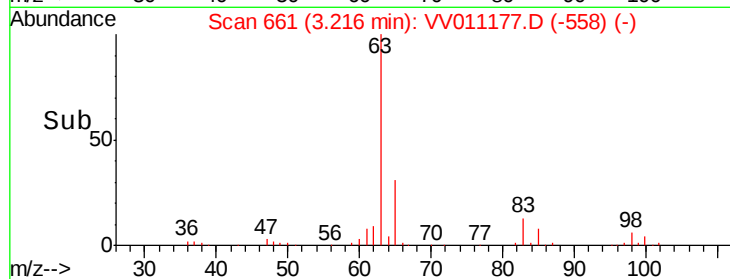
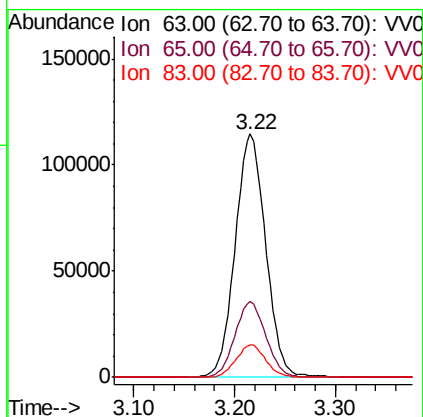
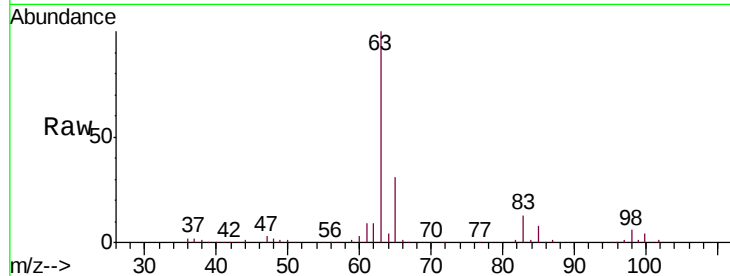




#19
 1,1-Dichloroethane
 Concen: 23.140 ug/L
 RT: 3.22 min Scan# 661
 Delta R.T. -0.00 min
 Lab File: VV011177.D
 Acq: 31 May 2019 13:11

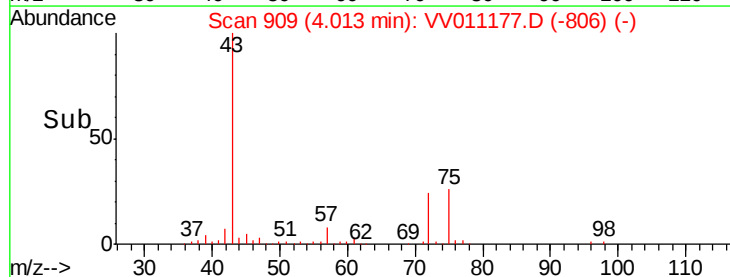
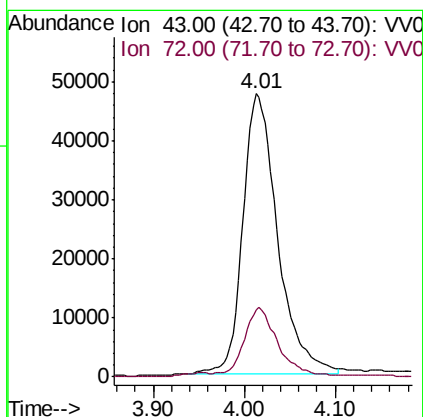
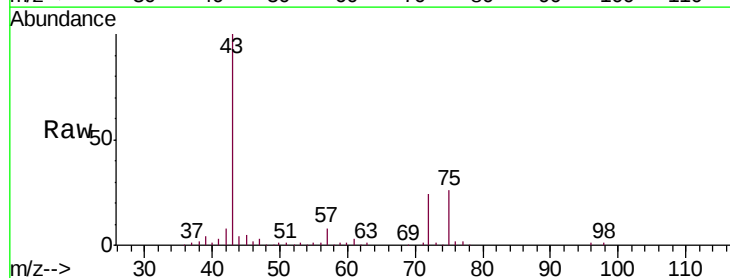
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02581

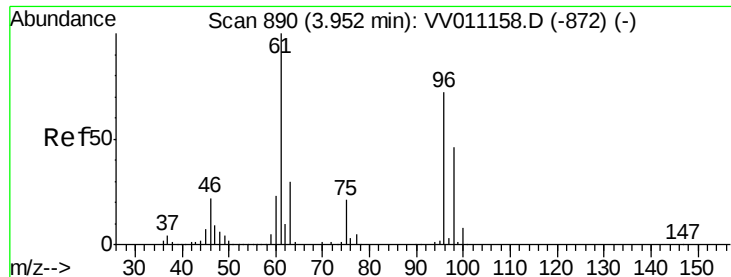
Tgt Ion: 63 Resp: 240522
 Ion Ratio Lower Upper
 63 100
 65 31.1 22.7 42.3
 83 13.4 9.2 17.0



#21
 2-Butanone
 Concen: 47.511 ug/L
 RT: 4.01 min Scan# 909
 Delta R.T. -0.00 min
 Lab File: VV011177.D
 Acq: 31 May 2019 13:11

Tgt Ion: 43 Resp: 125858
 Ion Ratio Lower Upper
 43 100
 72 22.1 11.1 33.3



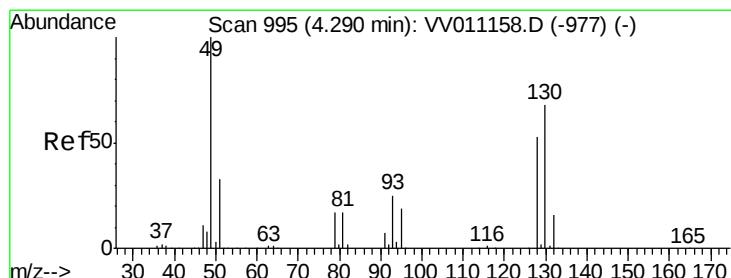
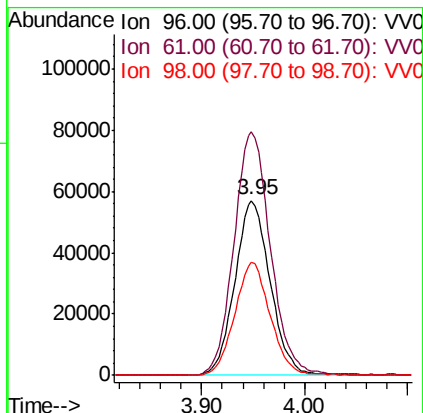
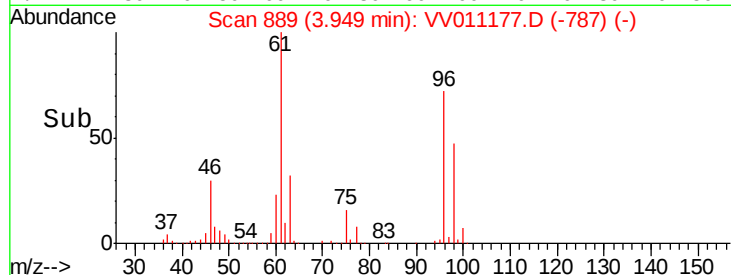
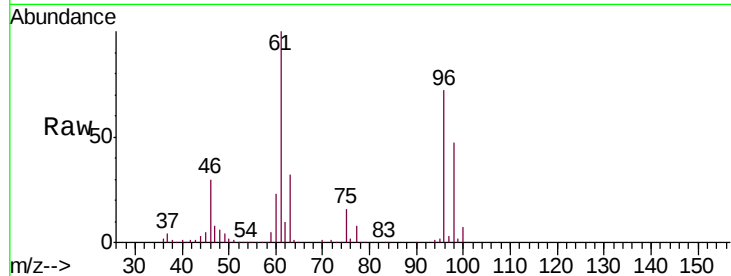


#22

cis-1,2-Dichloroethene
Concen: 22.693 ug/L
RT: 3.95 min Scan# 889
Delta R.T. -0.00 min
Lab File: VV011177.D
Acq: 31 May 2019 13:11

Instrument :
MSVOA_V
ClientSampleId :
VSTD02581

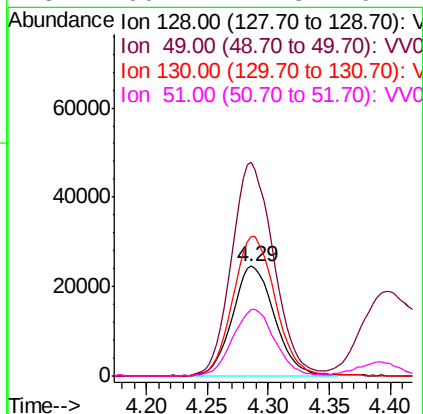
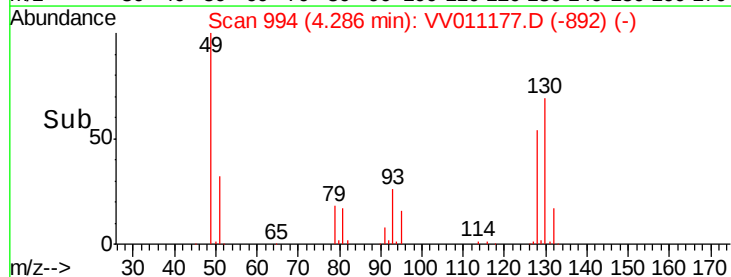
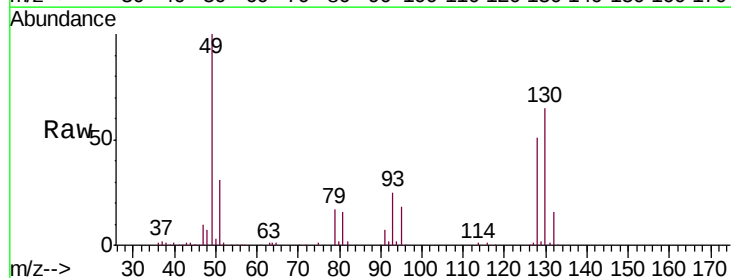
Tgt Ion: 96 Resp: 136162
Ion Ratio Lower Upper
96 100
61 139.5 97.4 181.0
98 65.1 45.0 83.6

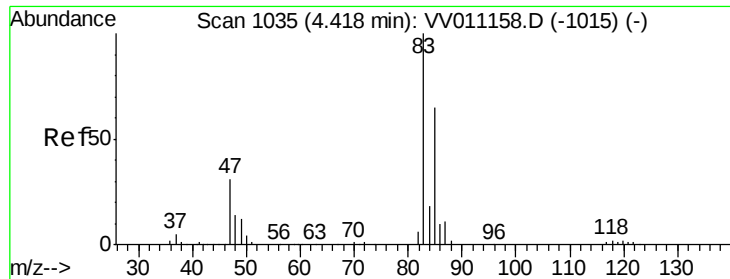


#23

Bromochloromethane
Concen: 22.369 ug/L
RT: 4.29 min Scan# 994
Delta R.T. -0.00 min
Lab File: VV011177.D
Acq: 31 May 2019 13:11

Tgt Ion: 128 Resp: 59055
Ion Ratio Lower Upper
128 100
49 194.2 125.4 233.0
130 127.2 83.3 154.7
51 60.4 44.8 67.2

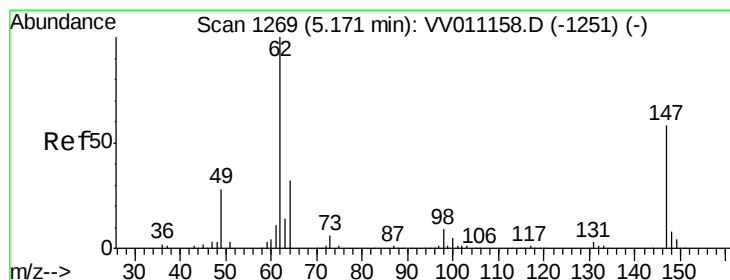
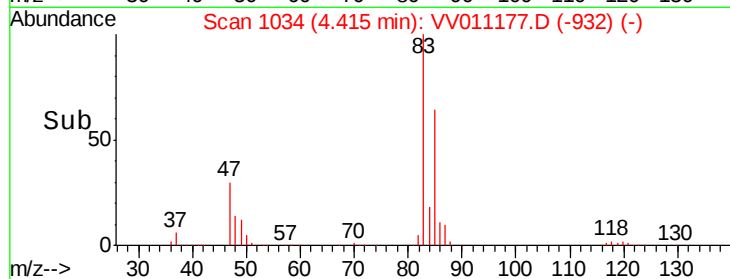
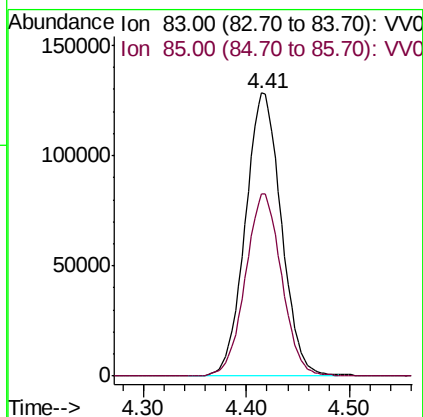
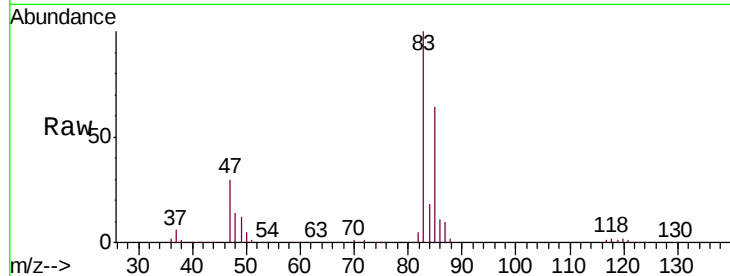




#25
Chloroform
Concen: 27.987 ug/L
RT: 4.41 min Scan# 1034
Delta R.T. -0.00 min
Lab File: VV011177.D
Acq: 31 May 2019 13:11

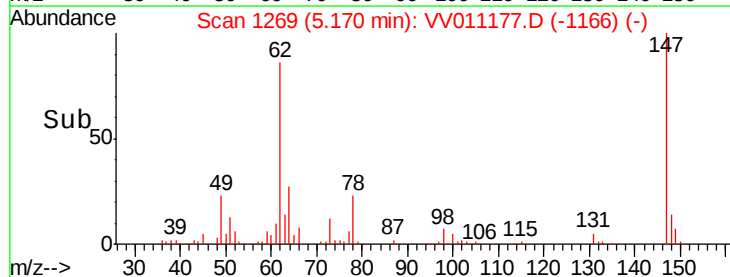
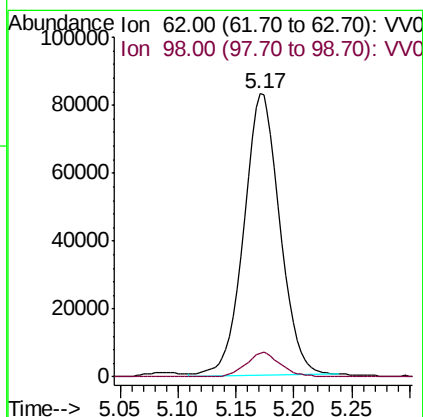
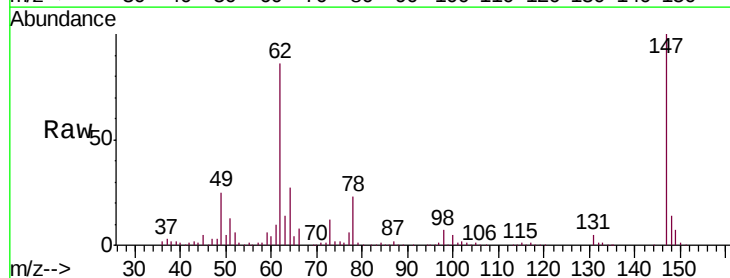
Instrument :
MSVOA_V
ClientSampled :
VSTD02581

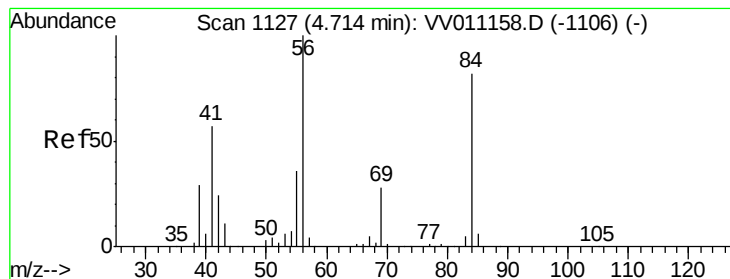
Tgt Ion: 83 Resp: 310800
Ion Ratio Lower Upper
83 100
85 64.9 45.6 84.6



#27
1,2-Dichloroethane
Concen: 23.107 ug/L
RT: 5.17 min Scan# 1269
Delta R.T. -0.00 min
Lab File: VV011177.D
Acq: 31 May 2019 13:11

Tgt Ion: 62 Resp: 179689
Ion Ratio Lower Upper
62 100
98 8.5 7.4 11.0





#30

Cyclohexane

Concen: 22.133 ug/L

RT: 4.71 min Scan# 1127

Delta R.T. -0.00 min

Lab File: VV011177.D

Acq: 31 May 2019 13:11

Instrument :

MSVOA_V

ClientSampleId :

VSTD02581

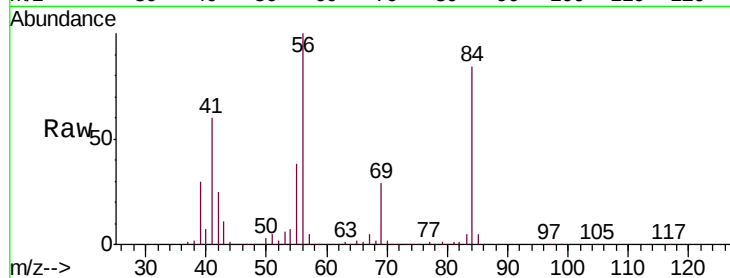
Tgt Ion: 56 Resp: 220462

Ion Ratio Lower Upper

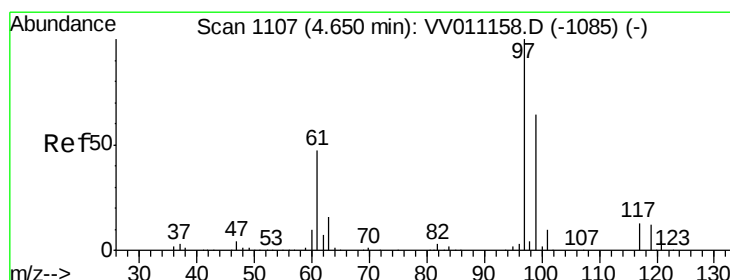
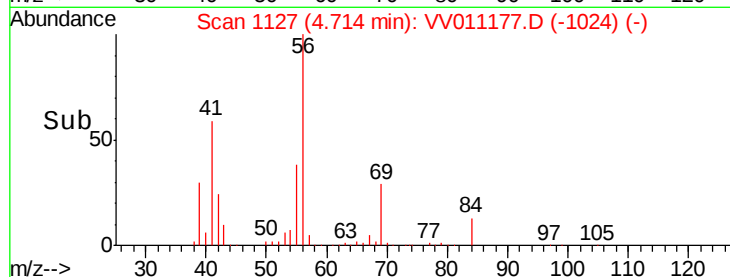
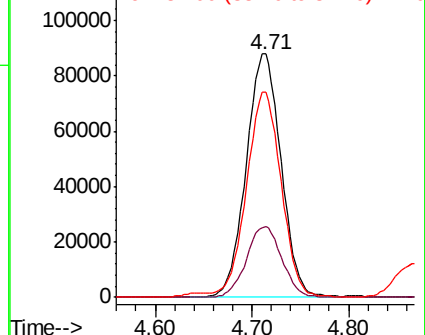
56 100

69 29.5 23.4 35.0

84 82.7 65.8 98.8



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



#31

1,1,1-Trichloroethane

Concen: 23.494 ug/L

RT: 4.65 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VV011177.D

Acq: 31 May 2019 13:11

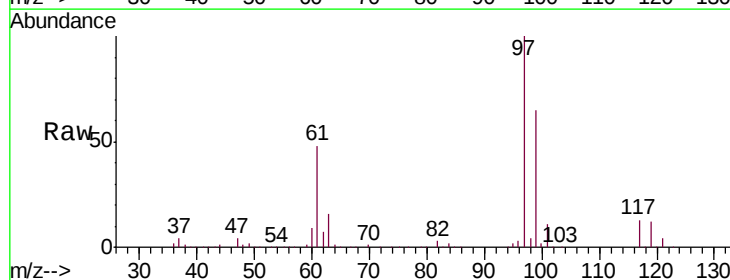
Tgt Ion: 97 Resp: 200423

Ion Ratio Lower Upper

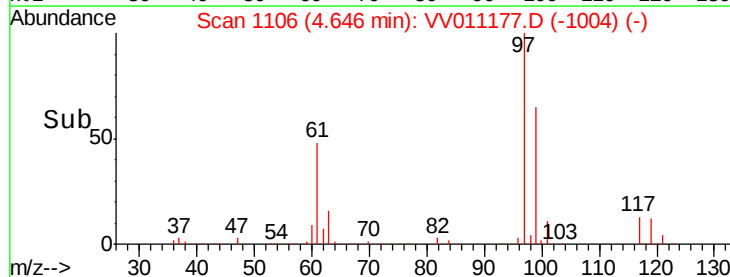
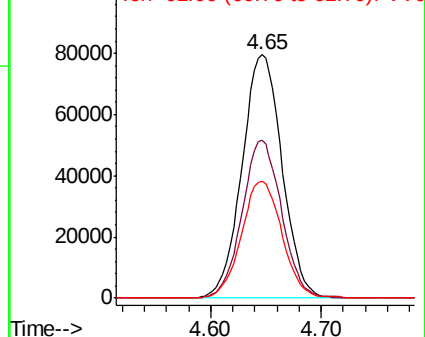
97 100

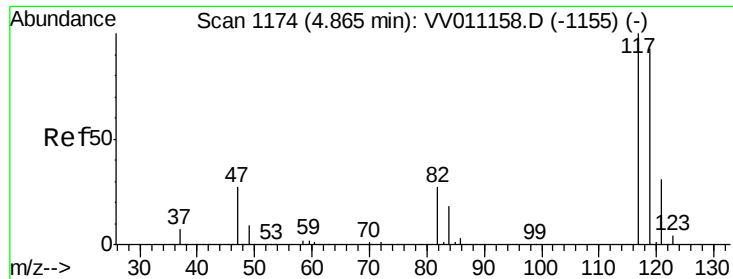
99 63.8 51.3 76.9

61 48.7 38.4 57.6



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.00 (60.70 to 61.70): VV0





#32

Carbon tetrachloride

Concen: 22.830 ug/L

RT: 4.86 min Scan# 1174

Delta R.T. -0.00 min

Lab File: VV011177.D

Acq: 31 May 2019 13:11

Instrument :

MSVOA_V

ClientSampleId :

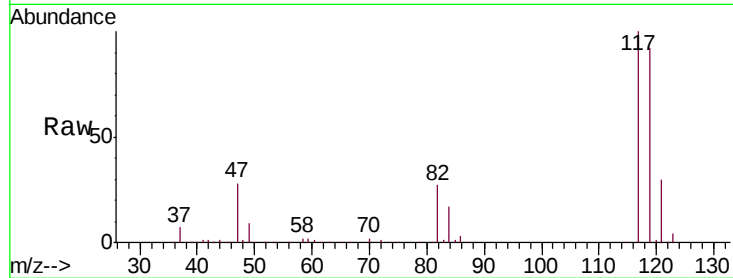
VSTD02581

Tgt Ion:117 Resp: 165112

Ion Ratio Lower Upper

117 100

119 95.1 76.3 114.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

80000

60000

40000

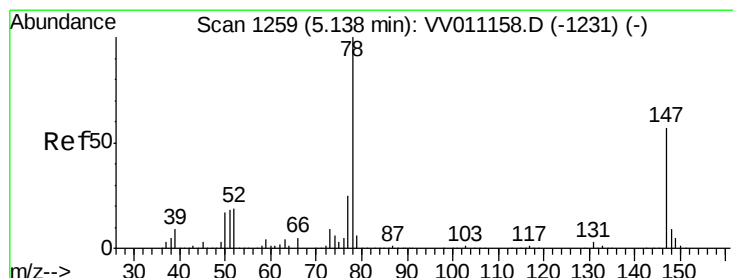
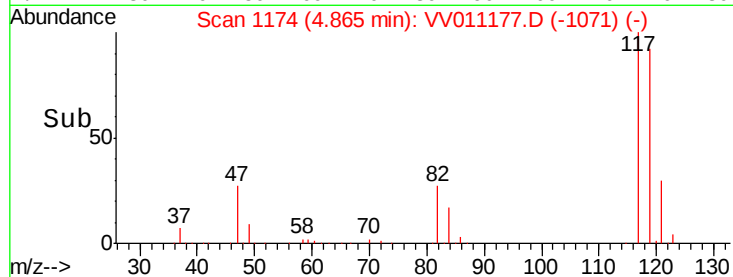
20000

0

Time-->

4.75 4.80 4.85 4.90 4.95

4.86



#34

Benzene

Concen: 22.763 ug/L

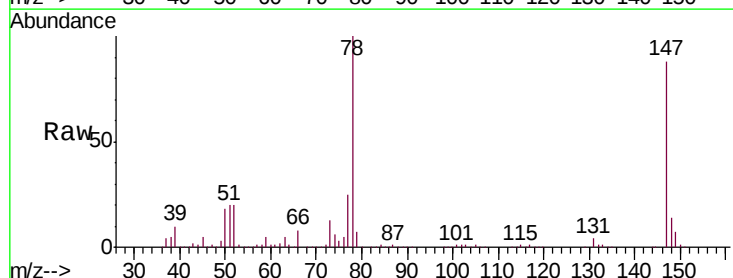
RT: 5.14 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VV011177.D

Acq: 31 May 2019 13:11

Tgt Ion: 78 Resp: 502640



Abundance Ion 78.00 (77.70 to 78.70): VV0

250000

200000

150000

100000

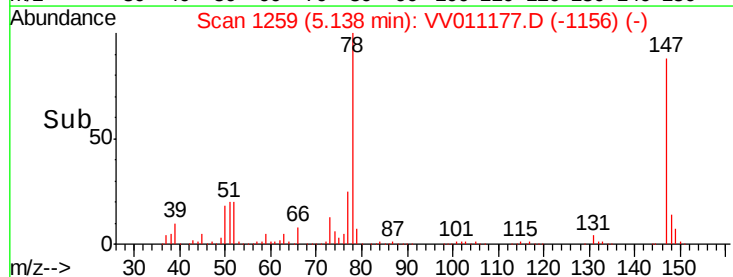
50000

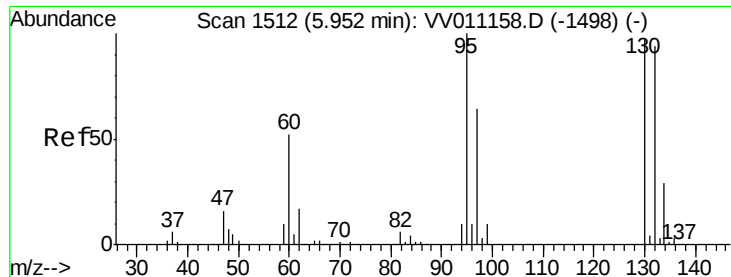
0

Time-->

5.00 5.10 5.20 5.30

5.14





#35

Trichloroethene

Concen: 22.754 ug/L

RT: 5.95 min Scan# 1512

Delta R.T. -0.00 min

Lab File: VV011177.D

Acq: 31 May 2019 13:11

Instrument :

MSVOA_V

ClientSampleId :

VSTD02581

Tgt Ion: 95 Resp: 131749

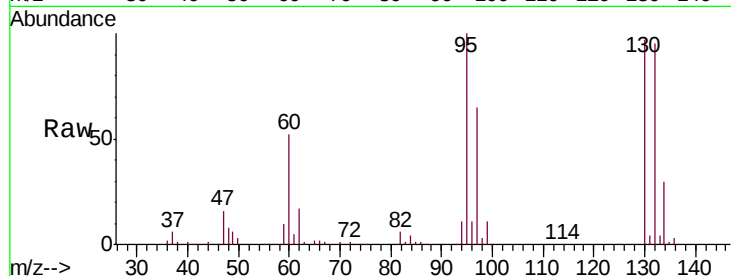
Ion Ratio Lower Upper

95 100

97 65.1 44.4 82.5

132 94.7 66.0 122.6

130 98.6 67.4 125.2

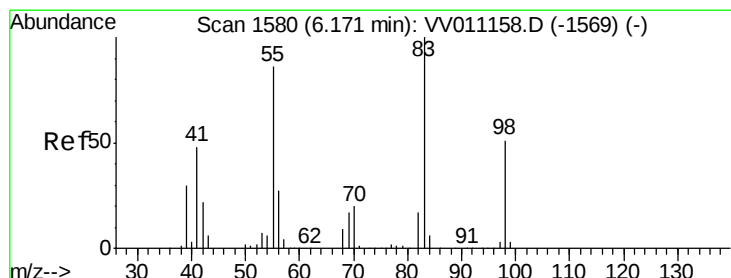
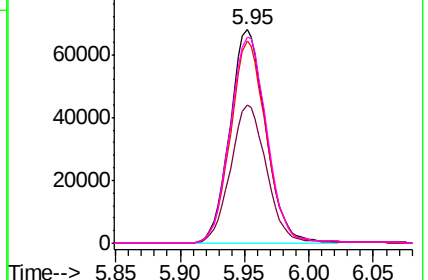
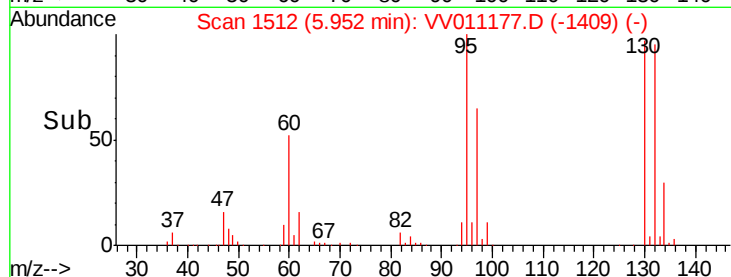


Abundance Ion 95.00 (94.70 to 95.70): VV0

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



#36

Methylcyclohexane

Concen: 23.881 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. -0.00 min

Lab File: VV011177.D

Acq: 31 May 2019 13:11

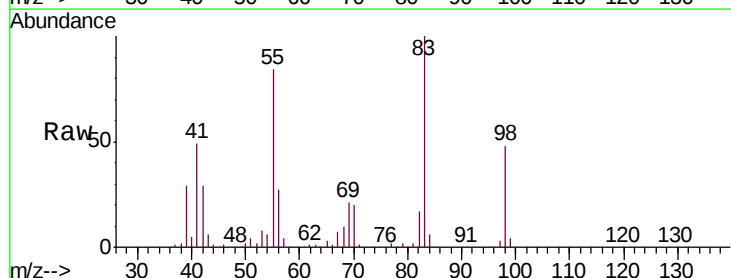
Tgt Ion: 83 Resp: 233990

Ion Ratio Lower Upper

83 100

55 82.1 66.4 99.6

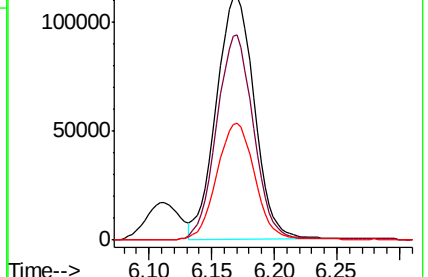
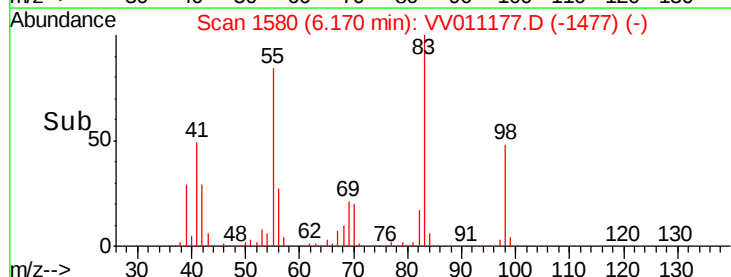
98 48.8 37.9 56.9

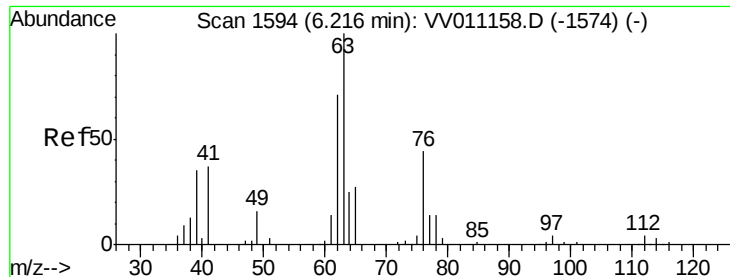


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

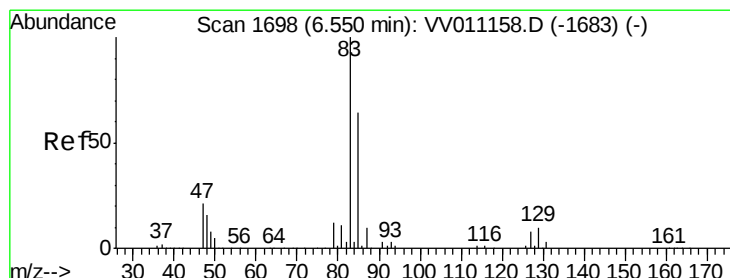
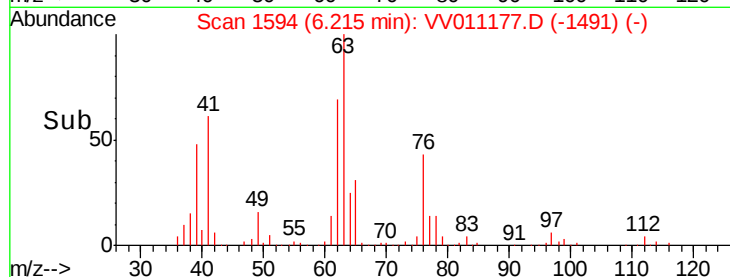
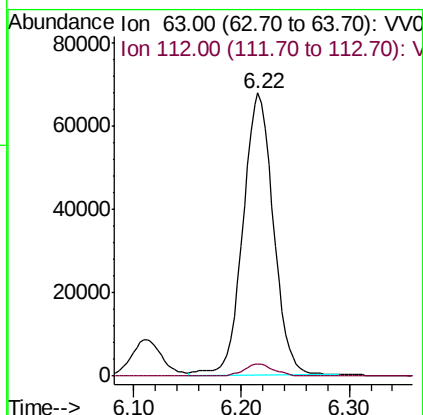
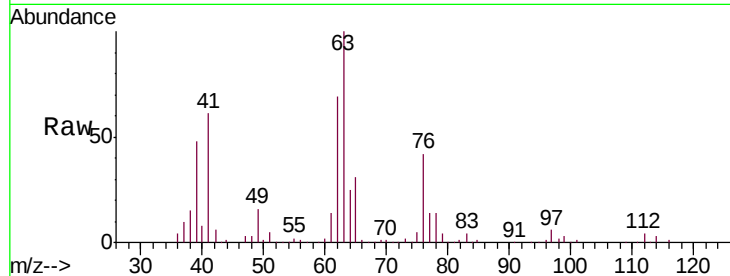




#40
 1,2-Dichloropropane
 Concen: 22.856 ug/L
 RT: 6.22 min Scan# 1594
 Delta R.T. -0.00 min
 Lab File: VV011177.D
 Acq: 31 May 2019 13:11

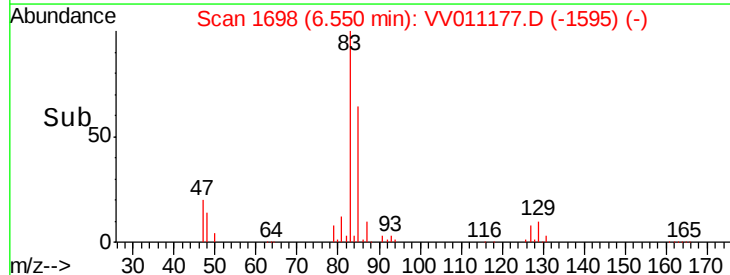
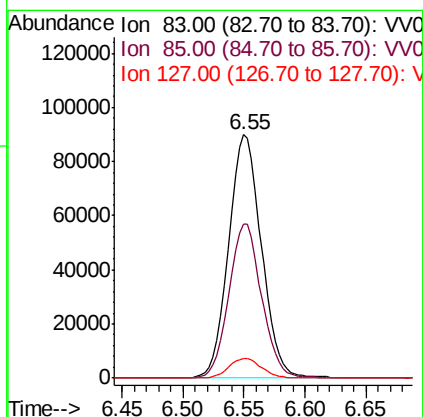
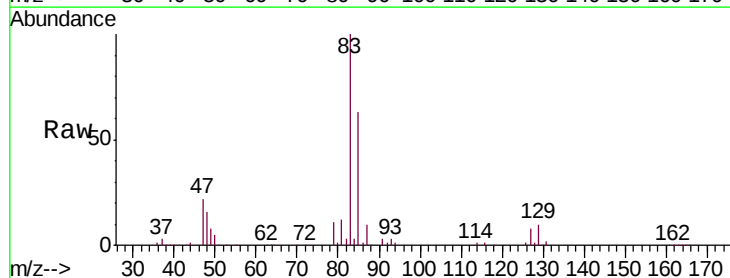
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02581

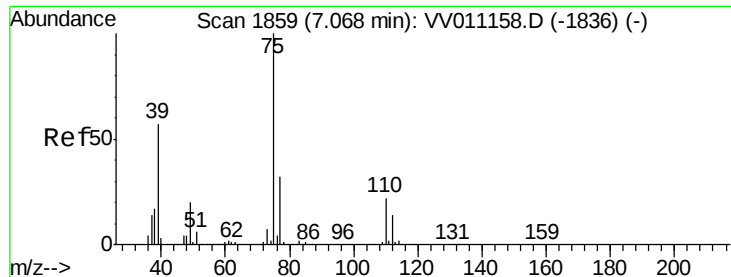
Tgt Ion: 63 Resp: 132667
 Ion Ratio Lower Upper
 63 100
 112 4.2 3.6 5.4



#41
 Bromodichloromethane
 Concen: 22.303 ug/L
 RT: 6.55 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VV011177.D
 Acq: 31 May 2019 13:11

Tgt Ion: 83 Resp: 168623
 Ion Ratio Lower Upper
 83 100
 85 63.4 44.1 81.9
 127 8.1 6.3 9.5



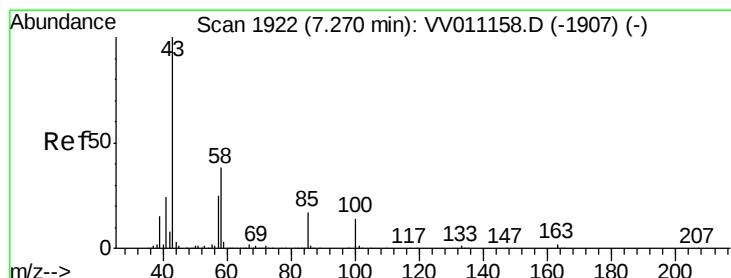
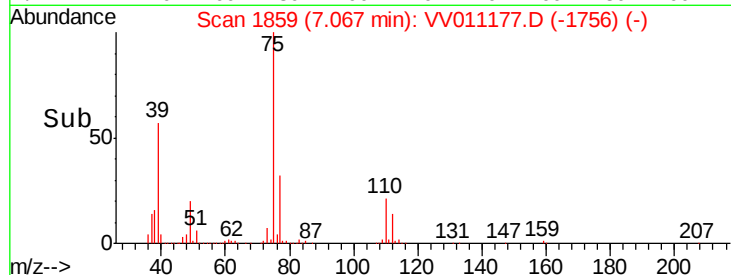
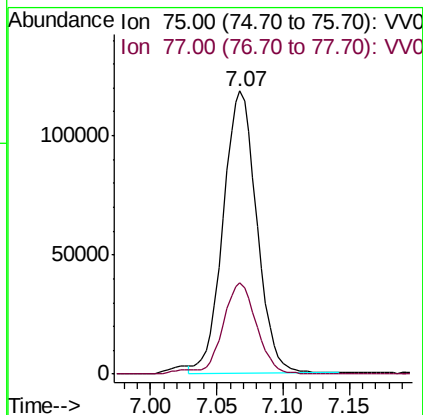
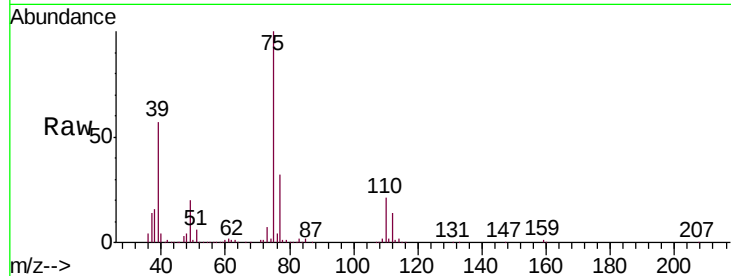


#42

cis-1,3-Dichloropropene
Concen: 22.591 ug/L
RT: 7.07 min Scan# 1859
Delta R.T. -0.00 min
Lab File: VV011177.D
Acq: 31 May 2019 13:11

Instrument :
MSVOA_V
ClientSampled :
VSTD02581

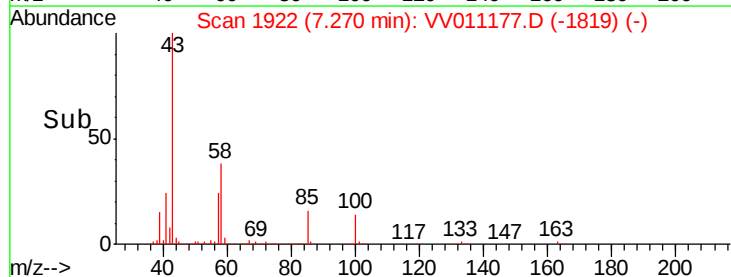
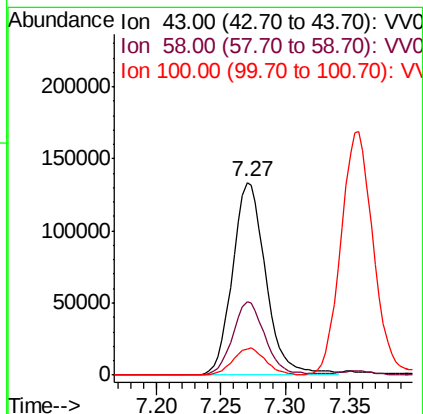
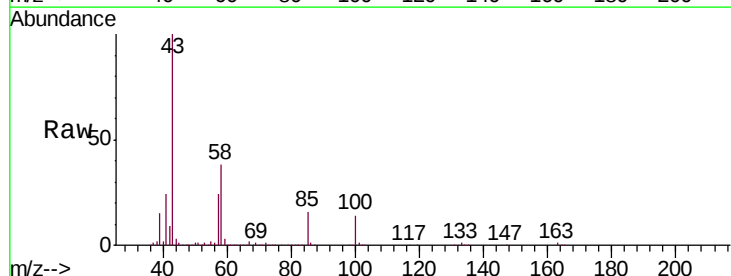
Tgt Ion: 75 Resp: 208474
Ion Ratio Lower Upper
75 100
77 32.1 21.3 39.6

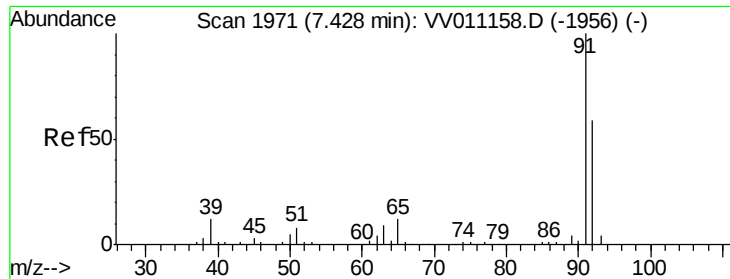


#43

4-Methyl-2-pentanone
Concen: 45.259 ug/L
RT: 7.27 min Scan# 1922
Delta R.T. -0.00 min
Lab File: VV011177.D
Acq: 31 May 2019 13:11

Tgt Ion: 43 Resp: 238657
Ion Ratio Lower Upper
43 100
58 37.3 30.2 45.4
100 13.9 11.3 16.9





#44

Toluene

Concen: 23.752 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV011177.D

Acq: 31 May 2019 13:11

Instrument :

MSVOA_V

ClientSampled :

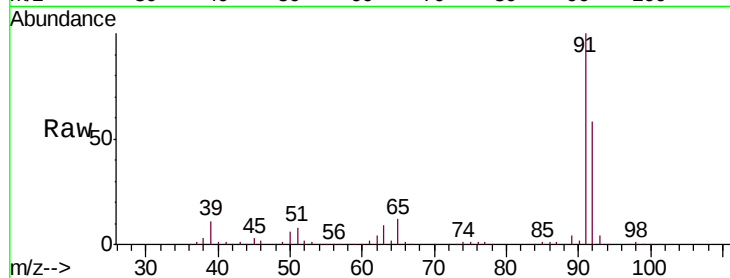
VSTD02581

Tgt Ion: 91 Resp: 572519

Ion Ratio Lower Upper

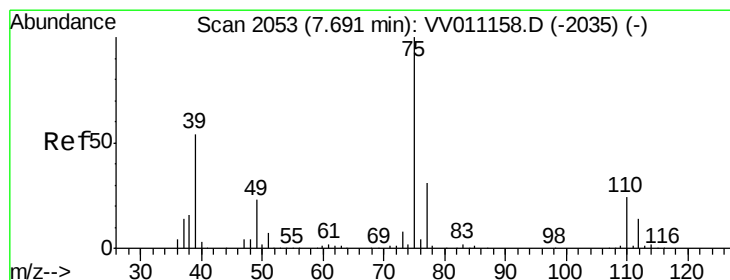
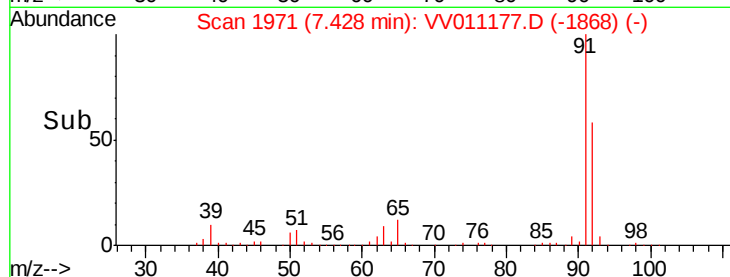
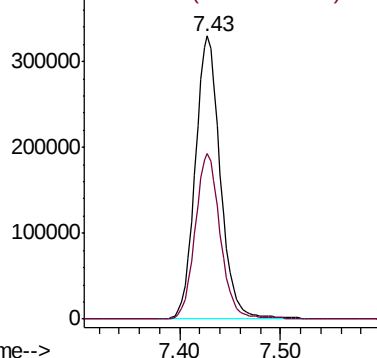
91 100

92 58.3 39.9 74.1



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0



#45

trans-1,3-Dichloropropene

Concen: 23.646 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV011177.D

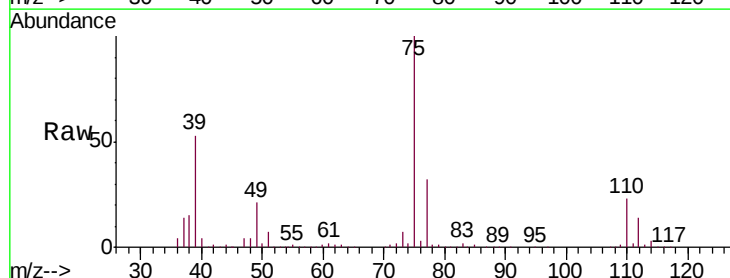
Acq: 31 May 2019 13:11

Tgt Ion: 75 Resp: 186251

Ion Ratio Lower Upper

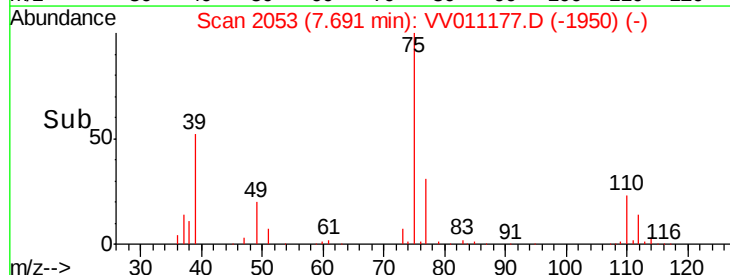
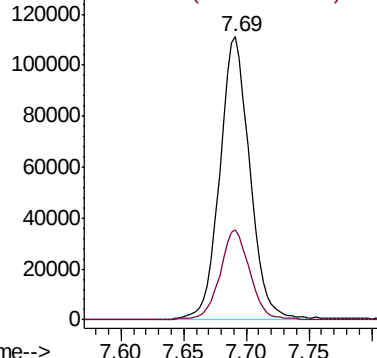
75 100

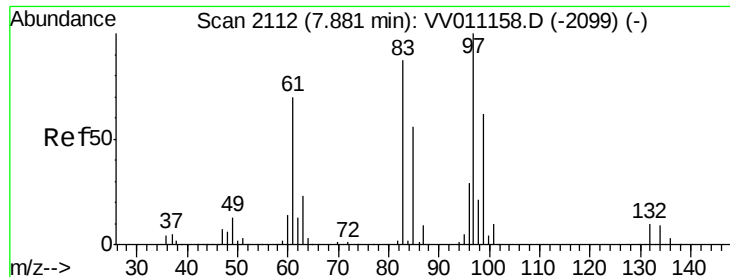
77 31.7 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

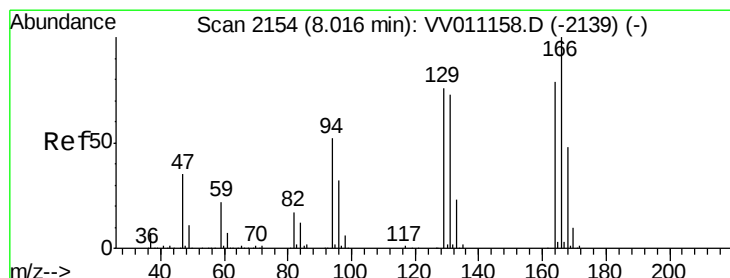
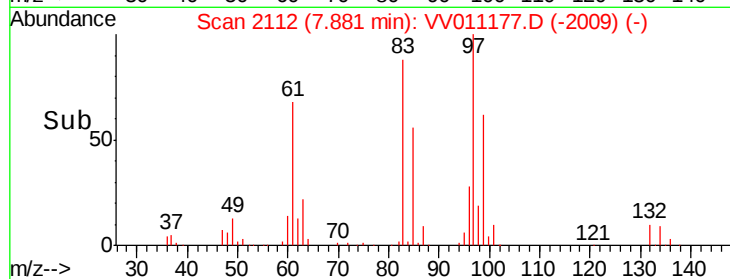
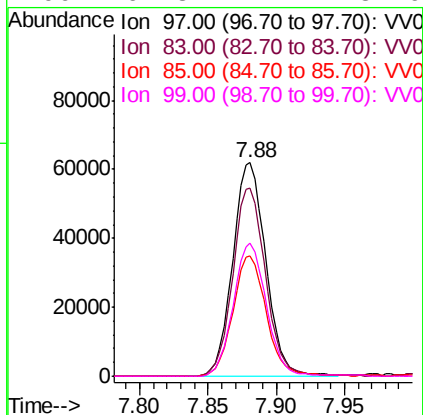
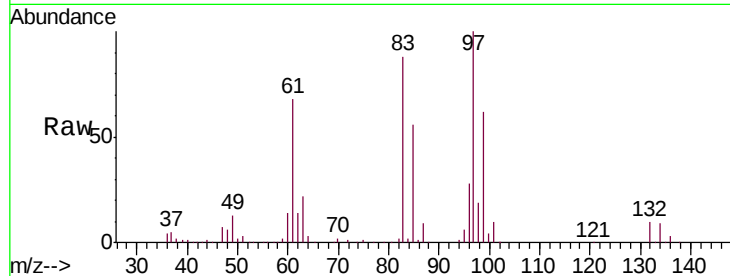




#46
 1,1,2-Trichloroethane
 Concen: 23.041 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VV011177.D
 Acq: 31 May 2019 13:11

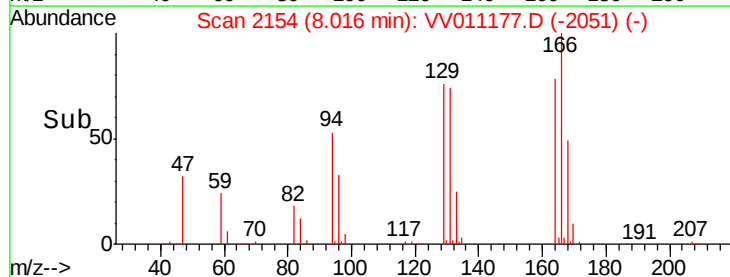
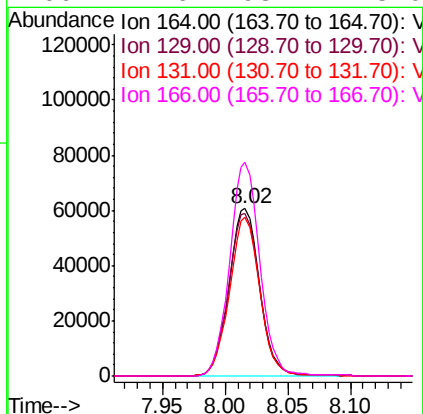
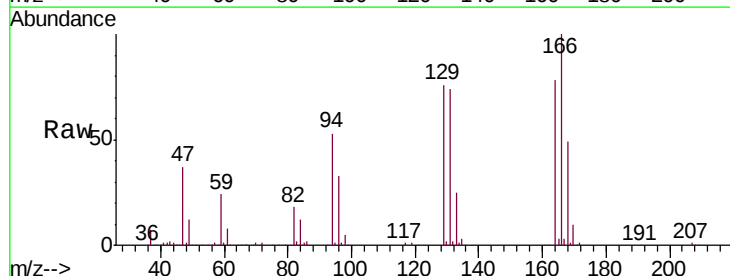
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02581

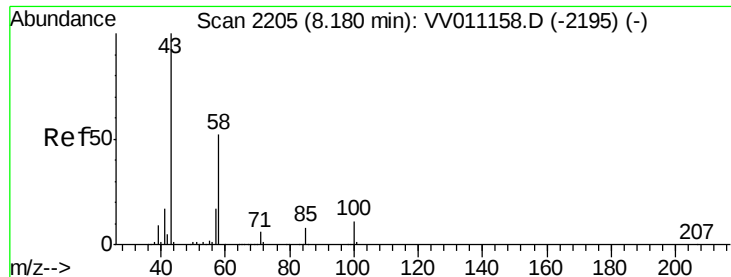
Tgt Ion:	97	Resp:	104320
Ion	Ratio	Lower	Upper
97	100		
83	87.9	61.9	115.1
85	56.1	38.6	71.8
99	62.3	44.7	82.9



#47
 Tetrachloroethene
 Concen: 24.044 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV011177.D
 Acq: 31 May 2019 13:11

Tgt Ion:	164	Resp:	103164
Ion	Ratio	Lower	Upper
164	100		
129	96.8	69.1	128.3
131	94.9	65.5	121.6
166	127.6	93.2	173.0

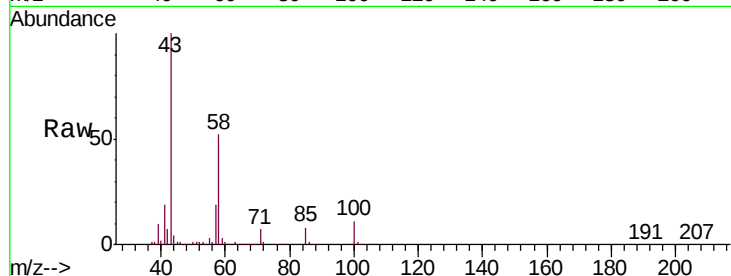




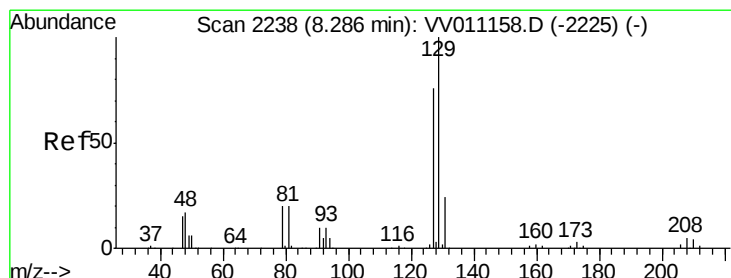
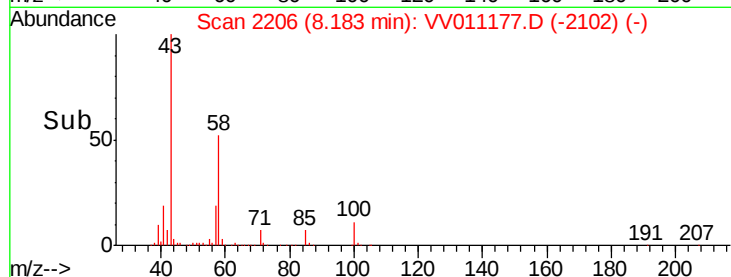
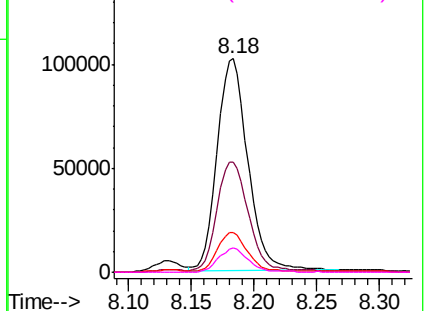
#49
2-Hexanone
Concen: 45.211 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV011177.D
Acq: 31 May 2019 13:11

Instrument :
MSVOA_V
ClientSampleId :
VSTD02581

Tgt Ion: 43 Resp: 171771
Ion Ratio Lower Upper
43 100
58 53.6 41.2 61.8
57 17.7 14.3 21.5
100 11.1 9.1 13.7

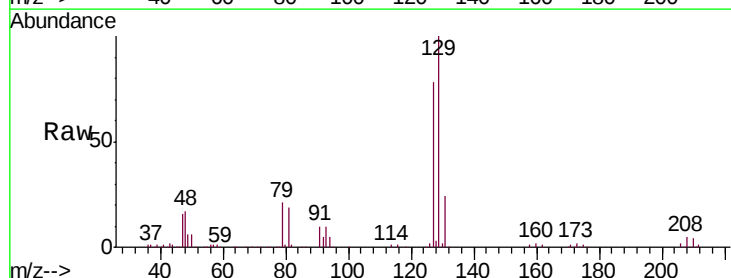


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

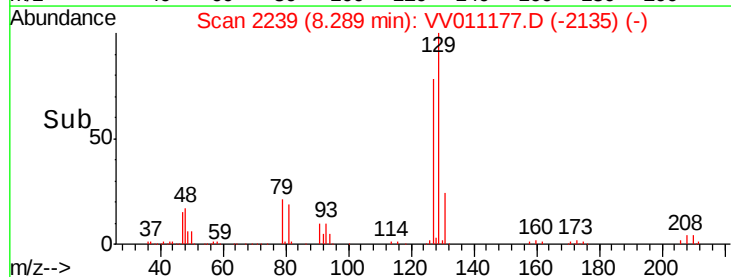
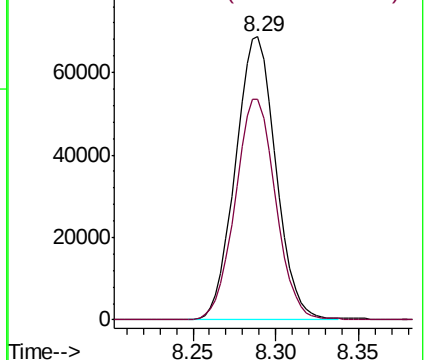


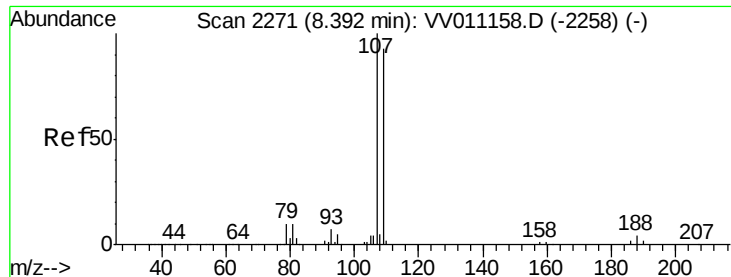
#50
Dibromochloromethane
Concen: 22.730 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV011177.D
Acq: 31 May 2019 13:11

Tgt Ion: 129 Resp: 116297
Ion Ratio Lower Upper
129 100
127 77.8 53.8 99.8



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





#51

1,2-Dibromoethane

Concen: 23.428 ug/L

RT: 8.39 min Scan# 2271

Delta R.T. -0.00 min

Lab File: VV011177.D

Acq: 31 May 2019 13:11

Instrument :

MSVOA_V

ClientSampleId :

VSTD02581

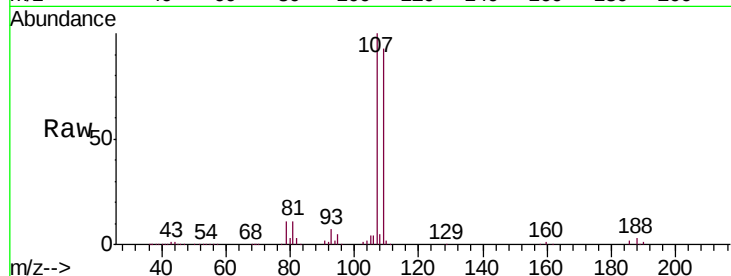
Tgt Ion:107 Resp: 102876

Ion Ratio Lower Upper

107 100

109 93.1 65.5 121.7

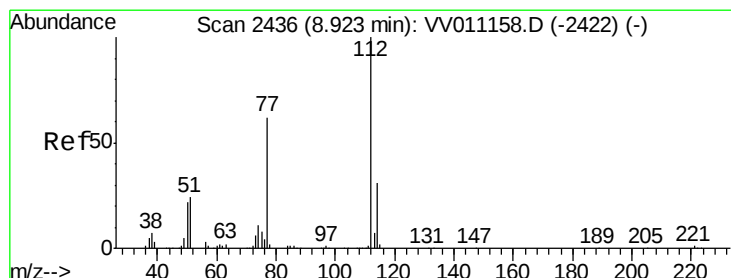
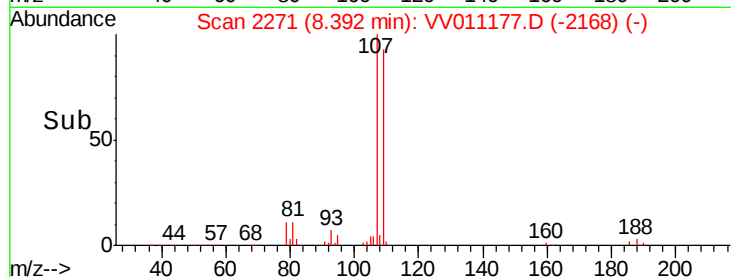
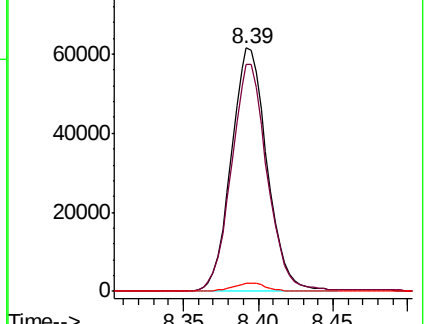
188 3.3 2.6 3.8



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



#52

Chlorobenzene

Concen: 22.869 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. -0.00 min

Lab File: VV011177.D

Acq: 31 May 2019 13:11

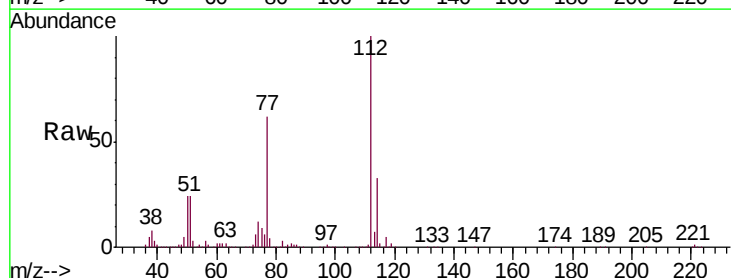
Tgt Ion:112 Resp: 352851

Ion Ratio Lower Upper

112 100

77 62.2 50.8 76.2

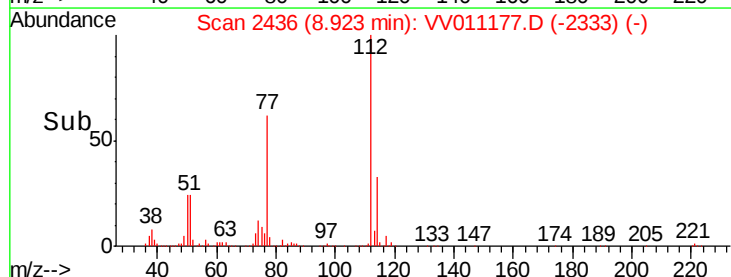
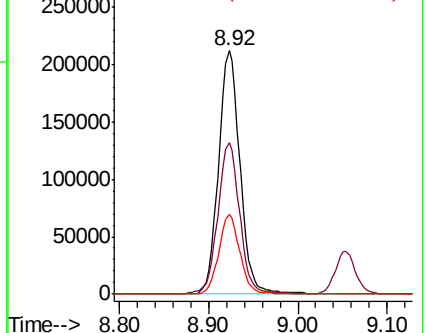
114 32.6 22.6 42.0

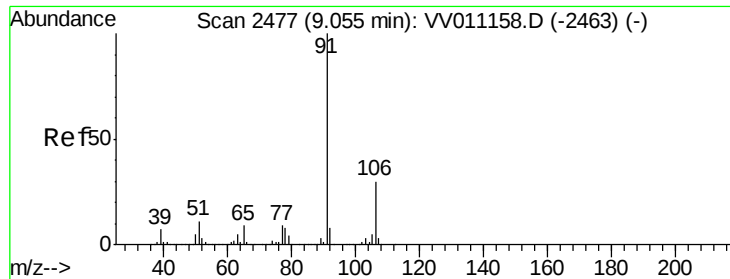


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 23.447 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV011177.D

Acq: 31 May 2019 13:11

Instrument :

MSVOA_V

ClientSampleId :

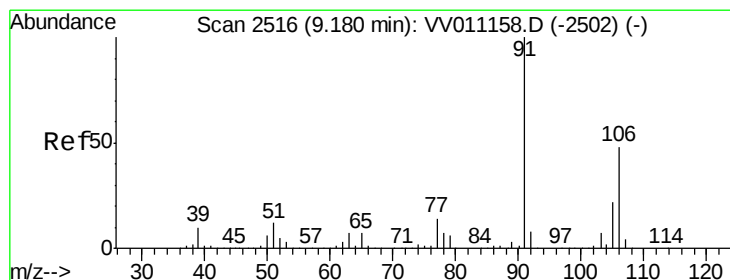
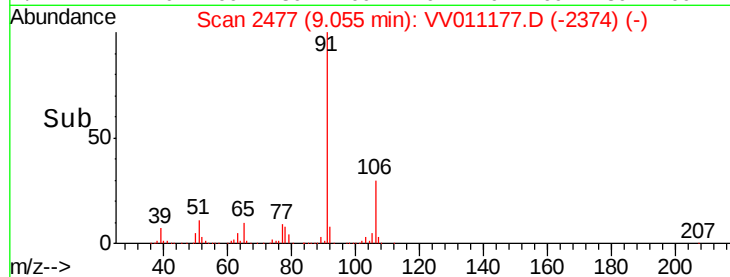
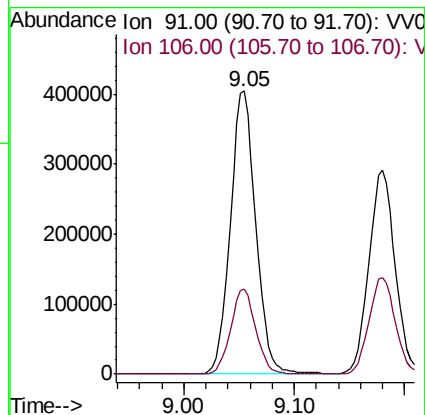
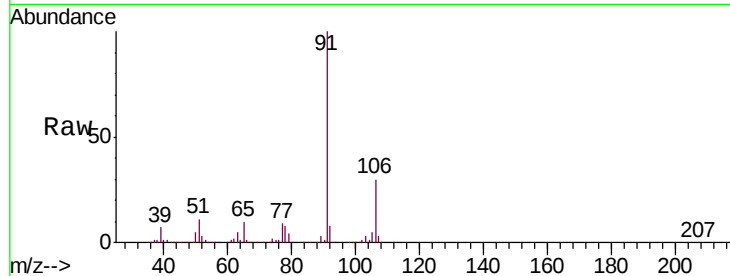
VSTD02581

Tgt Ion: 91 Resp: 648487

Ion Ratio Lower Upper

91 100

106 30.0 21.2 39.4



#54

m,p-Xylene

Concen: 22.179 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV011177.D

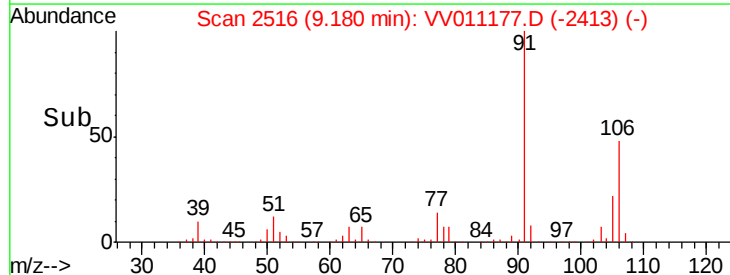
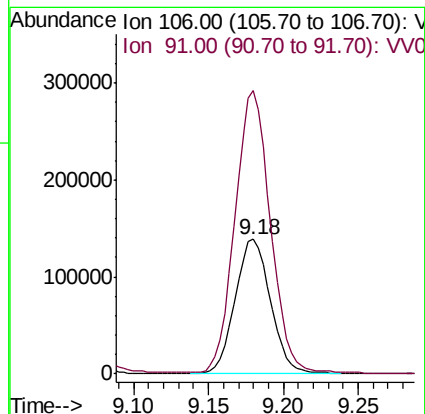
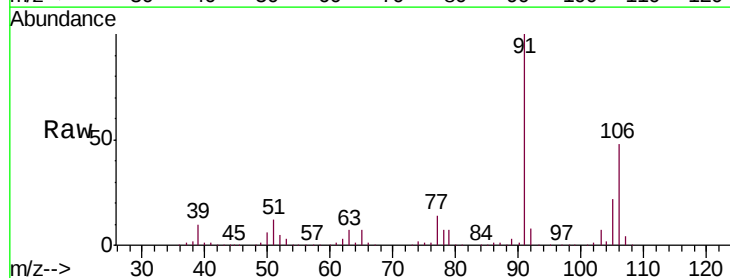
Acq: 31 May 2019 13:11

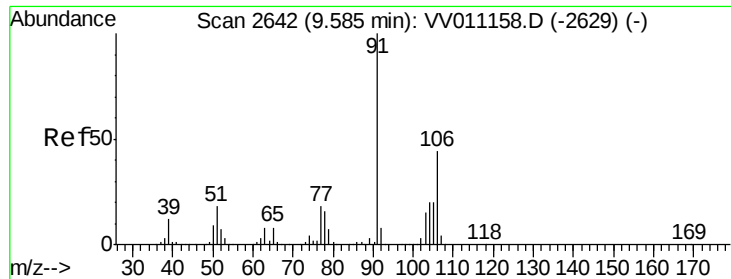
Tgt Ion: 106 Resp: 228163

Ion Ratio Lower Upper

106 100

91 210.5 145.3 269.9





#55

o-xylene

Concen: 22.609 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. -0.00 min

Lab File: VV011177.D

Acq: 31 May 2019 13:11

Instrument :

MSVOA_V

ClientSampleId :

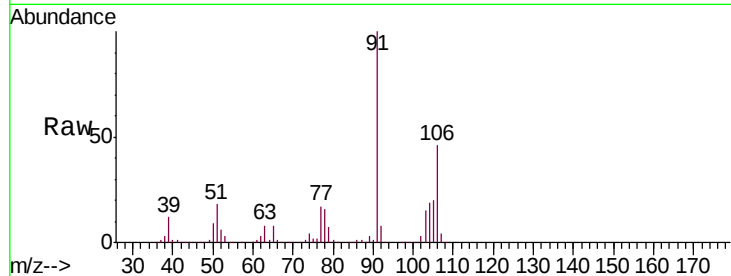
VSTD02581

Tgt Ion:106 Resp: 228747

Ion Ratio Lower Upper

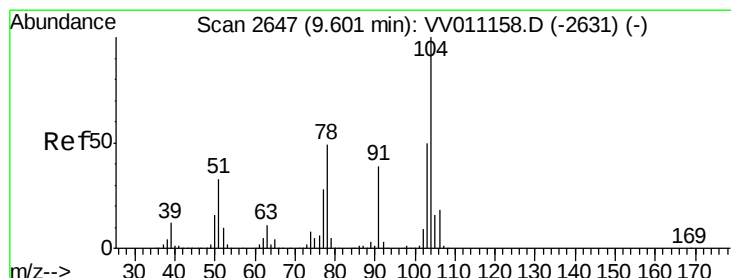
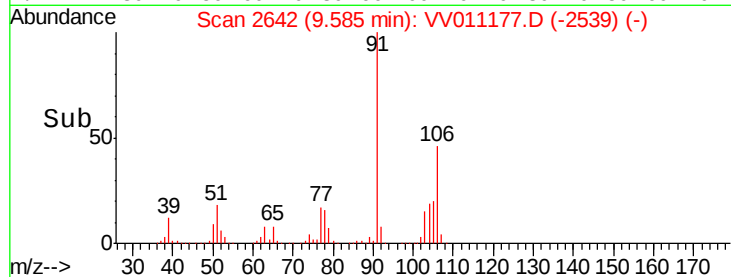
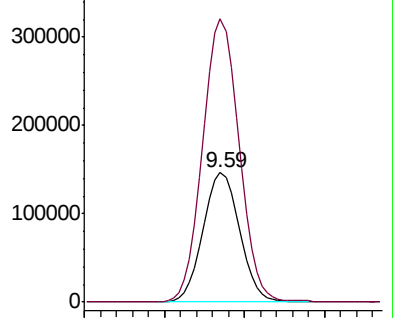
106 100

91 218.7 156.4 290.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 22.690 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. -0.00 min

Lab File: VV011177.D

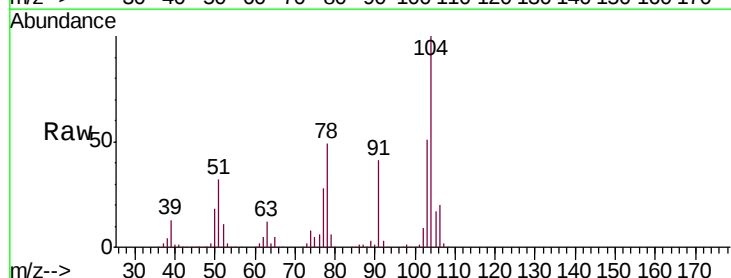
Acq: 31 May 2019 13:11

Tgt Ion:104 Resp: 385604

Ion Ratio Lower Upper

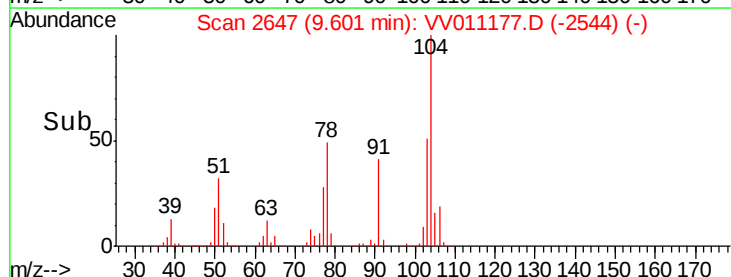
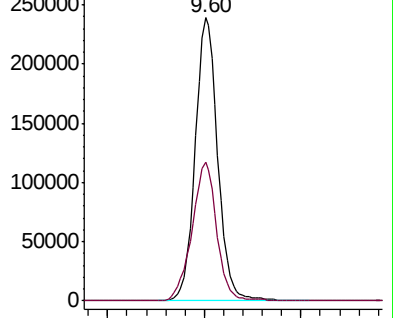
104 100

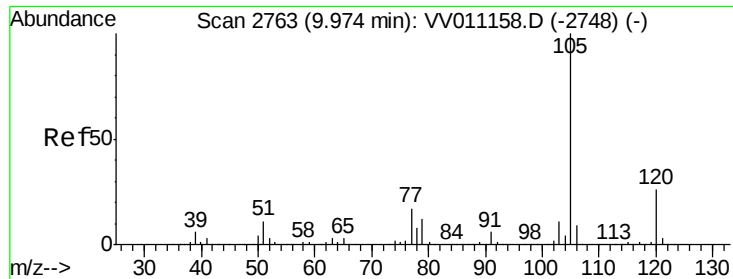
78 49.0 32.3 60.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 23.079 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV011177.D

Acq: 31 May 2019 13:11

Instrument :

MSVOA_V

ClientSampleId :

VSTD02581

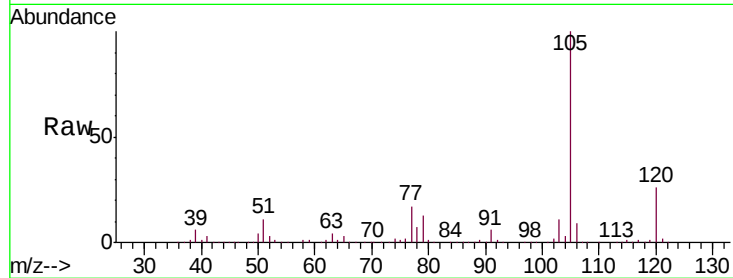
Tgt Ion:105 Resp: 623495

Ion Ratio Lower Upper

105 100

120 25.8 20.6 31.0

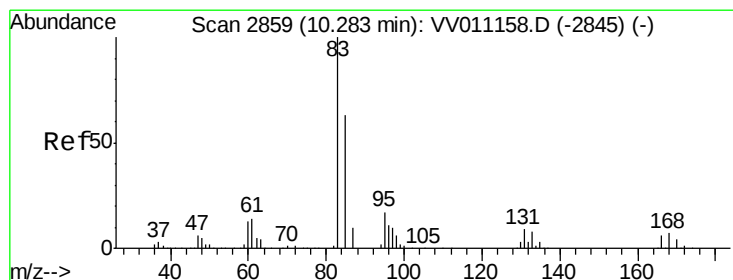
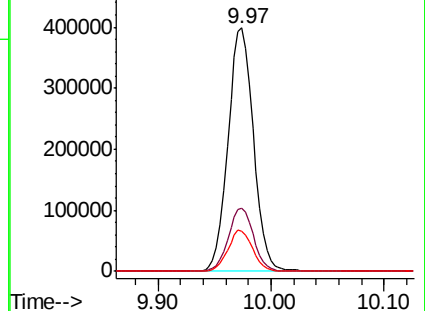
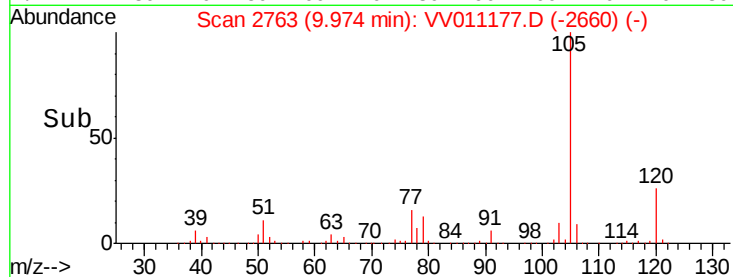
77 16.6 13.3 19.9



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: 22.526 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV011177.D

Acq: 31 May 2019 13:11

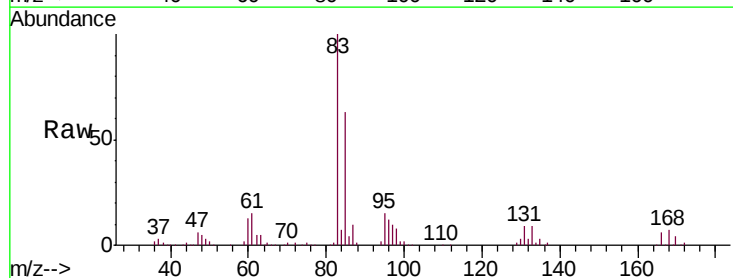
Tgt Ion: 83 Resp: 138589

Ion Ratio Lower Upper

83 100

85 63.3 44.4 82.4

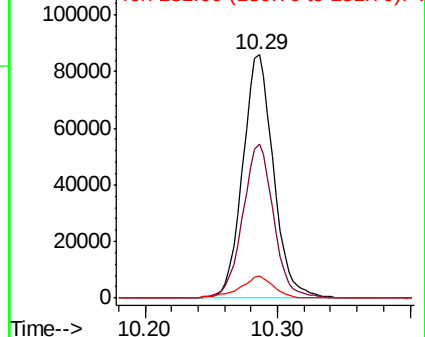
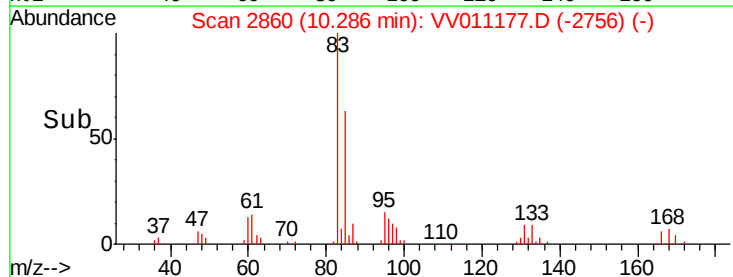
131 8.9 7.5 11.3

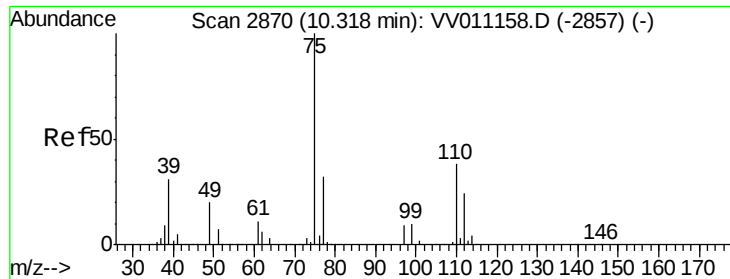


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 22.872 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. -0.00 min

Lab File: VV011177.D

Acq: 31 May 2019 13:11

Instrument :

MSVOA_V

ClientSampleId :

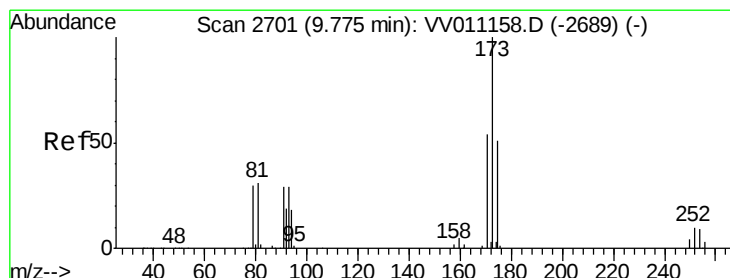
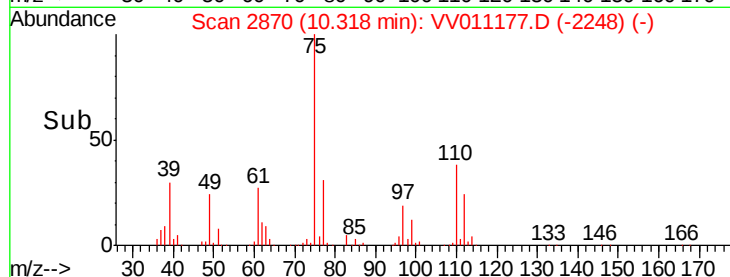
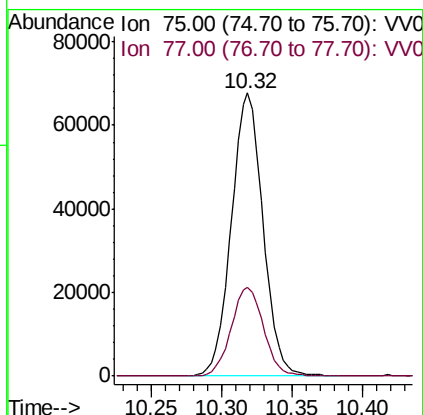
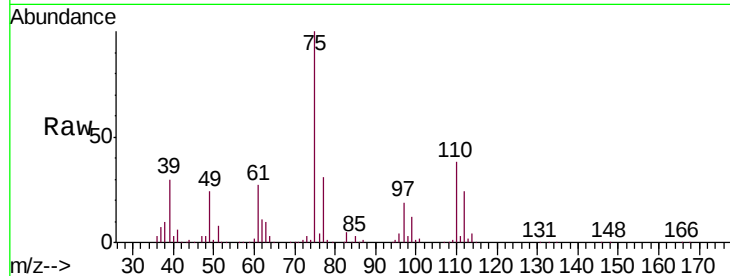
VSTD02581

Tgt Ion: 75 Resp: 106403

Ion Ratio Lower Upper

75 100

77 31.6 25.7 38.5



#62

Bromoform

Concen: 24.044 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VV011177.D

Acq: 31 May 2019 13:11

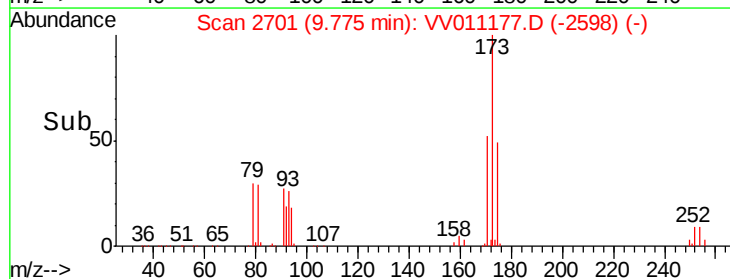
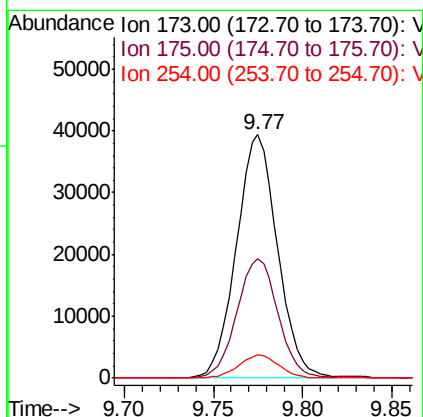
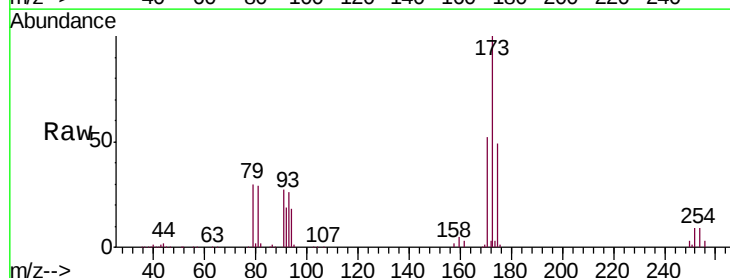
Tgt Ion: 173 Resp: 63359

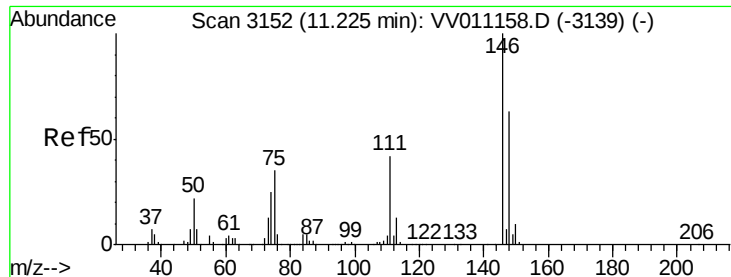
Ion Ratio Lower Upper

173 100

175 49.1 38.1 57.1

254 9.2 6.9 10.3

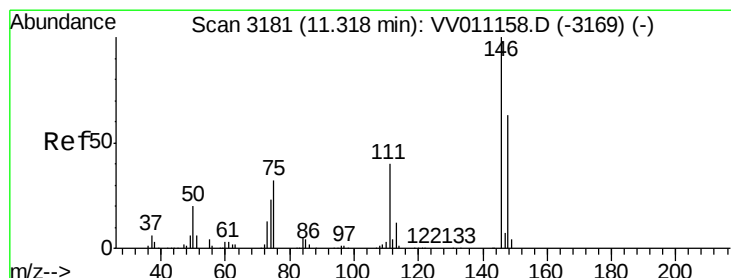
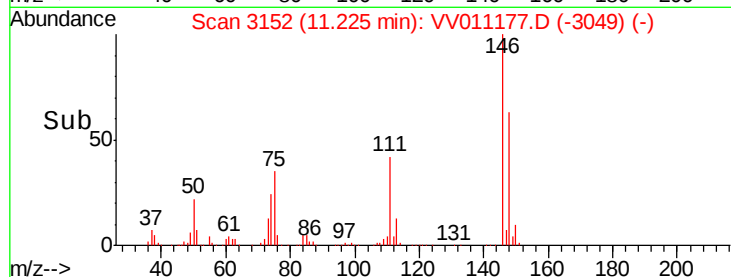
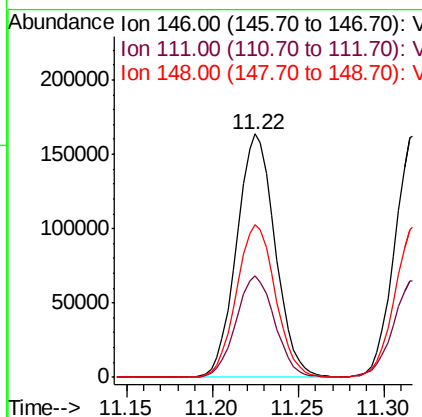
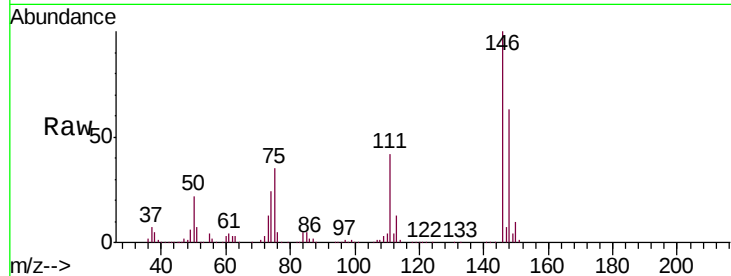




#63
 1,3-Dichlorobenzene
 Concen: 23.351 ug/L
 RT: 11.22 min Scan# 3152
 Delta R.T. -0.00 min
 Lab File: VV011177.D
 Acq: 31 May 2019 13:11

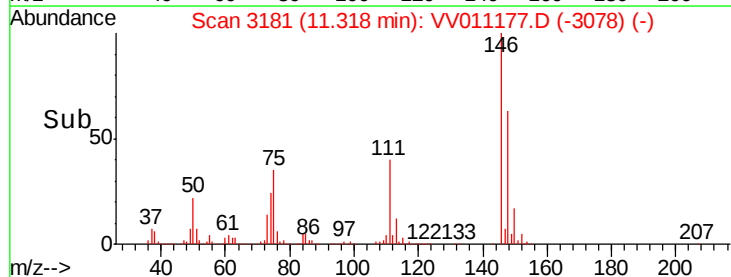
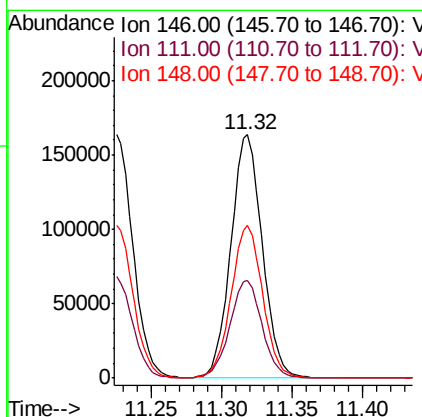
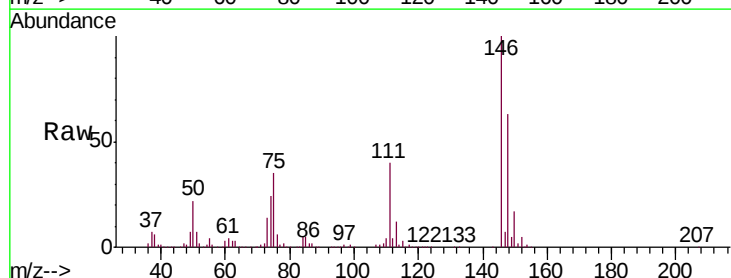
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02581

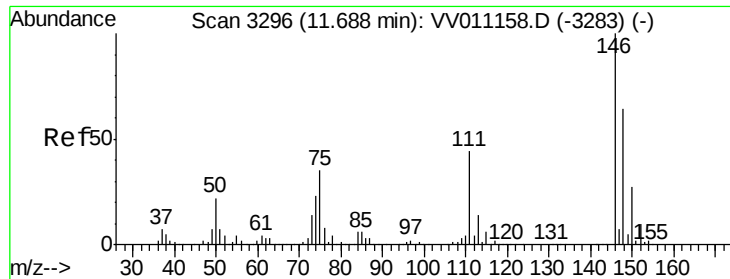
Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.5	29.9	55.5
148	62.7	45.4	84.2



#64
 1,4-Dichlorobenzene
 Concen: 23.011 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: VV011177.D
 Acq: 31 May 2019 13:11

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.0	27.4	51.0
148	62.7	43.7	81.1





#65

1,2-Dichlorobenzene

Concen: 23.192 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV011177.D

Acq: 31 May 2019 13:11

Instrument :

MSVOA_V

ClientSampled :

VSTD02581

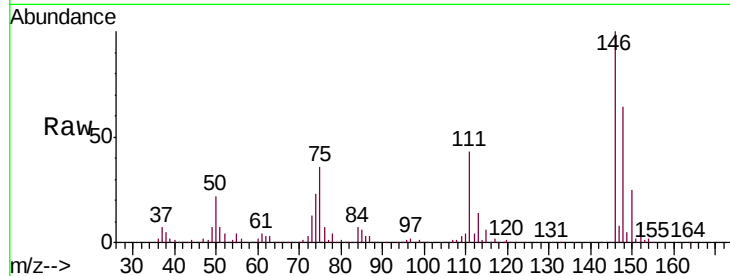
Tgt Ion:146 Resp: 240428

Ion Ratio Lower Upper

146 100

111 42.5 34.8 52.2

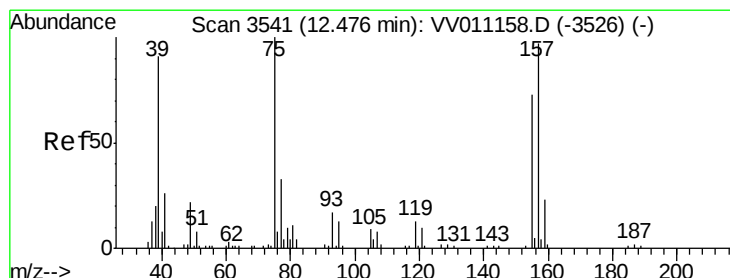
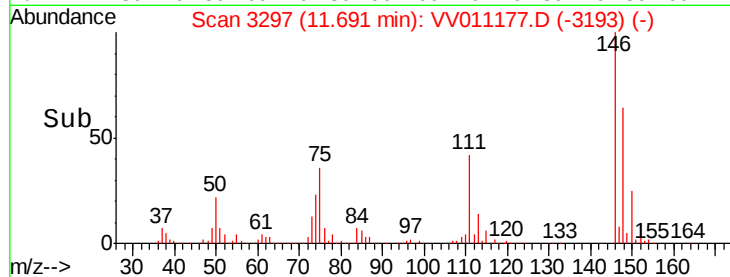
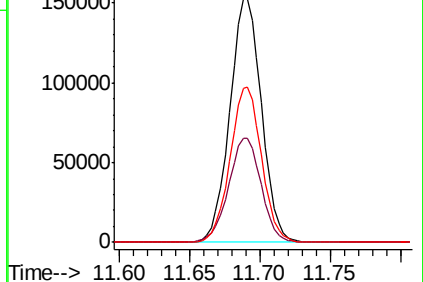
148 63.9 51.0 76.6



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: 21.348 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. -0.00 min

Lab File: VV011177.D

Acq: 31 May 2019 13:11

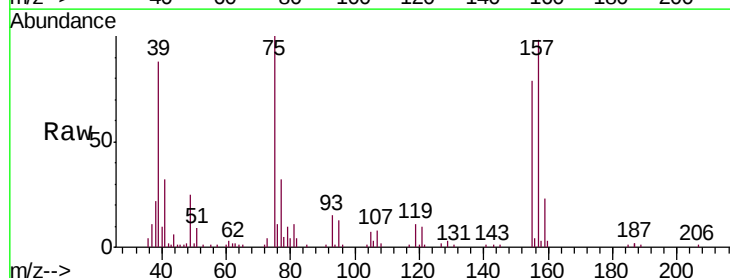
Tgt Ion: 75 Resp: 21473

Ion Ratio Lower Upper

75 100

157 98.1 79.6 119.4

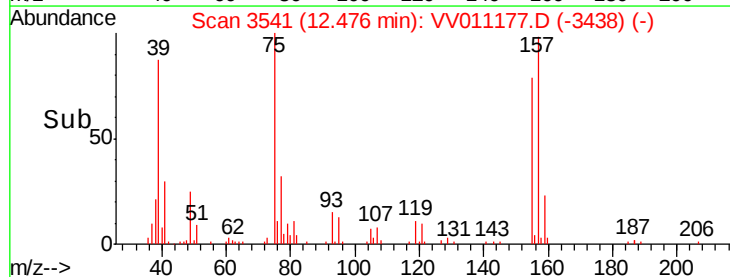
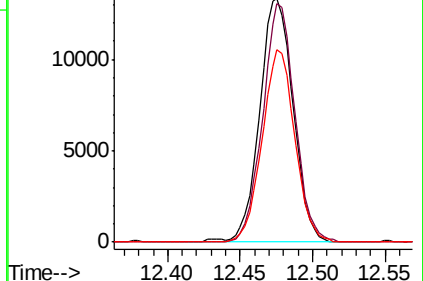
155 79.0 62.4 93.6

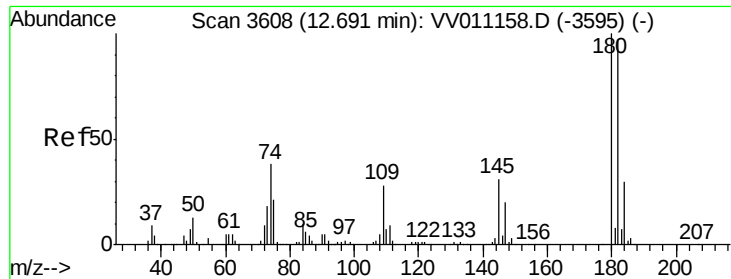


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

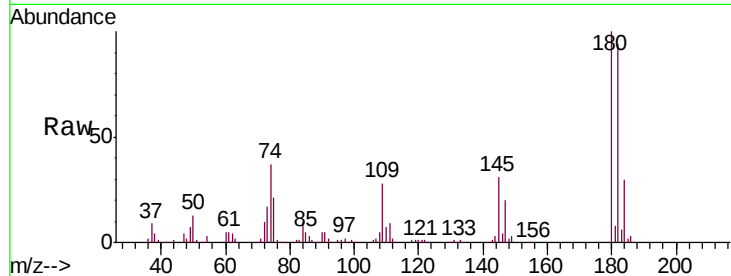




#67
 1,3,5-Trichlorobenzene
 Concen: 22.935 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. -0.00 min
 Lab File: VV011177.D
 Acq: 31 May 2019 13:11

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02581

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.4	75.3	112.9
184	29.7	24.3	36.5
145	30.7	24.2	36.4



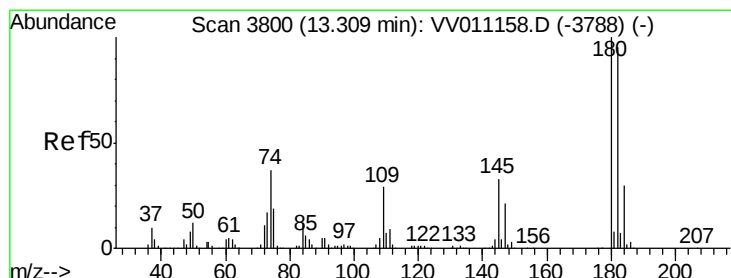
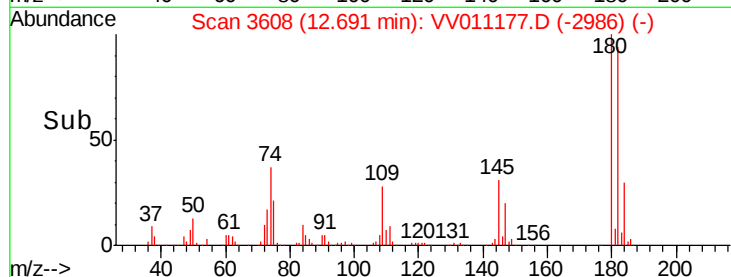
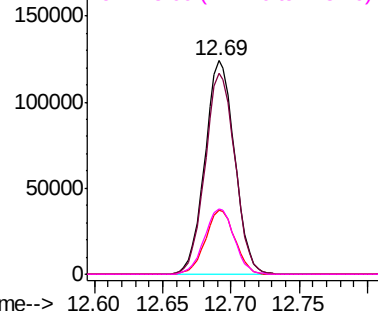
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

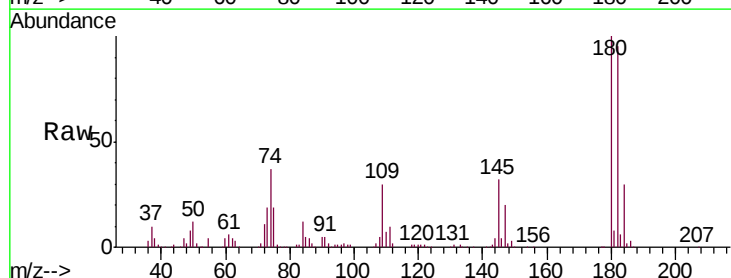
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 22.679 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. -0.00 min
 Lab File: VV011177.D
 Acq: 31 May 2019 13:11

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.0	75.4	113.0
145	32.5	25.7	38.5

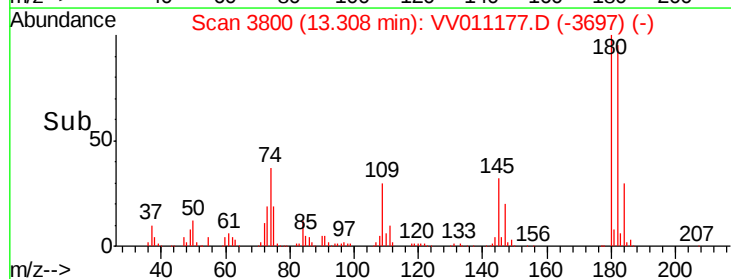
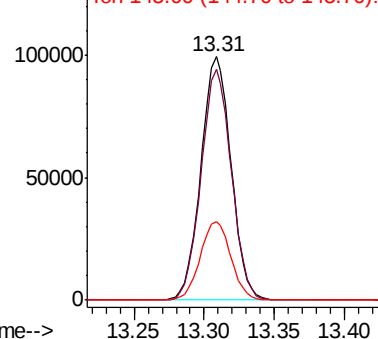


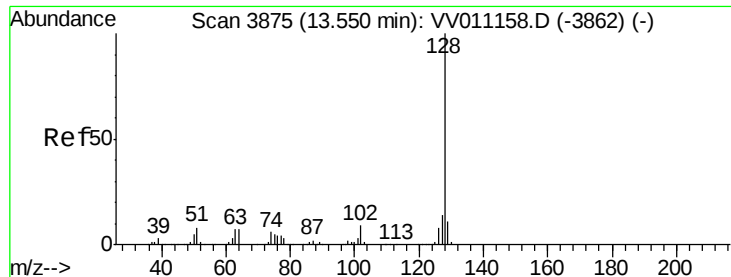
Abundance

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: 23.532 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. -0.00 min

Lab File: VV011177.D

Acq: 31 May 2019 13:11

Instrument :

MSVOA_V

ClientSampleId :

VSTD02581

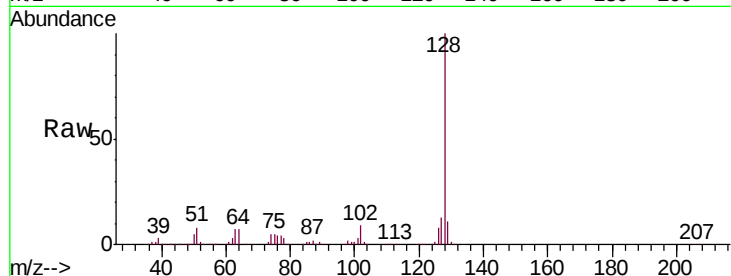
Tgt Ion:128 Resp: 317723

Ion Ratio Lower Upper

128 100

129 11.0 8.6 13.0

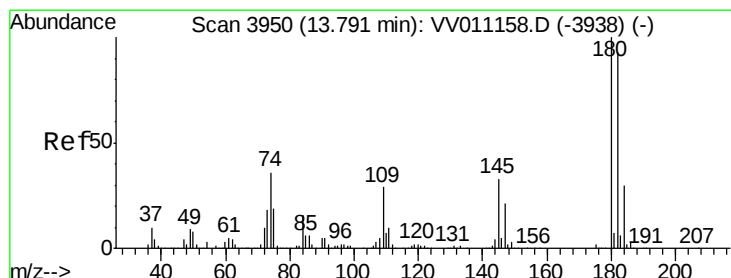
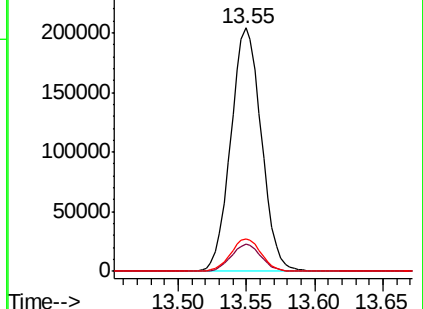
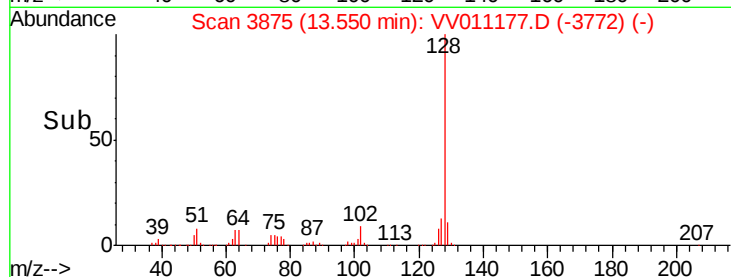
127 13.4 10.6 16.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 22.848 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV011177.D

Acq: 31 May 2019 13:11

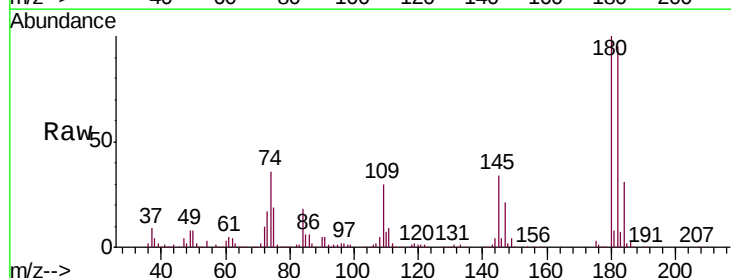
Tgt Ion:180 Resp: 139173

Ion Ratio Lower Upper

180 100

182 95.5 77.4 116.0

145 34.1 27.5 41.3



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

