

Data File : VV011545.D
Acq On : 17 Jun 2019 09:52
Operator : SY/MD
Sample : VSTDCCC005
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
BFB49

Quant Time: Jun 18 08:41:14 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061419WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Jun 17 04:48:06 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	212616	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	197792	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	90456	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	62433	3.89	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	77.80%
7) Chloroethane-d5	1.58	69	48268	4.74	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.80%
11) 1,1-Dichloroethene-d2	2.12	63	129384	4.23	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	84.60%
20) 2-Butanone-d5	3.96	46	187552	41.52	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	83.04%
24) Chloroform-d	4.39	84	135726	4.40	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.00%
26) 1,2-Dichloroethane-d4	5.08	65	71583	4.20	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.00%
32) Benzene-d6	5.09	84	250869	4.25	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.00%
36) 1,2-Dichloropropane-d6	6.11	67	78442	4.19	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	83.80%
41) Toluene-d8	7.36	98	228450	4.34	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.80%
43) trans-1,3-Dichloropropene-	7.66	79	28366	4.55	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.00%
46) 2-Hexanone-d5	8.14	63	149264	41.50	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	83.00%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	56516	4.02	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	80.40%
64) 1,2-Dichlorobenzene-d4	11.67	152	78574	4.35	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	87.00%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	99954	5.270 ug/L	98
3) Chloromethane	1.25	50	92518	4.503 ug/L	100
5) Vinyl chloride	1.32	62	92106	4.539 ug/L	100
6) Bromomethane	1.53	94	39943	4.708 ug/L	99
8) Chloroethane	1.60	64	53480	5.443 ug/L	100
9) Trichlorofluoromethane	1.75	101	116893	5.230 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	67433	5.282 ug/L	99
12) 1,1-Dichloroethene	2.13	96	61025	4.615 ug/L	93
13) Acetone	2.22	43	121416	39.886 ug/L	99
14) Carbon disulfide	2.30	76	164860	4.612 ug/L	100
15) Methyl Acetate	2.47	43	33194	4.113 ug/L	99
16) Methylene chloride	2.52	84	66348	4.415 ug/L	97
17) Methyl tert-butyl Ether	2.81	73	169991	4.287 ug/L	98
18) trans-1,2-Dichloroethene	2.78	96	72356	4.840 ug/L	96
19) 1,1-Dichloroethane	3.22	63	145860	4.716 ug/L	98
21) 2-Butanone	4.05	43	200996	41.735 ug/L	99
22) cis-1,2-Dichloroethene	3.96	96	77342	4.566 ug/L	98

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Instrument :
MSVOA_V
ClientSampleId :
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Quant Time: Jun 18 08:41:14 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061419WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Jun 17 04:48:06 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	30407	4.567	ug/L	94
25) Chloroform	4.42	83	147999	4.768	ug/L	100
27) 1,2-Dichloroethane	5.17	62	95281	4.355	ug/L	99
29) 1,1,1-Trichloroethane	4.65	97	126598	5.144	ug/L	97
30) Cyclohexane	4.71	56	132120	5.197	ug/L	100
31) Carbon tetrachloride	4.87	117	106078	5.327	ug/L	99
33) Benzene	5.14	78	310833	4.811	ug/L	100
34) Trichloroethene	5.95	95	81507	4.947	ug/L	98
35) Methylcyclohexane	6.17	83	131616	5.603	ug/L	99
37) 1,2-Dichloropropane	6.22	63	77972	4.534	ug/L	100
38) Bromodichloromethane	6.55	83	92393	4.729	ug/L	99
39) cis-1,3-Dichloropropene	7.07	75	107723	4.976	ug/L	92
40) 4-Methyl-2-pentanone	7.28	43	516266	42.114	ug/L	99
42) Toluene	7.43	91	329815	4.927	ug/L	100
44) trans-1,3-Dichloropropene	7.69	75	83787	5.060	ug/L	100
45) 1,1,2-Trichloroethane	7.88	97	50474	4.397	ug/L	98
47) Tetrachloroethene	8.02	164	60286	5.131	ug/L	94
48) 2-Hexanone	8.19	43	362429	42.056	ug/L	100
49) Dibromochloromethane	8.29	129	54017	4.683	ug/L	98
50) 1,2-Dibromoethane	8.40	107	45537	4.386	ug/L	98
51) Chlorobenzene	8.92	112	200244	4.870	ug/L	98
52) Ethylbenzene	9.05	91	363456	5.169	ug/L	99
53) m,p-xylene	9.18	106	133443	5.186	ug/L	99
54) o-xylene	9.59	106	131457	5.086	ug/L	100
55) Styrene	9.60	104	220292	5.139	ug/L	97
56) Isopropylbenzene	9.97	105	355371	5.402	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	57136	4.070	ug/L	98
59) 1,2,3-Trichloropropane	10.32	75	45950	4.280	ug/L	100
61) Bromoform	9.78	173	25048	4.343	ug/L	99
62) 1,3-Dichlorobenzene	11.23	146	145655	4.966	ug/L	99
63) 1,4-Dichlorobenzene	11.32	146	144269	4.828	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	136595	4.627	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	8185	3.818	ug/L	93
67) 1,3,5-Trichlorobenzene	12.69	180	109359	5.105	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	80268	4.666	ug/L	99
69) Naphthalene	13.55	128	130695	3.864	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	75322	4.515	ug/L	99

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

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Sample : VSTDCCC005

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```
ALS Vial      : 1      Sample Multiplier: 1
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Instrument :
MSVOA_V
ClientSampleId :
BFB49

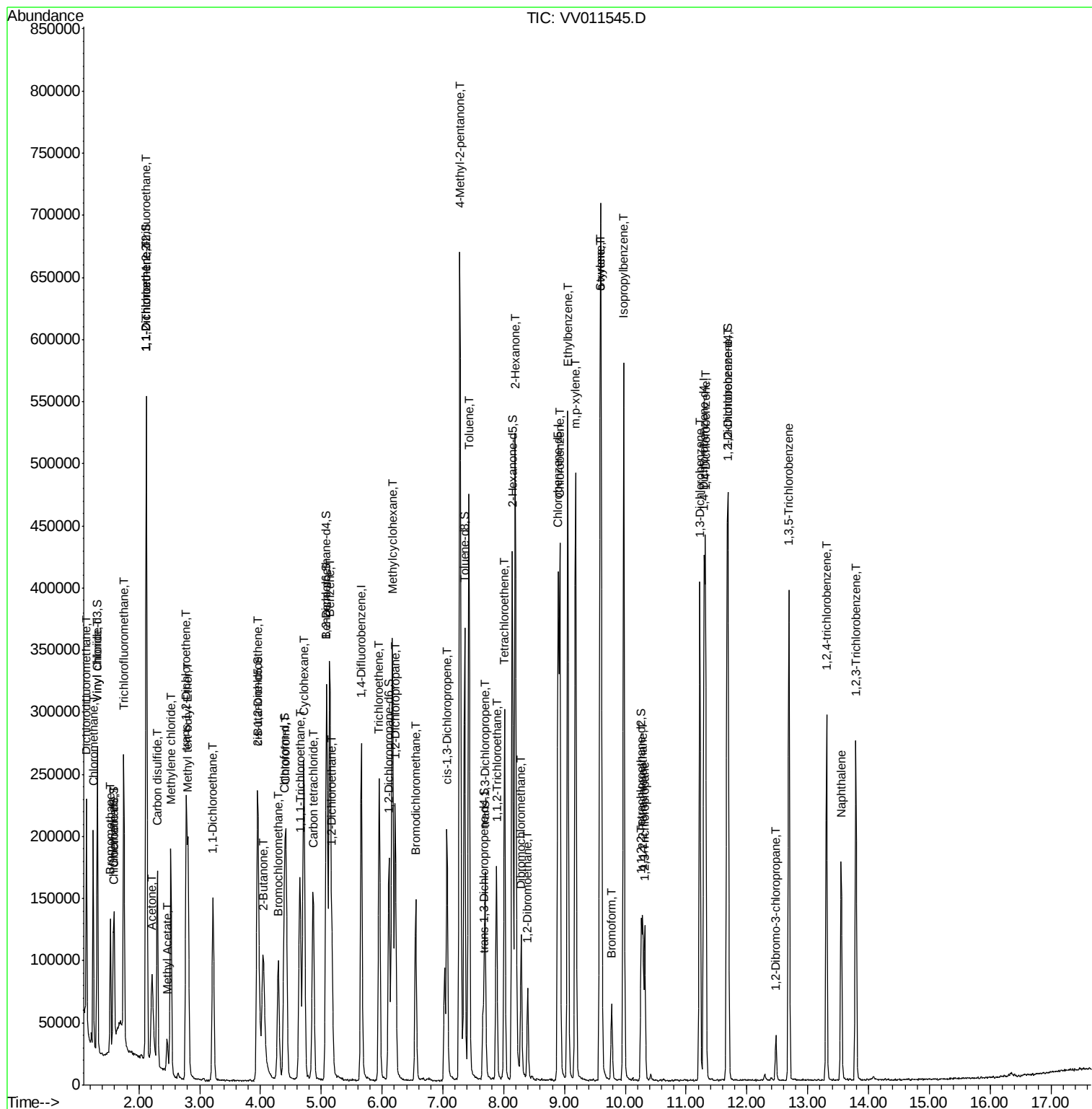
Quant Time: Jun 18 08:41:14 2019

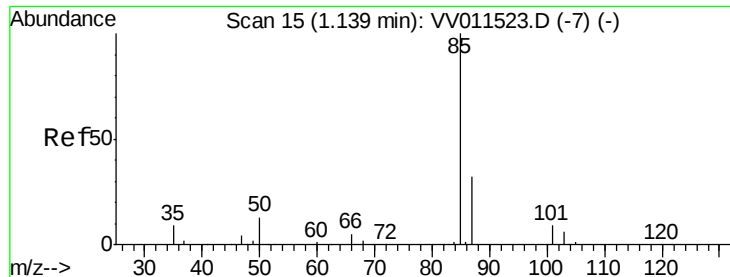
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\SOMVTR061419WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Mon Jun 17 04:48:06 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 5.270 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV011545.D

Acq: 17 Jun 2019 09:52

Instrument :

MSVOA_V

ClientSampleId :

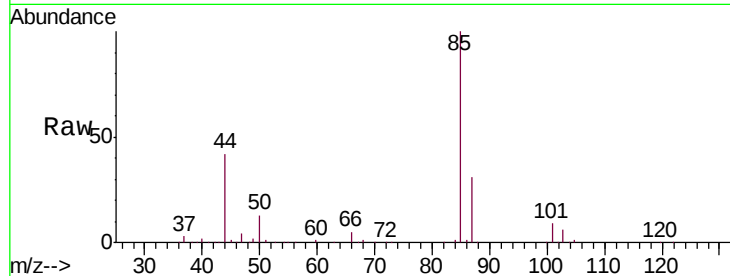
BFB49

Tgt Ion: 85 Resp: 99954

Ion Ratio Lower Upper

85 100

87 31.1 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VV011523.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VV011523.D (-7) (-)

120000

100000

80000

60000

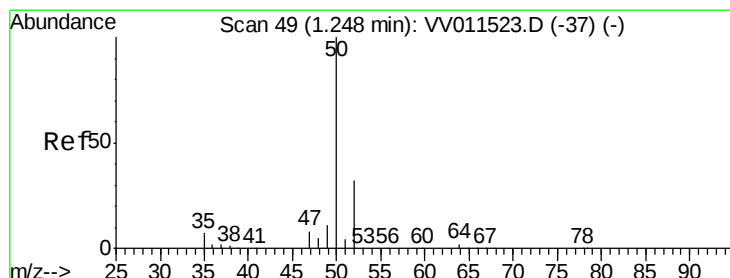
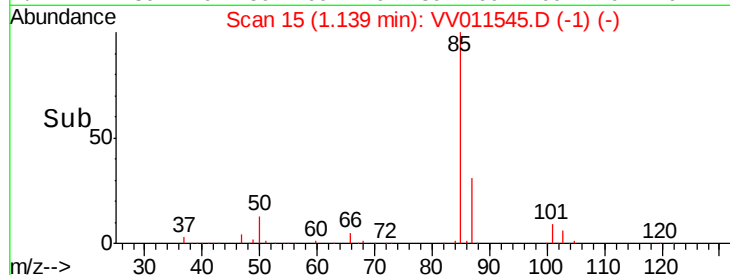
40000

20000

0

1.10 1.15 1.20 1.25

Time-->



#3

Chloromethane

Concen: 4.503 ug/L

RT: 1.25 min Scan# 49

Delta R.T. 0.00 min

Lab File: VV011545.D

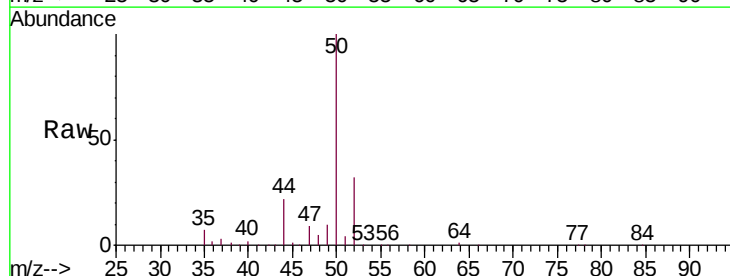
Acq: 17 Jun 2019 09:52

Tgt Ion: 50 Resp: 92518

Ion Ratio Lower Upper

50 100

52 32.5 22.7 42.1



Abundance Ion 50.05 (49.75 to 50.75): VV011523.D (-37) (-)

Ion 52.05 (51.75 to 52.75): VV011523.D (-37) (-)

120000

100000

80000

60000

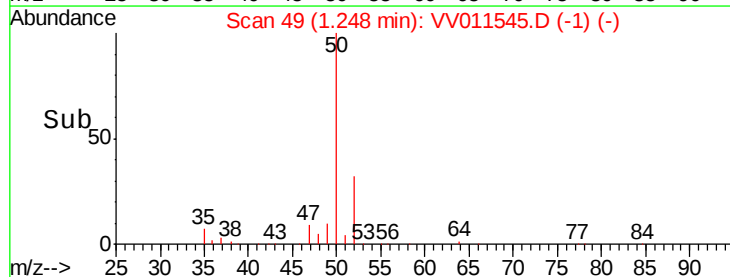
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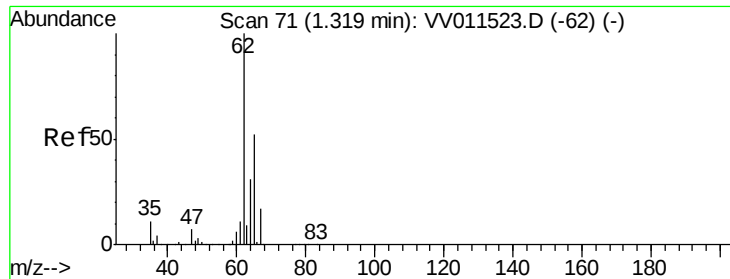
20000

0

1.20 1.25 1.30

Time-->





#5

Vinyl chloride

Concen: 4.539 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV011545.D

Acq: 17 Jun 2019 09:52

Instrument :

MSVOA_V

ClientSampleId :

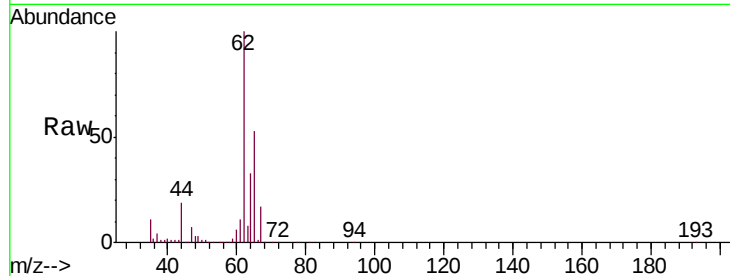
BFB49

Tgt Ion: 62 Resp: 92106

Ion Ratio Lower Upper

62 100

64 33.0 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VV011523.D (-62) (-)

Ion 64.10 (63.80 to 64.80): VV011523.D (-62) (-)

1.32

100000

80000

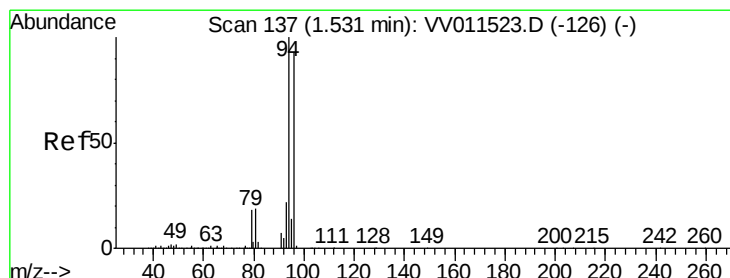
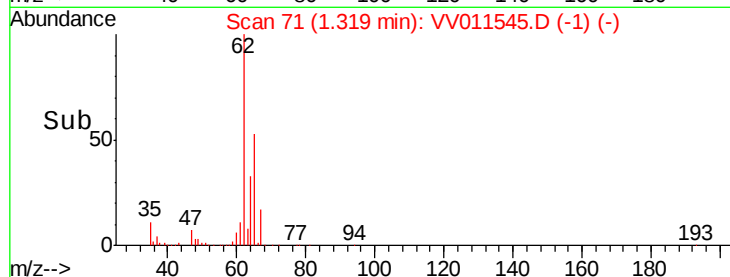
60000

40000

20000

0

Time--> 1.25 1.30 1.35 1.40



#6

Bromomethane

Concen: 4.708 ug/L

RT: 1.53 min Scan# 137

Delta R.T. 0.00 min

Lab File: VV011545.D

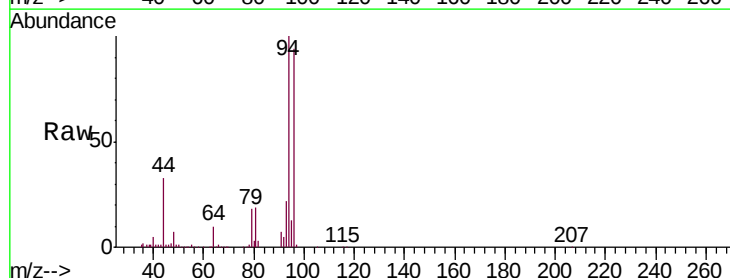
Acq: 17 Jun 2019 09:52

Tgt Ion: 94 Resp: 39943

Ion Ratio Lower Upper

94 100

96 94.2 65.5 121.7



Abundance Ion 94.00 (93.70 to 94.70): VV011523.D (-126) (-)

Ion 96.00 (95.70 to 96.70): VV011523.D (-126) (-)

1.53

40000

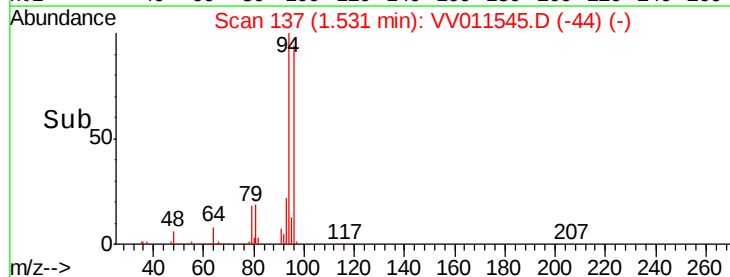
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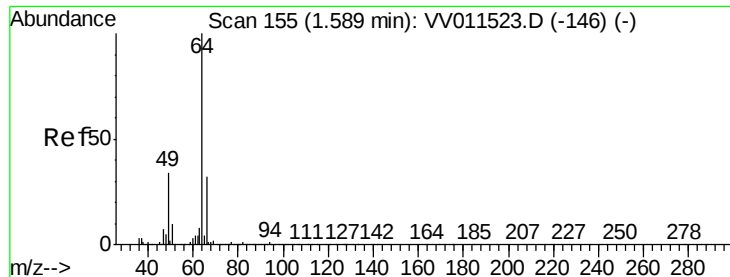
20000

10000

0

Time--> 1.45 1.50 1.55 1.60





#8

Chloroethane

Concen: 5.443 ug/L

RT: 1.60 min Scan# 157

Delta R.T. 0.01 min

Lab File: VV011545.D

Acq: 17 Jun 2019 09:52

Instrument :

MSVOA_V

ClientSampleId :

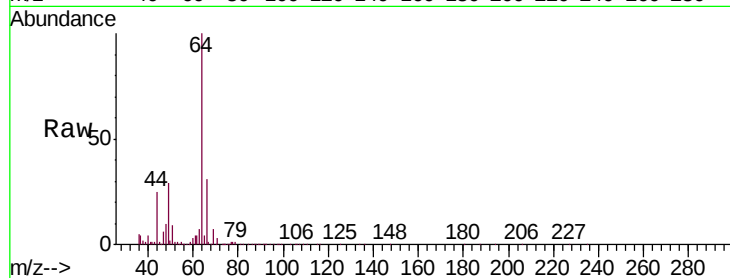
BFB49

Tgt Ion: 64 Resp: 53480

Ion Ratio Lower Upper

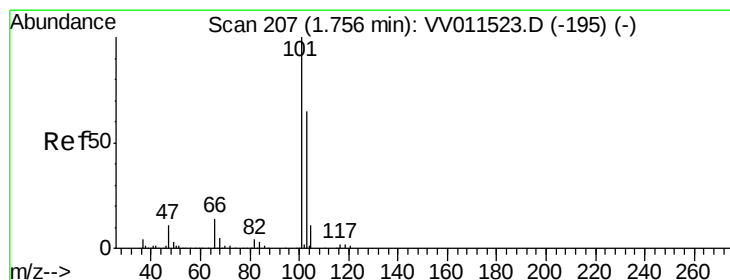
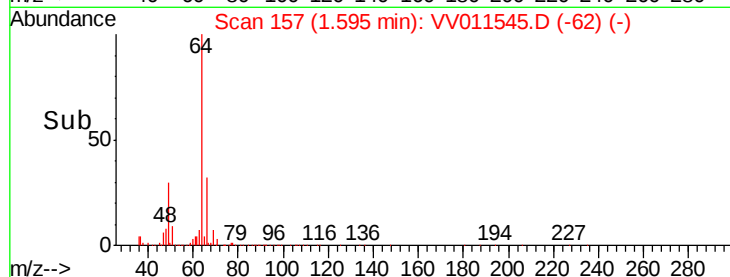
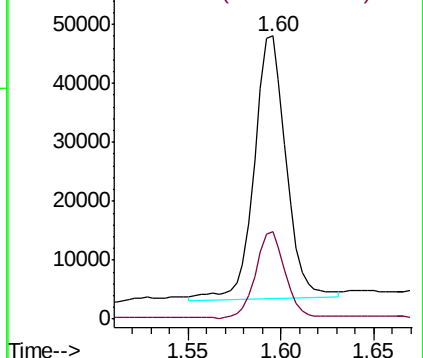
64 100

66 30.8 21.6 40.2



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0



#9

Trichlorofluoromethane

Concen: 5.230 ug/L

RT: 1.75 min Scan# 206

Delta R.T. -0.00 min

Lab File: VV011545.D

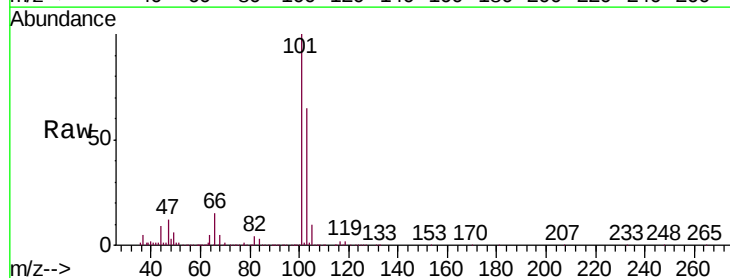
Acq: 17 Jun 2019 09:52

Tgt Ion: 101 Resp: 116893

Ion Ratio Lower Upper

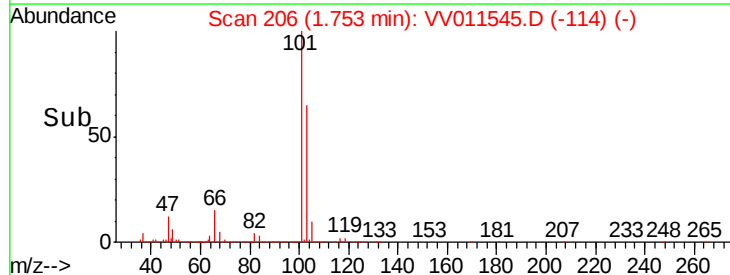
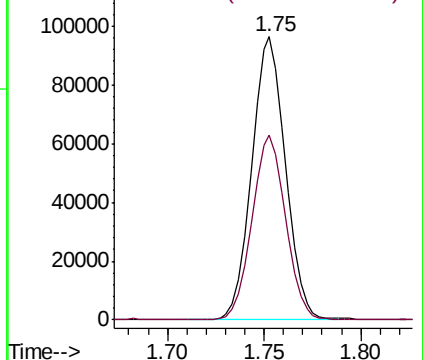
101 100

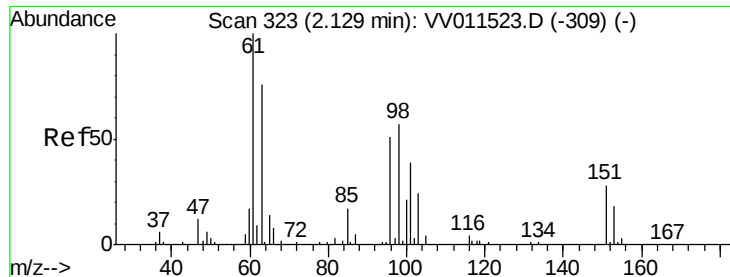
103 64.9 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#10

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

Concen: 5.282 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV011545.D

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ClientSampleId :

BFB49

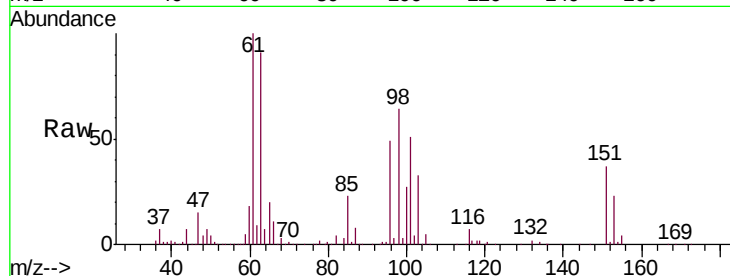
Tgt Ion: 101 Resp: 67433

Ion Ratio Lower Upper

101 100

85 45.7 37.3 55.9

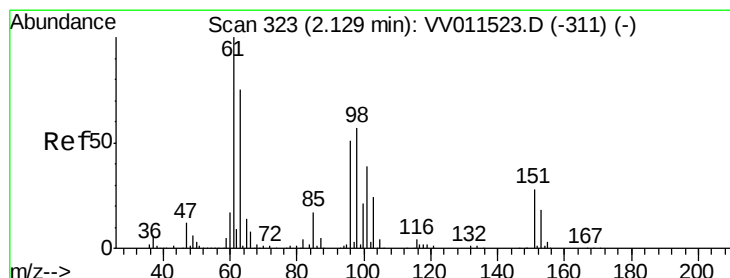
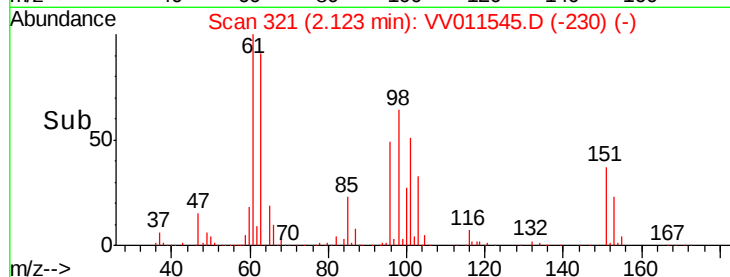
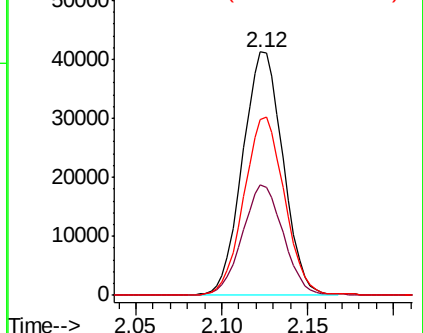
151 73.7 59.4 89.2



Abundance Ion 101.00 (100.70 to 101.70): VV011523.D (-309) (-)

Ion 85.00 (84.70 to 85.70): VV011523.D (-309) (-)

Ion 151.00 (150.70 to 151.70): VV011523.D (-309) (-)



#12

1,1-Dichloroethene

Concen: 4.615 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.00 min

Lab File: VV011545.D

Acq: 17 Jun 2019 09:52

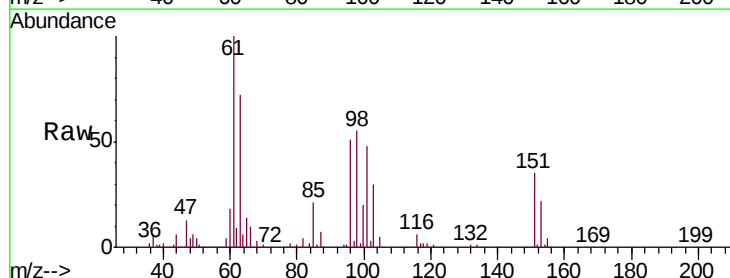
Tgt Ion: 96 Resp: 61025

Ion Ratio Lower Upper

96 100

61 196.7 135.9 252.5

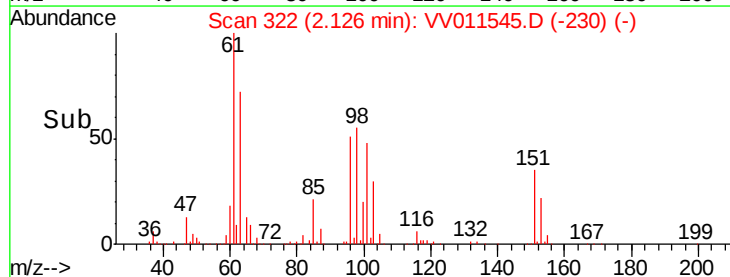
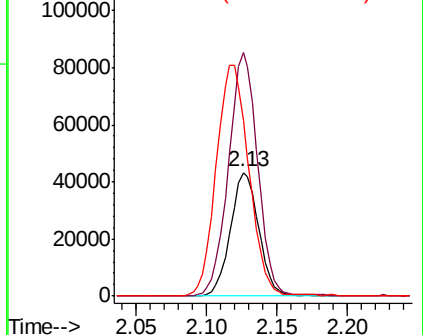
63 142.0 86.2 160.2

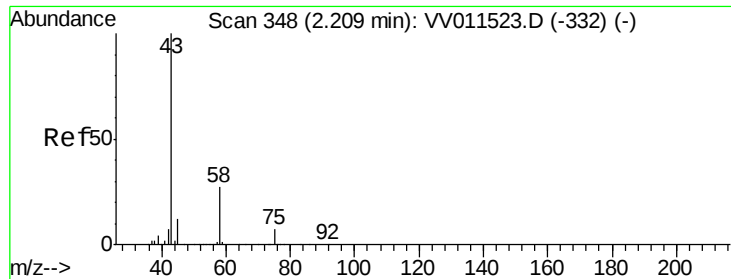


Abundance Ion 96.00 (95.70 to 96.70): VV011523.D (-311) (-)

Ion 61.05 (60.75 to 61.75): VV011523.D (-311) (-)

Ion 63.00 (62.70 to 63.70): VV011523.D (-311) (-)





#13

Acetone

Concen: 39.886 ug/L

RT: 2.22 min Scan# 351

Delta R.T. 0.01 min

Lab File: VV011545.D

Acq: 17 Jun 2019 09:52

Instrument :

MSVOA_V

ClientSampleId :

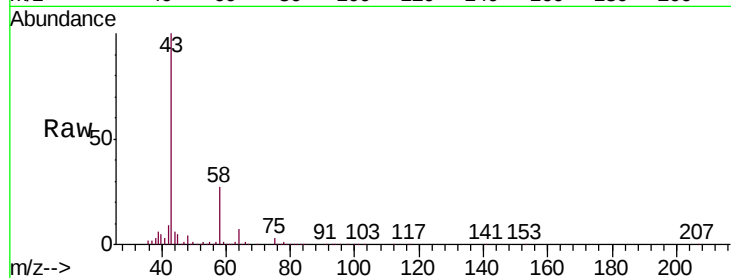
BFB49

Tgt Ion: 43 Resp: 121416

Ion Ratio Lower Upper

43 100

58 28.3 0.0 57.8



Abundance Ion 43.05 (42.75 to 43.75): VV011523.D (-332) (-)

Ion 58.05 (57.75 to 58.75): VV011523.D (-332) (-)

2.22

50000

40000

30000

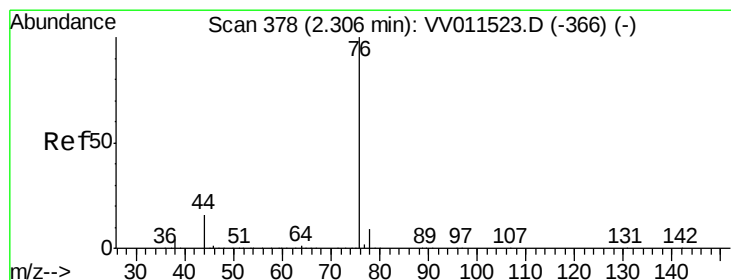
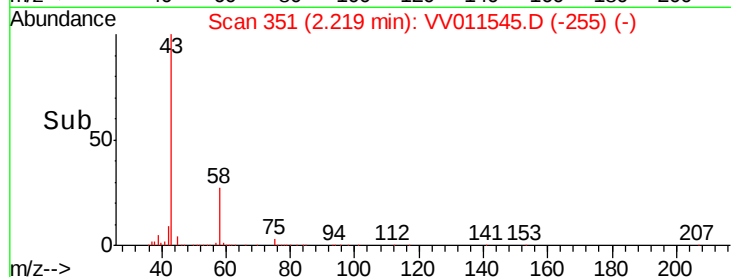
20000

10000

0

Time-->

2.10 2.20 2.30 2.40



#14

Carbon disulfide

Concen: 4.612 ug/L

RT: 2.30 min Scan# 377

Delta R.T. -0.00 min

Lab File: VV011545.D

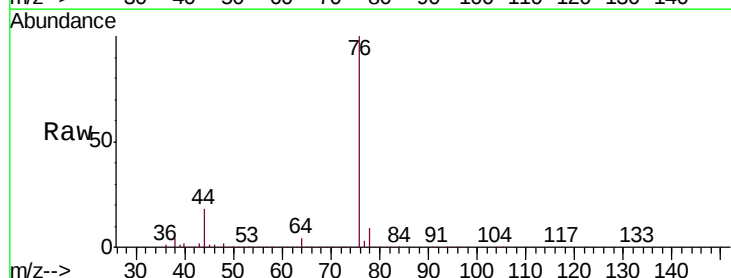
Acq: 17 Jun 2019 09:52

Tgt Ion: 76 Resp: 164860

Ion Ratio Lower Upper

76 100

78 9.3 7.4 11.2



Abundance Ion 76.05 (75.75 to 76.75): VV011523.D (-366) (-)

Ion 78.00 (77.70 to 78.70): VV011523.D (-366) (-)

2.30

120000

100000

80000

60000

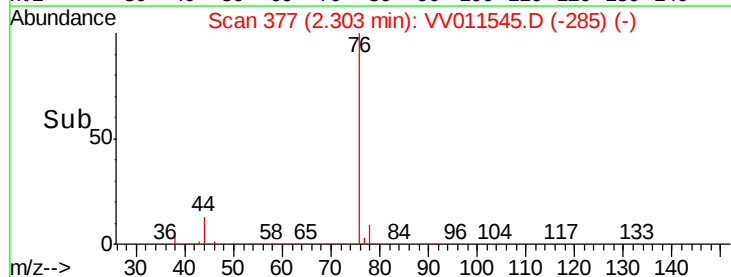
40000

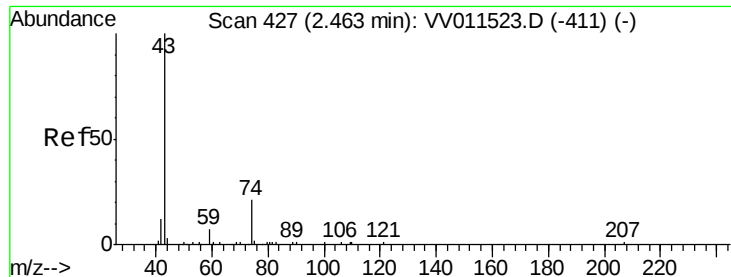
20000

0

Time-->

2.25 2.30 2.35

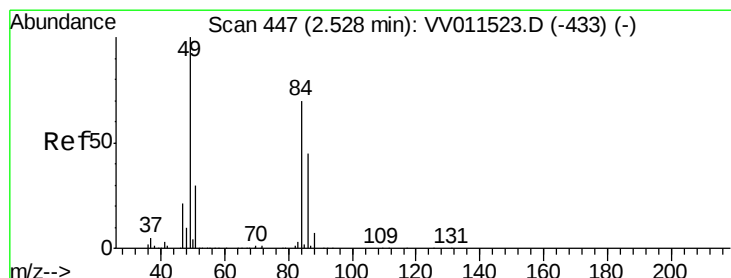
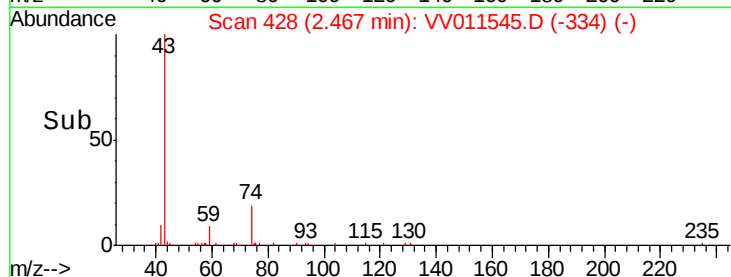
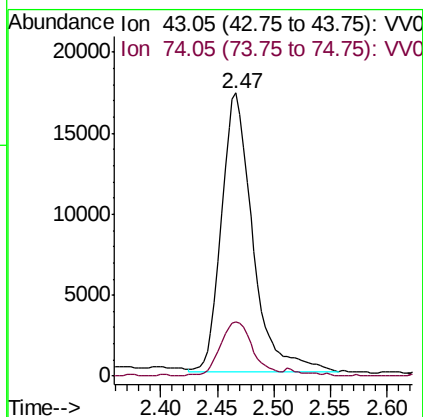
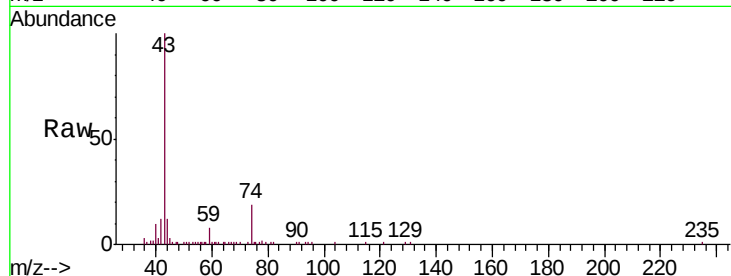




#15
Methyl Acetate
Concen: 4.113 ug/L
RT: 2.47 min Scan# 428
Delta R.T. 0.00 min
Lab File: VV011545.D
Acq: 17 Jun 2019 09:52

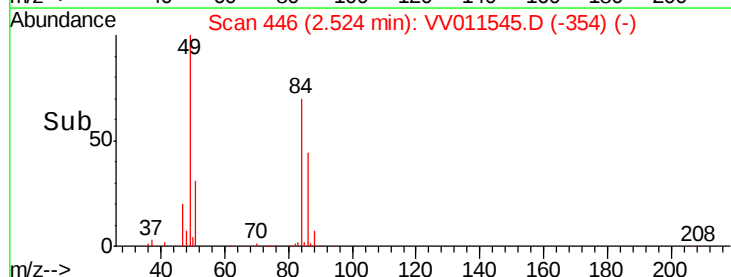
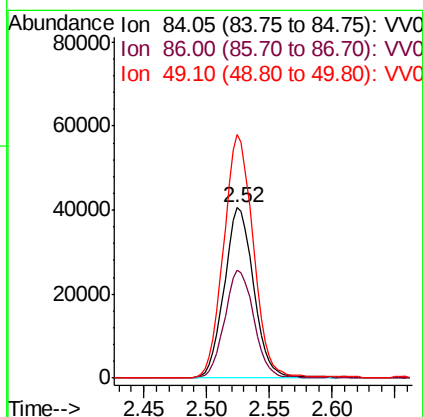
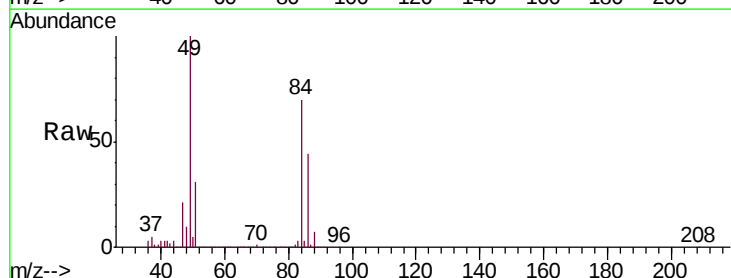
Instrument :
MSVOA_V
ClientSampleId :
BFB49

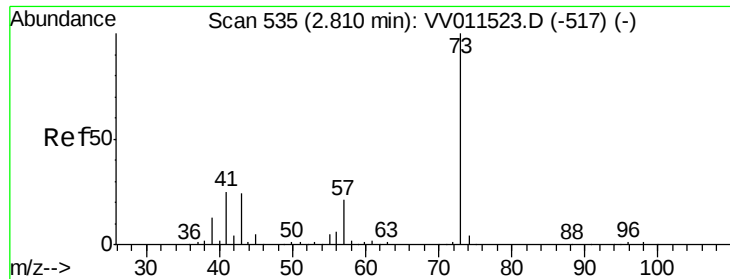
Tgt Ion: 43 Resp: 33194
Ion Ratio Lower Upper
43 100
74 20.3 16.5 24.7



#16
Methylene chloride
Concen: 4.415 ug/L
RT: 2.52 min Scan# 446
Delta R.T. -0.00 min
Lab File: VV011545.D
Acq: 17 Jun 2019 09:52

Tgt Ion: 84 Resp: 66348
Ion Ratio Lower Upper
84 100
86 63.4 42.5 78.9
49 143.0 97.7 181.5





#17

Methyl tert-butyl Ether

Concen: 4.287 ug/L

RT: 2.81 min Scan# 534

Delta R.T. -0.00 min

Lab File: VV011545.D

Acq: 17 Jun 2019 09:52

Instrument :

MSVOA_V

ClientSampleId :

BFB49

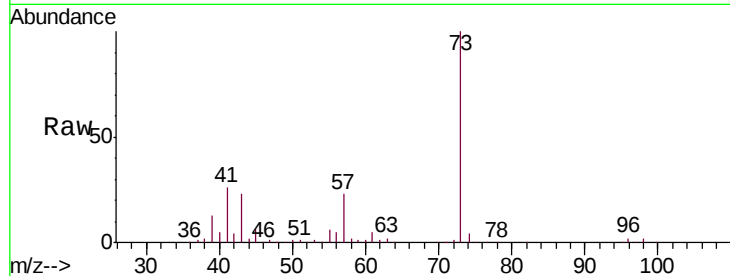
Tgt Ion: 73 Resp: 169991

Ion Ratio Lower Upper

73 100

43 23.6 18.2 27.4

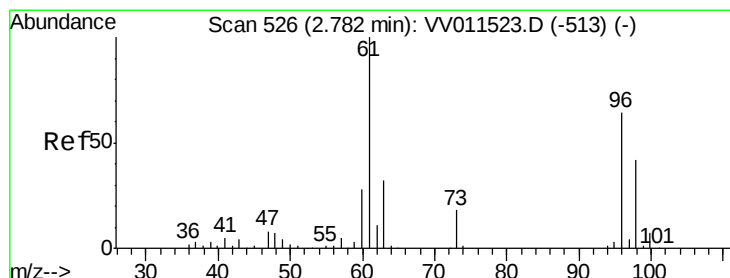
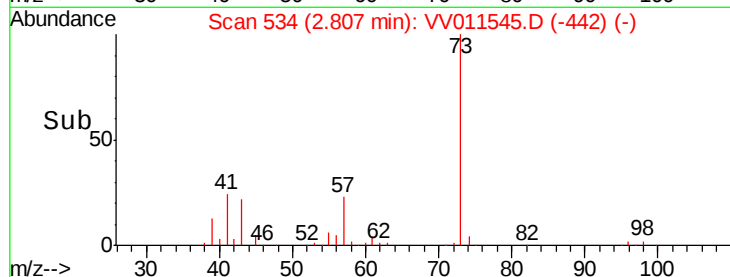
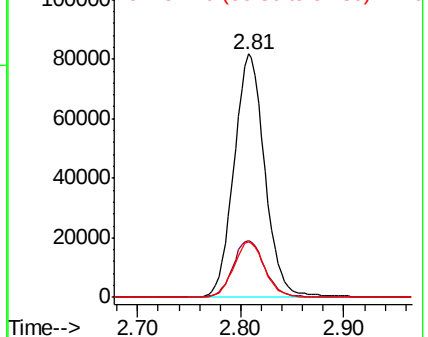
57 23.1 17.4 26.2



Abundance Ion 73.10 (72.80 to 73.80): VV0

Ion 43.05 (42.75 to 43.75): VV0

Ion 57.10 (56.80 to 57.80): VV0



#18

trans-1,2-Dichloroethene

Concen: 4.840 ug/L

RT: 2.78 min Scan# 525

Delta R.T. -0.00 min

Lab File: VV011545.D

Acq: 17 Jun 2019 09:52

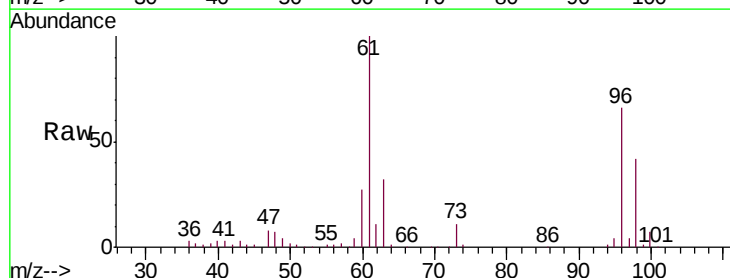
Tgt Ion: 96 Resp: 72356

Ion Ratio Lower Upper

96 100

61 151.5 110.0 204.4

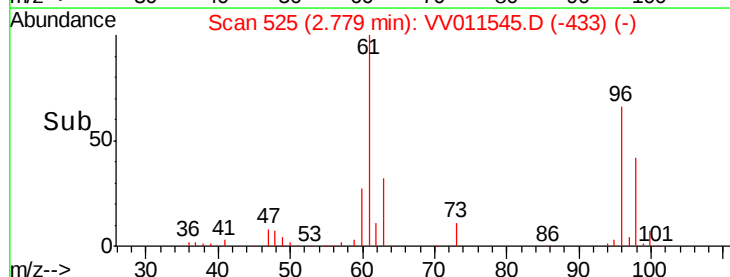
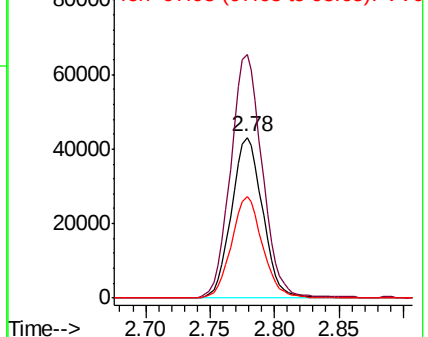
98 63.0 45.8 85.0

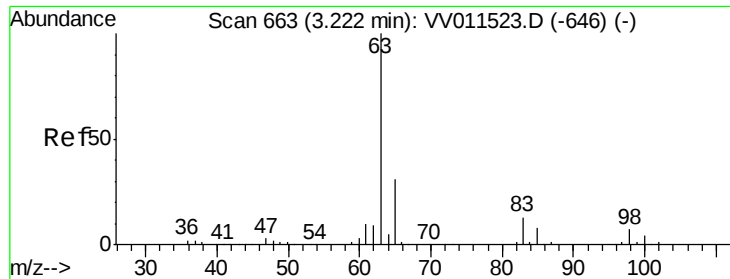


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 97.95 (97.65 to 98.65): VV0

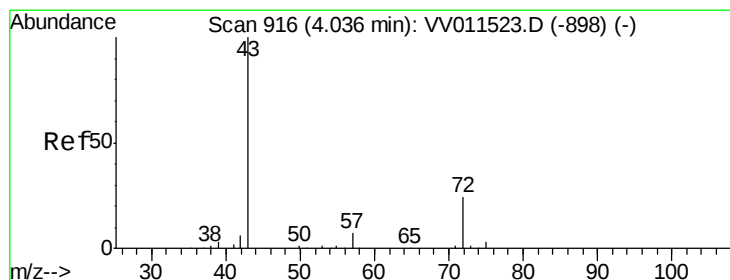
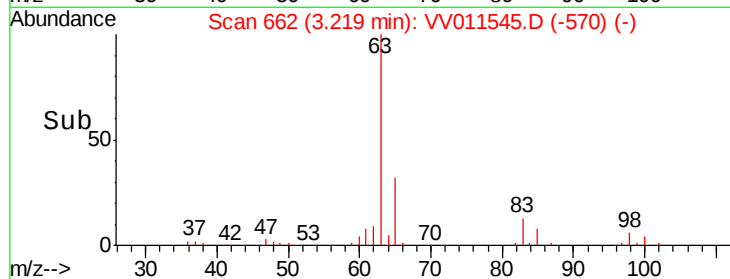
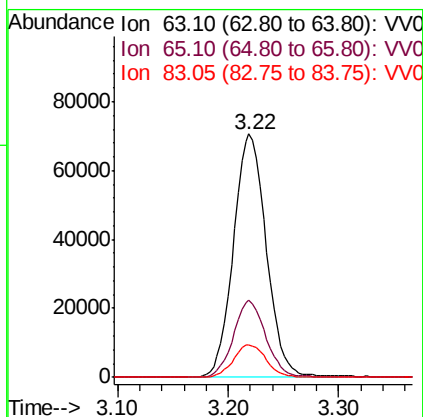
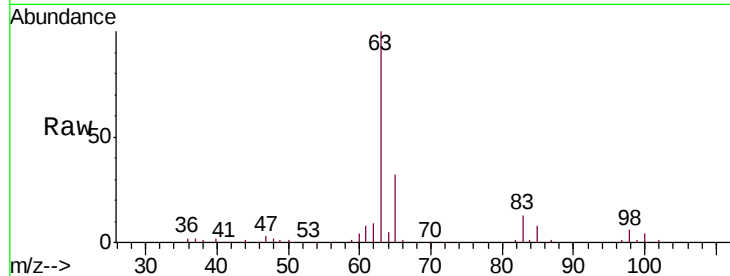




#19
 1,1-Dichloroethane
 Concen: 4.716 ug/L
 RT: 3.22 min Scan# 662
 Delta R.T. -0.00 min
 Lab File: VV011545.D
 Acq: 17 Jun 2019 09:52

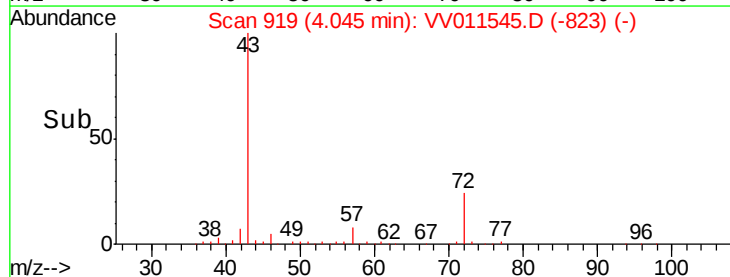
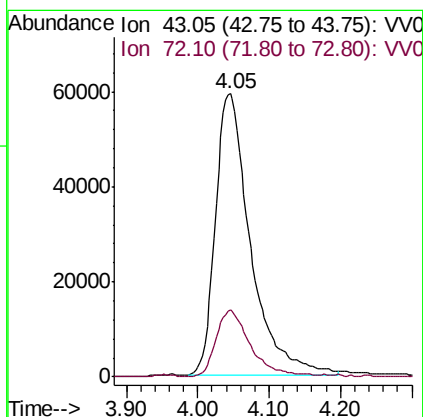
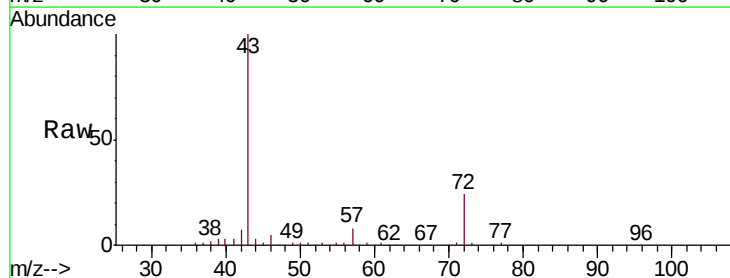
Instrument :
 MSVOA_V
 ClientSampleId :
 BFB49

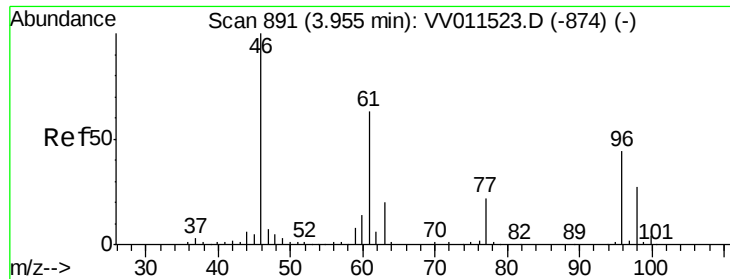
Tgt Ion: 63 Resp: 145860
 Ion Ratio Lower Upper
 63 100
 65 31.5 22.5 41.9
 83 13.5 10.1 18.9



#21
 2-Butanone
 Concen: 41.735 ug/L
 RT: 4.05 min Scan# 919
 Delta R.T. 0.01 min
 Lab File: VV011545.D
 Acq: 17 Jun 2019 09:52

Tgt Ion: 43 Resp: 200996
 Ion Ratio Lower Upper
 43 100
 72 23.1 11.8 35.4



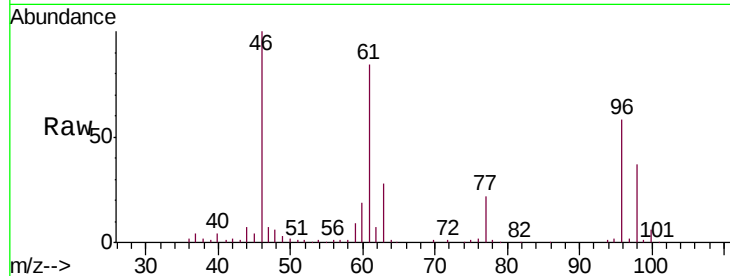


#22

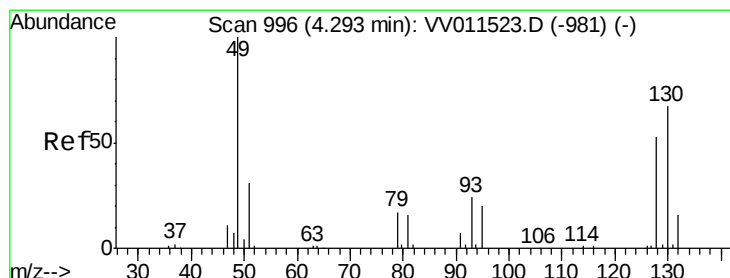
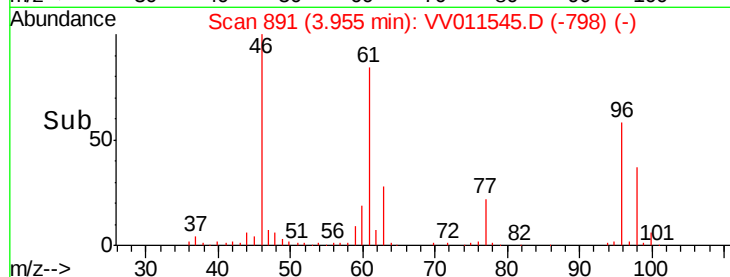
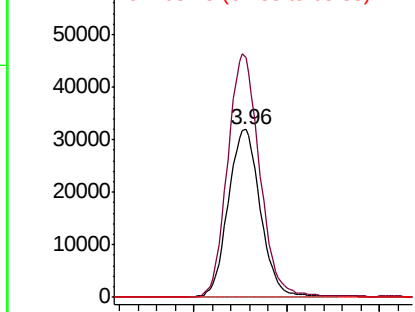
cis-1,2-Dichloroethene
Concen: 4.566 ug/L
RT: 3.96 min Scan# 891
Delta R.T. 0.00 min
Lab File: VV011545.D
Acq: 17 Jun 2019 09:52

Instrument :
MSVOA_V
ClientSampleId :
BFB49

Tgt Ion: 96 Resp: 77342
Ion Ratio Lower Upper
96 100
61 142.9 102.2 189.8
68 0.0 0.0 0.0



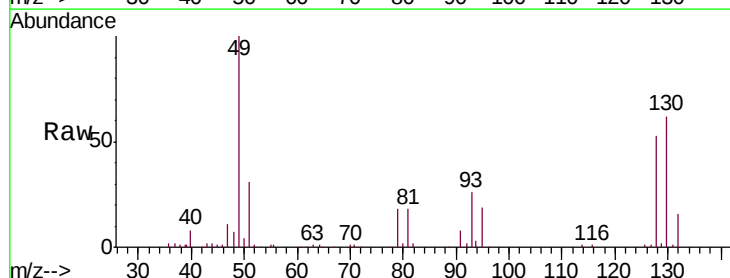
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0



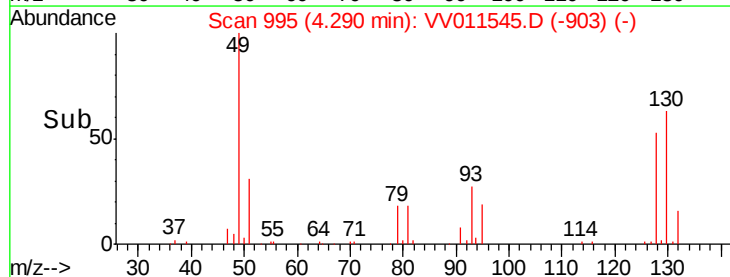
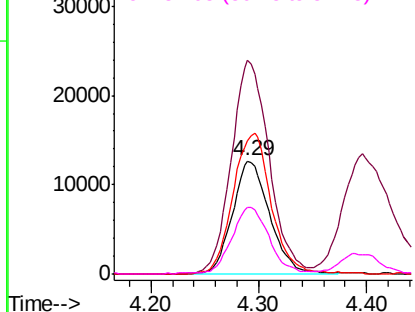
#23

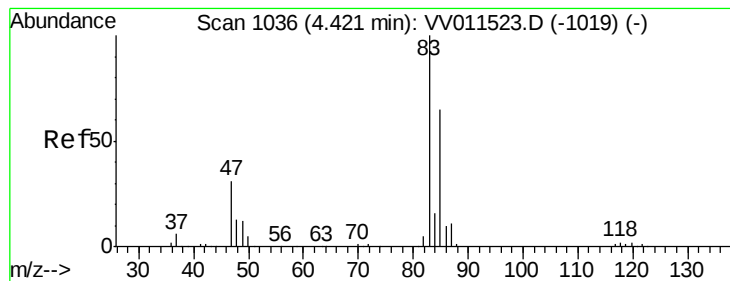
Bromochloromethane
Concen: 4.567 ug/L
RT: 4.29 min Scan# 995
Delta R.T. -0.00 min
Lab File: VV011545.D
Acq: 17 Jun 2019 09:52

Tgt Ion: 128 Resp: 30407
Ion Ratio Lower Upper
128 100
49 189.2 136.2 253.0
130 117.9 91.3 169.5
51 59.5 47.4 71.0



Abundance Ion 127.90 (127.60 to 128.60): V
Ion 49.10 (48.80 to 49.80): VV0
Ion 129.95 (129.65 to 130.65): V
Ion 51.05 (50.75 to 51.75): VV0





#25

Chloroform

Concen: 4.768 ug/L

RT: 4.42 min Scan# 1036

Delta R.T. 0.00 min

Lab File: VV011545.D

Acq: 17 Jun 2019 09:52

Instrument :

MSVOA_V

ClientSampleId :

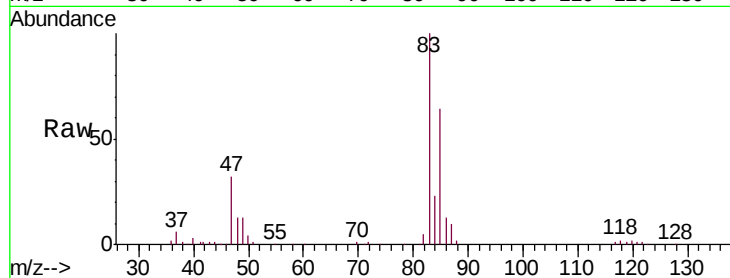
BFB49

Tgt Ion: 83 Resp: 147999

Ion Ratio Lower Upper

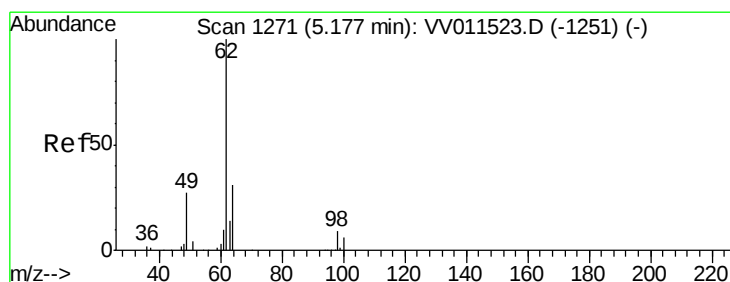
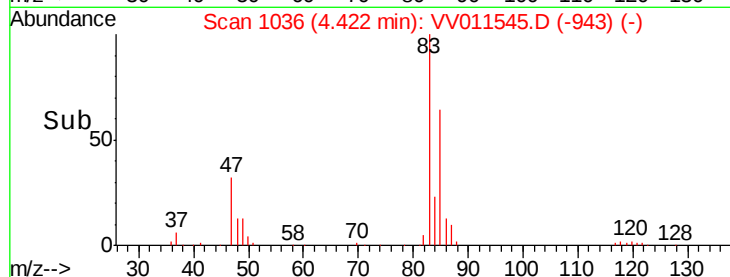
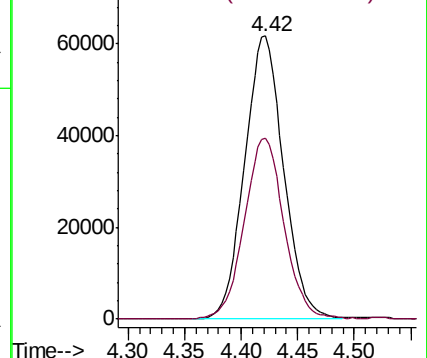
83 100

85 64.0 44.6 82.8



Abundance Ion 83.05 (82.75 to 83.75): VV0

Ion 85.00 (84.70 to 85.70): VV0



#27

1,2-Dichloroethane

Concen: 4.355 ug/L

RT: 5.17 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VV011545.D

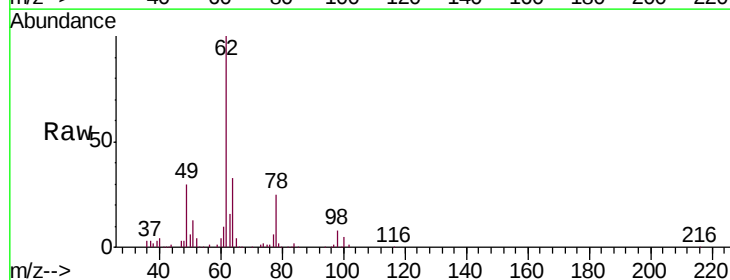
Acq: 17 Jun 2019 09:52

Tgt Ion: 62 Resp: 95281

Ion Ratio Lower Upper

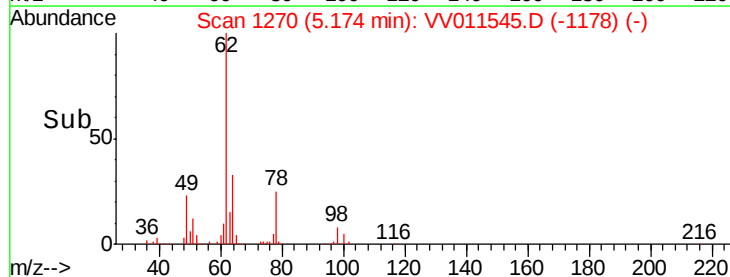
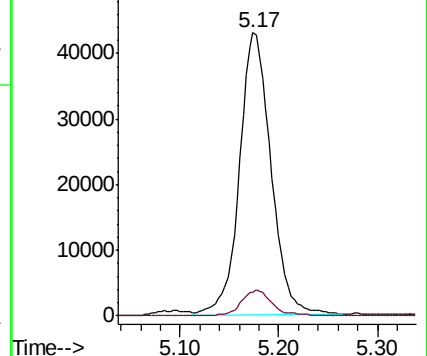
62 100

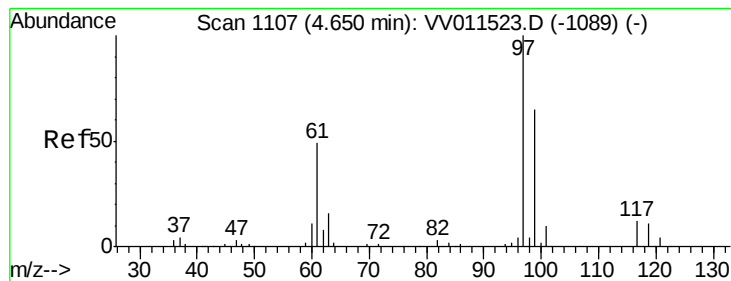
98 8.5 6.5 9.7



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 98.05 (97.75 to 98.75): VV0





#29

1,1,1-Trichloroethane

Concen: 5.144 ug/L

RT: 4.65 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VV011545.D

Acq: 17 Jun 2019 09:52

Instrument :

MSVOA_V

ClientSampleId :

BFB49

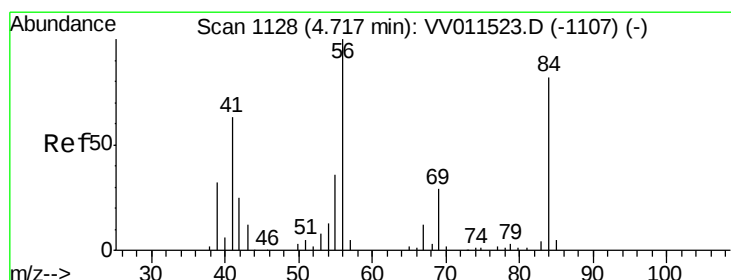
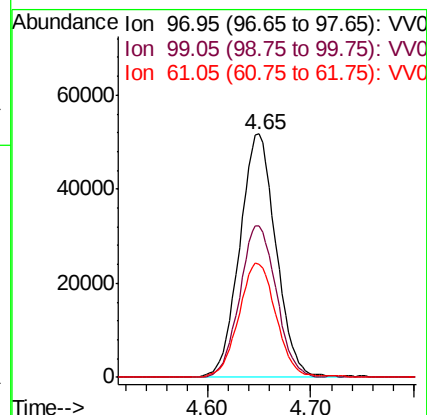
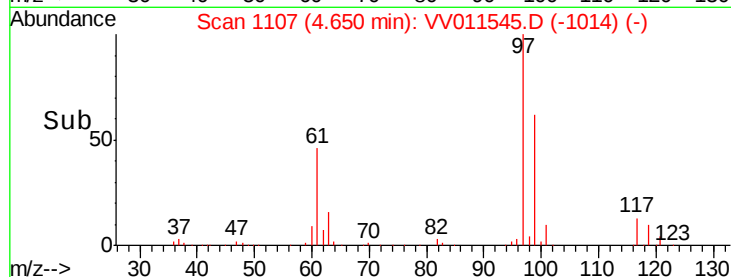
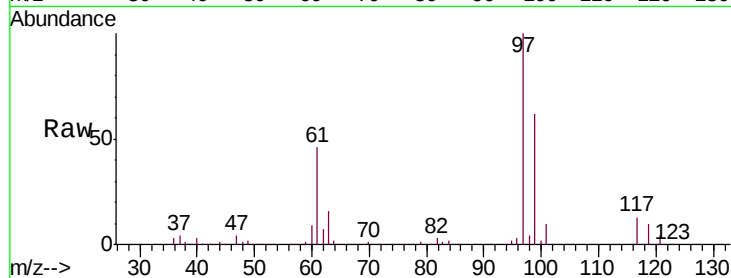
Tgt Ion: 97 Resp: 126598

Ion Ratio Lower Upper

97 100

99 62.6 51.6 77.4

61 48.0 40.4 60.6



#30

Cyclohexane

Concen: 5.197 ug/L

RT: 4.71 min Scan# 1127

Delta R.T. -0.00 min

Lab File: VV011545.D

Acq: 17 Jun 2019 09:52

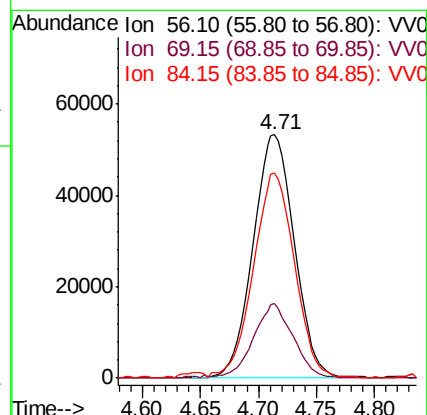
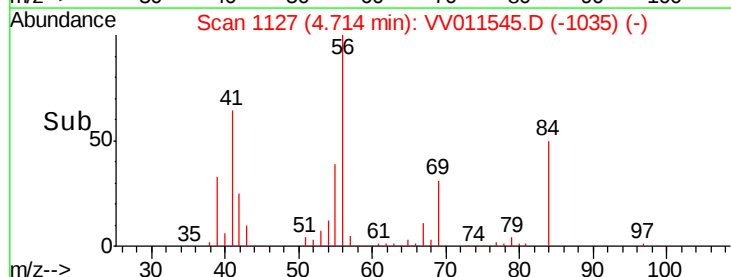
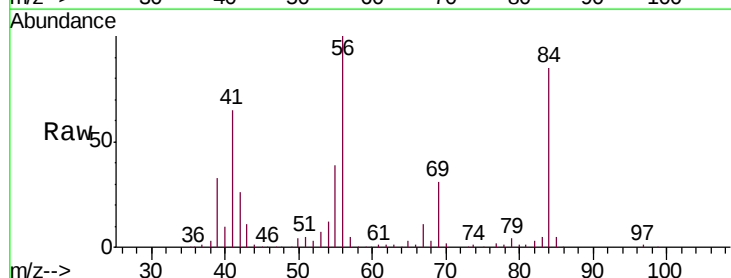
Tgt Ion: 56 Resp: 132120

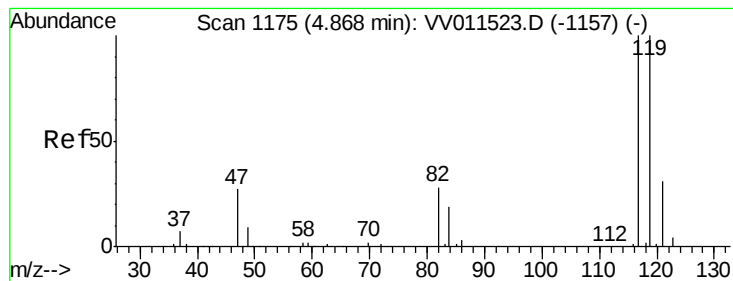
Ion Ratio Lower Upper

56 100

69 29.4 24.1 36.1

84 83.6 66.8 100.2





#31

Carbon tetrachloride

Concen: 5.327 ug/L

RT: 4.87 min Scan# 1174

Delta R.T. -0.00 min

Lab File: VV011545.D

Acq: 17 Jun 2019 09:52

Instrument :

MSVOA_V

ClientSampleId :

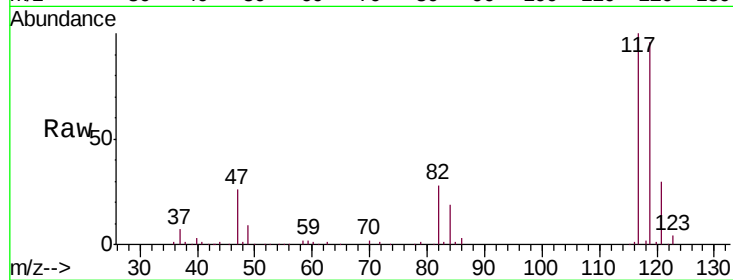
BFB49

Tgt Ion:117 Resp: 106078

Ion Ratio Lower Upper

117 100

119 95.9 77.4 116.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

4.87

50000

40000

30000

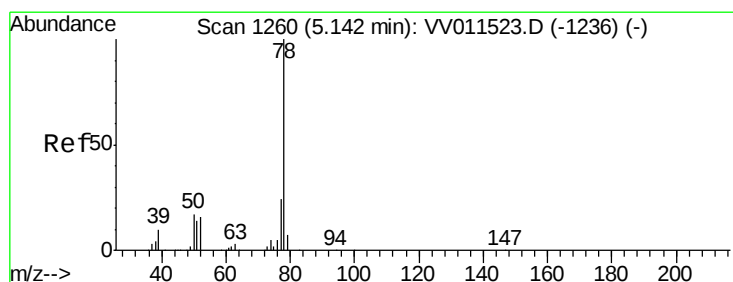
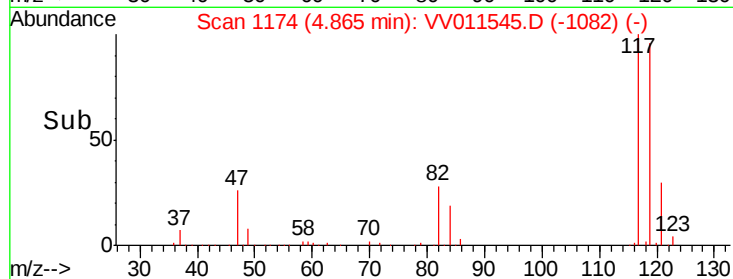
20000

10000

0

Time-->

4.80 4.90



#33

Benzene

Concen: 4.811 ug/L

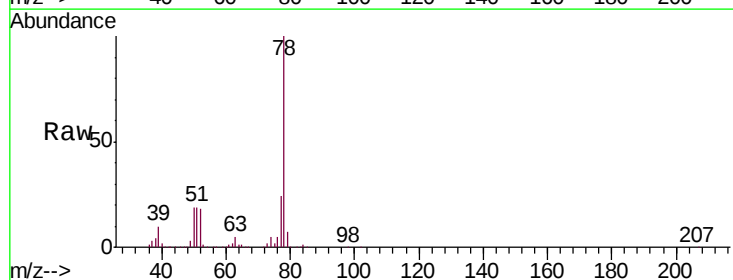
RT: 5.14 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VV011545.D

Acq: 17 Jun 2019 09:52

Tgt Ion: 78 Resp: 310833



Abundance Ion 78.10 (77.80 to 78.80): VV0

5.14

150000

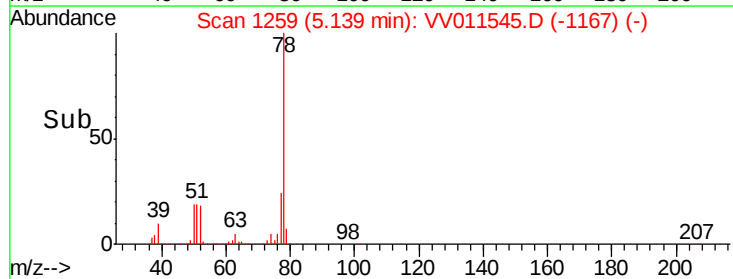
100000

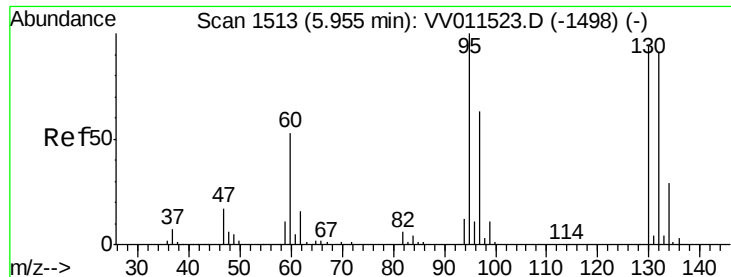
50000

0

Time-->

5.00 5.10 5.20 5.30





#34

Trichloroethene

Concen: 4.947 ug/L

RT: 5.95 min Scan# 1512

Delta R.T. -0.00 min

Lab File: VV011545.D

Acq: 17 Jun 2019 09:52

Instrument :

MSVOA_V

ClientSampleId :

BFB49

Tgt Ion: 95 Resp: 81507

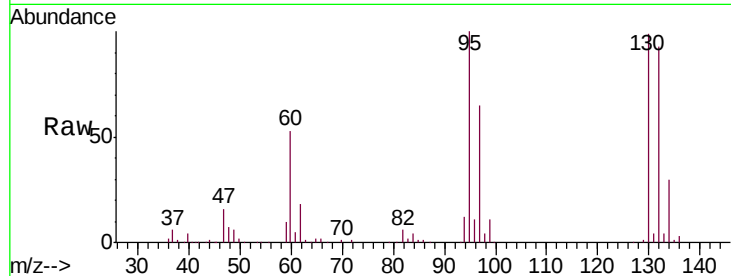
Ion Ratio Lower Upper

95 100

97 65.0 44.4 82.4

132 93.0 63.5 117.9

130 98.9 68.5 127.3

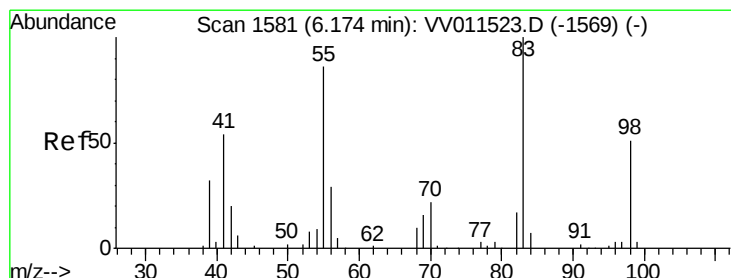
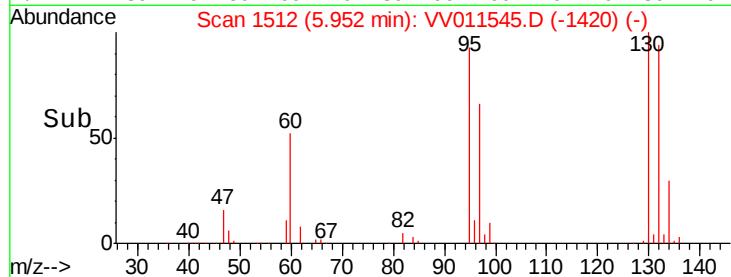
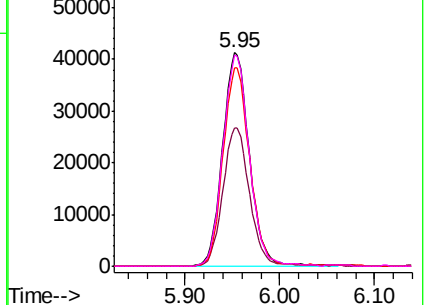


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0



#35

Methylcyclohexane

Concen: 5.603 ug/L

RT: 6.17 min Scan# 1579

Delta R.T. -0.01 min

Lab File: VV011545.D

Acq: 17 Jun 2019 09:52

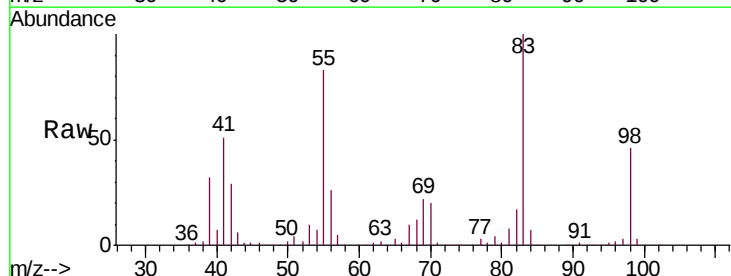
Tgt Ion: 83 Resp: 131616

Ion Ratio Lower Upper

83 100

55 84.8 67.9 101.9

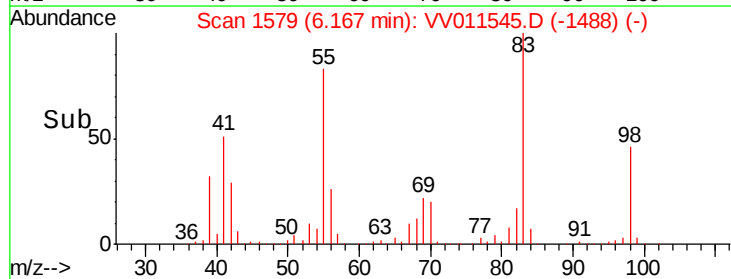
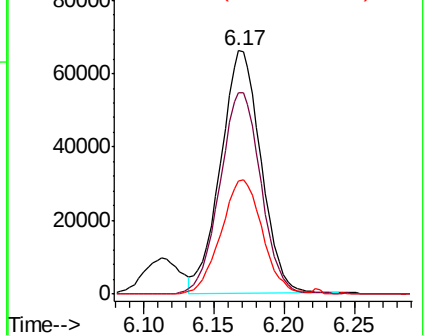
98 48.4 39.6 59.4

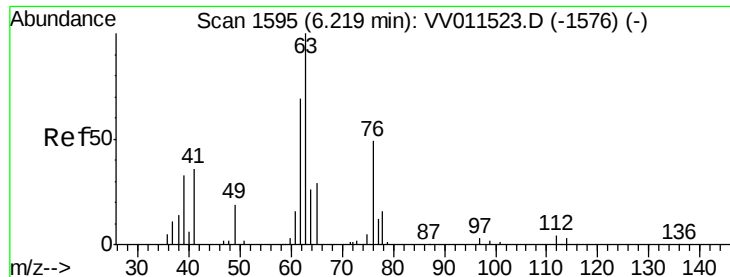


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0





#37

1,2-Dichloropropane

Concen: 4.534 ug/L

RT: 6.22 min Scan# 1594

Delta R.T. -0.00 min

Lab File: VV011545.D

Acq: 17 Jun 2019 09:52

Instrument :

MSVOA_V

ClientSampleId :

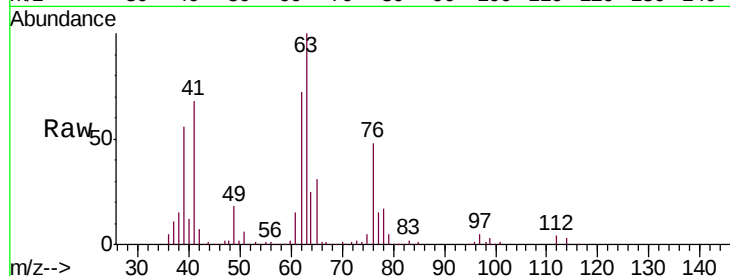
BFB49

Tgt Ion: 63 Resp: 77972

Ion Ratio Lower Upper

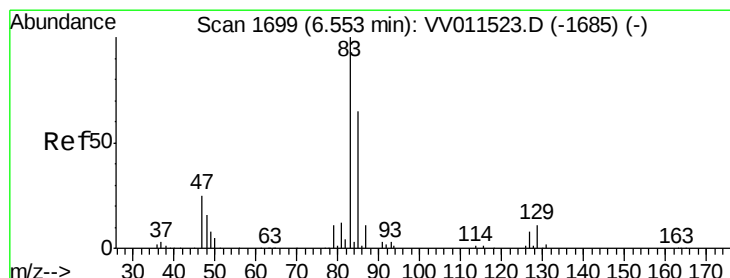
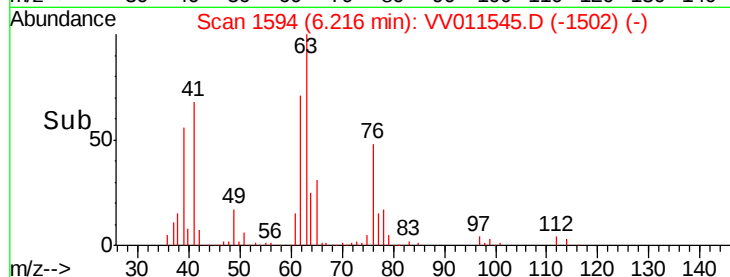
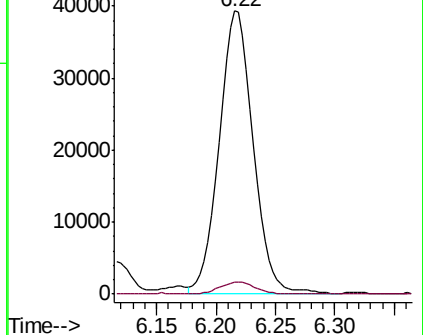
63 100

112 4.6 3.7 5.5



Abundance Ion 63.10 (62.80 to 63.80): VV011523.D (-1576) (-)

Ion 112.10 (111.80 to 112.80): VV011523.D (-1576) (-)



#38

Bromodichloromethane

Concen: 4.729 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV011545.D

Acq: 17 Jun 2019 09:52

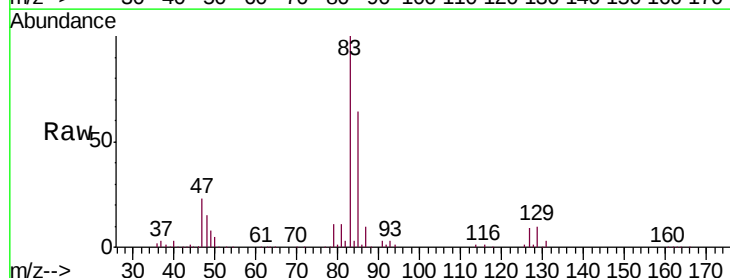
Tgt Ion: 83 Resp: 92393

Ion Ratio Lower Upper

83 100

85 63.6 44.7 83.1

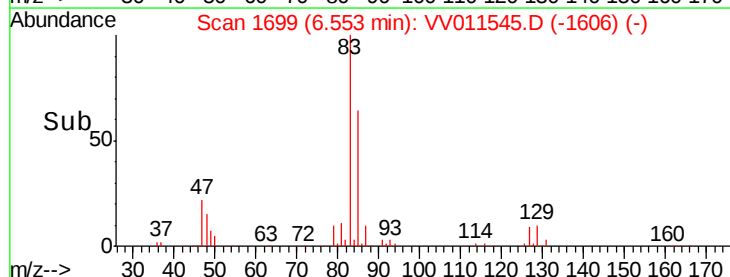
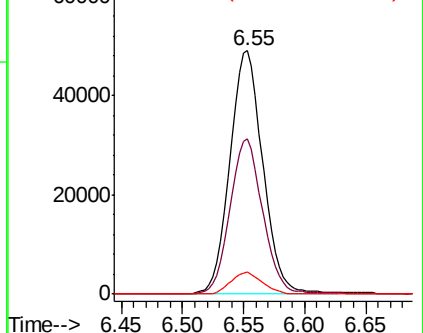
127 8.9 6.2 9.4

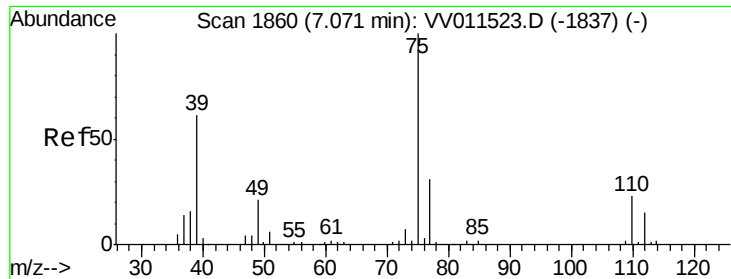


Abundance Ion 82.95 (82.65 to 83.65): VV011523.D (-1685) (-)

Ion 85.00 (84.70 to 85.70): VV011523.D (-1685) (-)

Ion 126.90 (126.60 to 127.60): VV011523.D (-1685) (-)

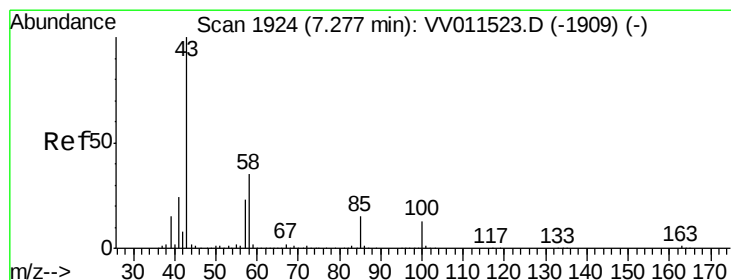
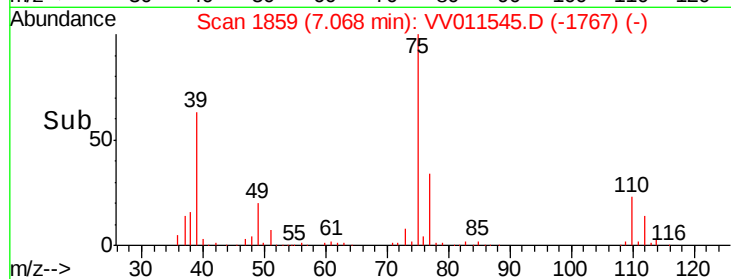
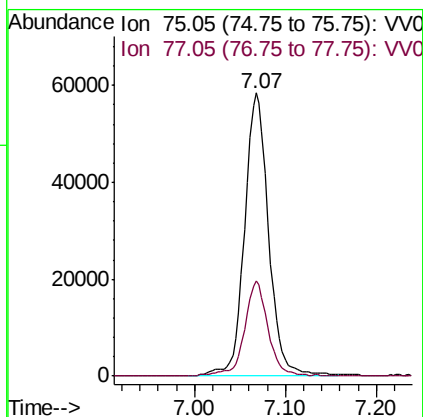
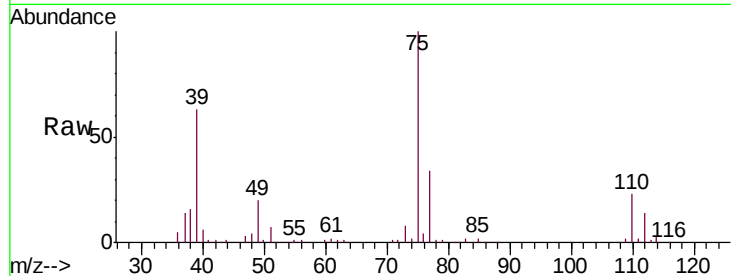




#39
 cis-1,3-Dichloropropene
 Concen: 4.976 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. -0.00 min
 Lab File: VV011545.D
 Acq: 17 Jun 2019 09:52

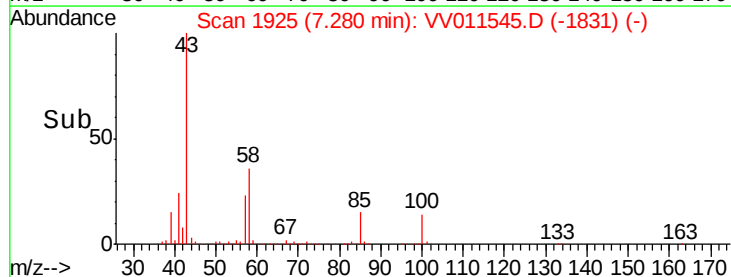
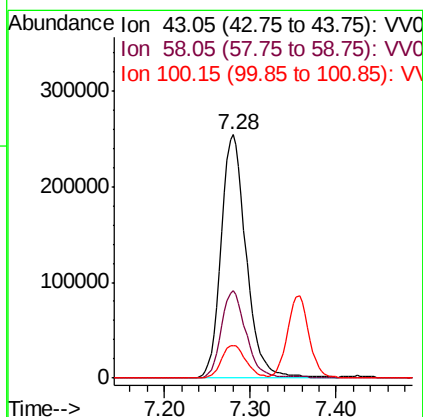
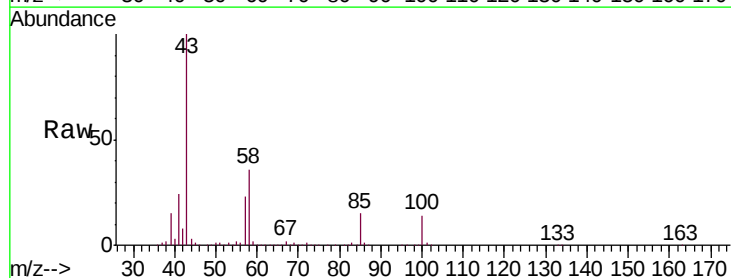
Instrument :
 MSVOA_V
 ClientSampleId :
 BFB49

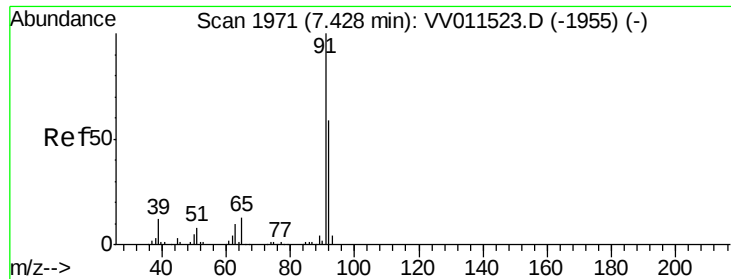
Tgt Ion: 75 Resp: 107723
 Ion Ratio Lower Upper
 75 100
 77 33.8 20.6 38.4



#40
 4-Methyl-2-pentanone
 Concen: 42.114 ug/L
 RT: 7.28 min Scan# 1925
 Delta R.T. 0.00 min
 Lab File: VV011545.D
 Acq: 17 Jun 2019 09:52

Tgt Ion: 43 Resp: 516266
 Ion Ratio Lower Upper
 43 100
 58 35.2 28.7 43.1
 100 13.2 10.6 15.8





#42

Toluene

Concen: 4.927 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV011545.D

Acq: 17 Jun 2019 09:52

Instrument :

MSVOA_V

ClientSampleId :

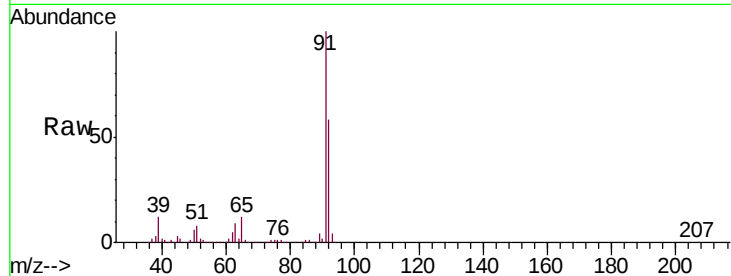
BFB49

Tgt Ion: 91 Resp: 329815

Ion Ratio Lower Upper

91 100

92 57.9 40.5 75.1



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0

7.43

200000

150000

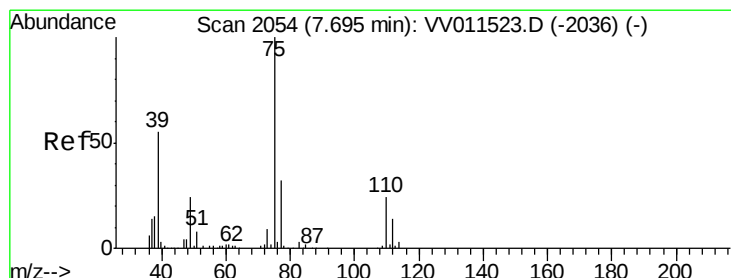
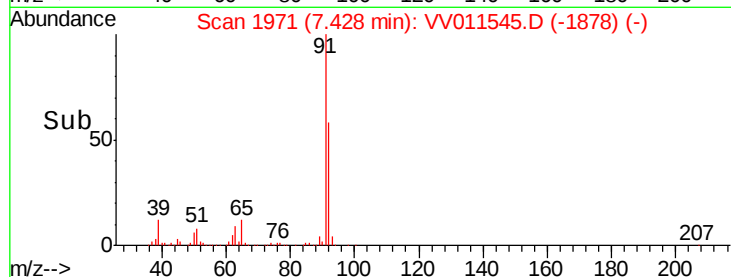
100000

50000

0

7.40 7.50 7.60

Time-->



#44

trans-1,3-Dichloropropene

Concen: 5.060 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV011545.D

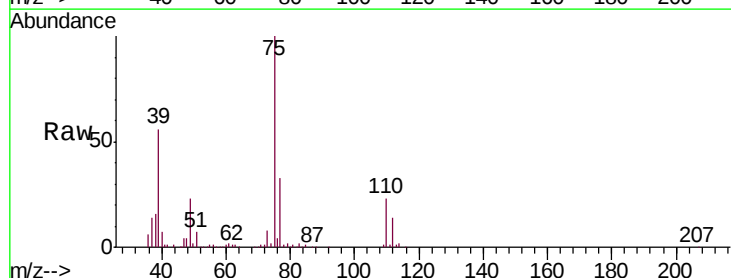
Acq: 17 Jun 2019 09:52

Tgt Ion: 75 Resp: 83787

Ion Ratio Lower Upper

75 100

77 32.8 22.8 42.4



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.69

50000

40000

30000

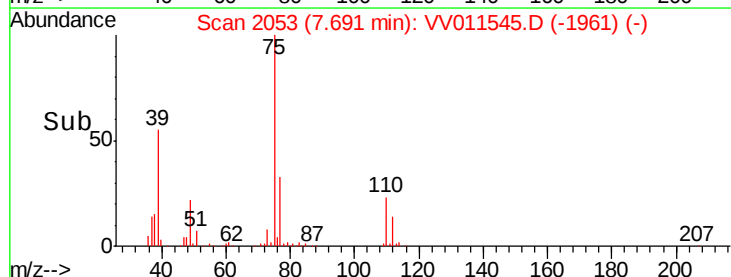
20000

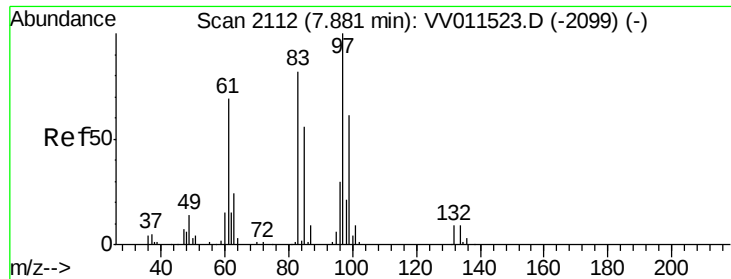
10000

0

7.60 7.70 7.80

Time-->

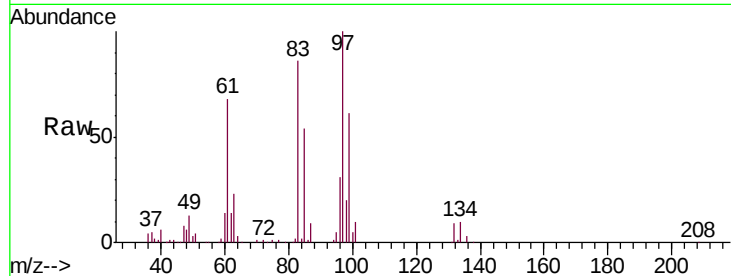




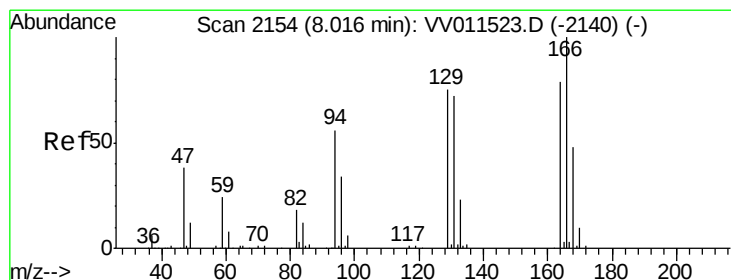
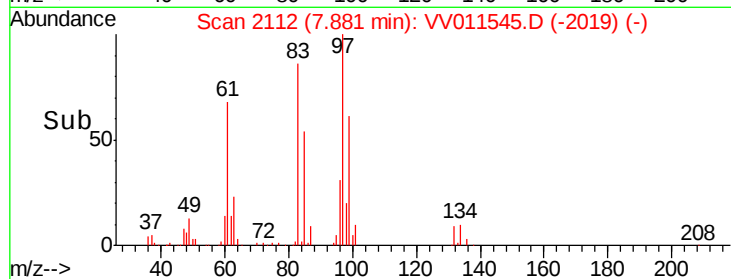
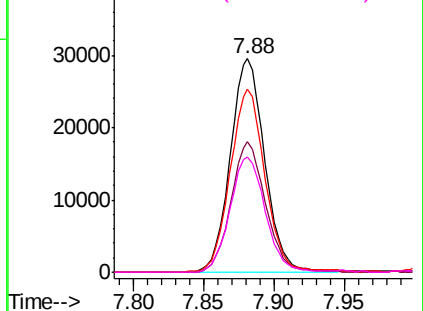
#45
 1,1,2-Trichloroethane
 Concen: 4.397 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV011545.D
 Acq: 17 Jun 2019 09:52

Instrument :
 MSVOA_V
 ClientSampleId :
 BFB49

Tgt Ion:	97	Resp:	50474
Ion	Ratio	Lower	Upper
97	100		
99	60.8	45.4	84.4
83	85.9	60.6	112.6
85	53.7	38.6	71.6

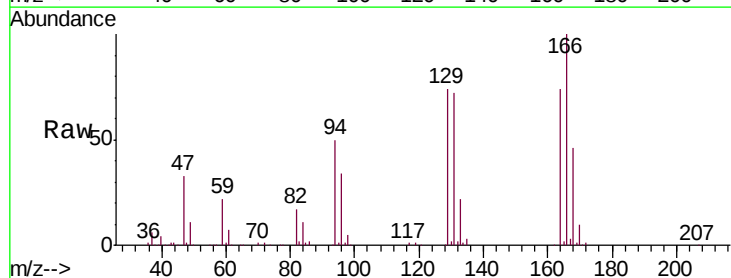


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 82.95 (82.65 to 83.65): VV0
 Ion 85.00 (84.70 to 85.70): VV0

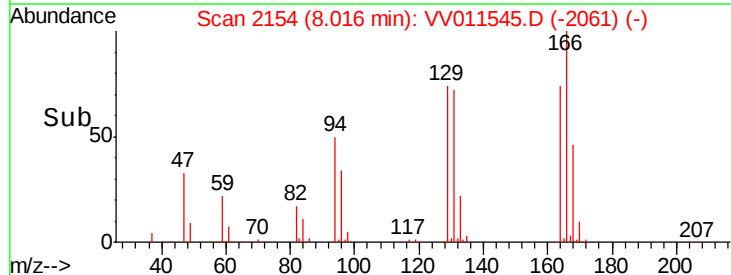
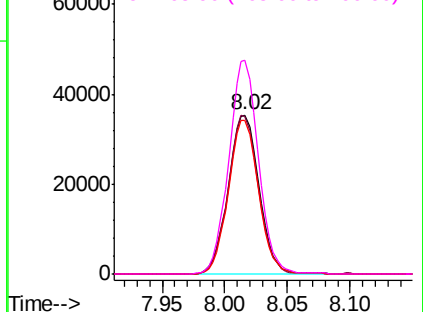


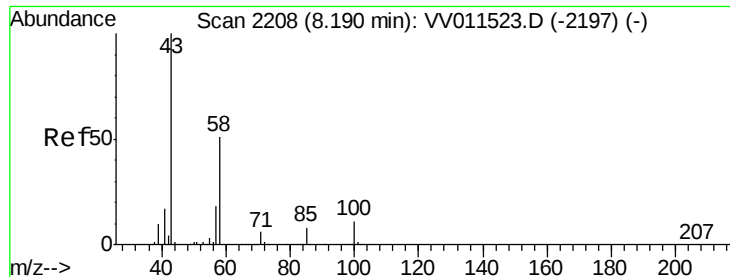
#47
 Tetrachloroethene
 Concen: 5.131 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VV011545.D
 Acq: 17 Jun 2019 09:52

Tgt Ion:	164	Resp:	60286
Ion	Ratio	Lower	Upper
164	100		
129	98.8	68.8	127.8
131	96.7	63.2	117.4
166	134.3	87.0	161.6



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 128.95 (128.65 to 129.65): V
 Ion 130.95 (130.65 to 131.65): V
 Ion 165.90 (165.60 to 166.60): V

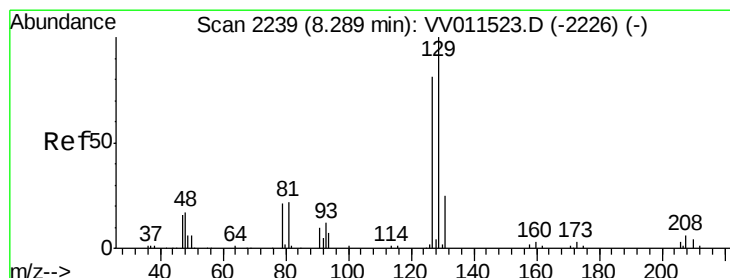
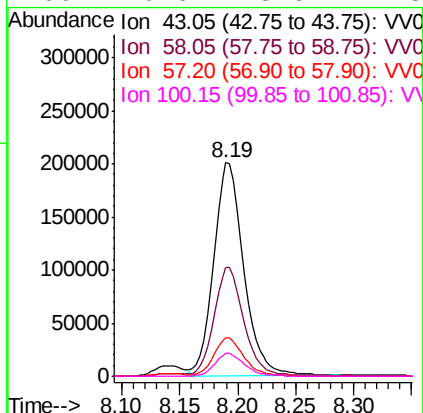
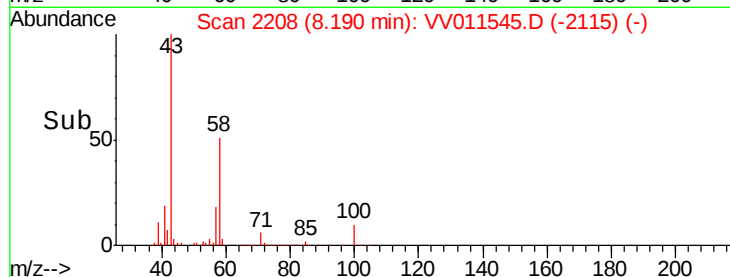
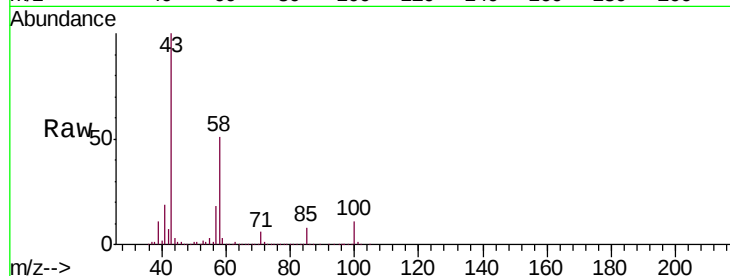




#48
2-Hexanone
Concen: 42.056 ug/L
RT: 8.19 min Scan# 2208
Delta R.T. 0.00 min
Lab File: VV011545.D
Acq: 17 Jun 2019 09:52

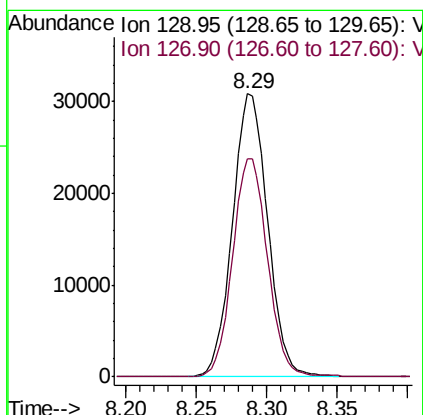
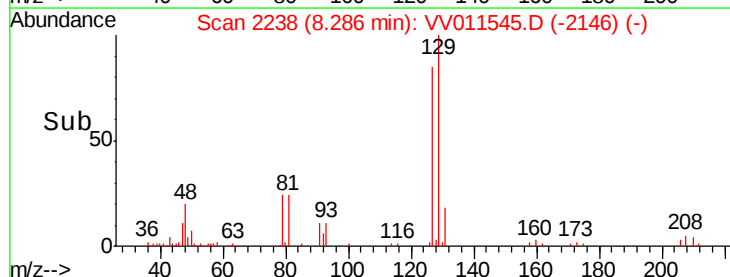
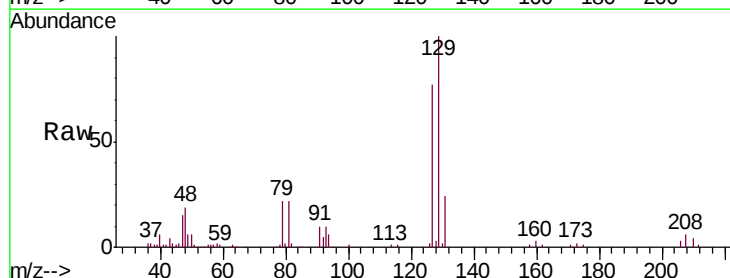
Instrument :
MSVOA_V
ClientSampleId :
BFB49

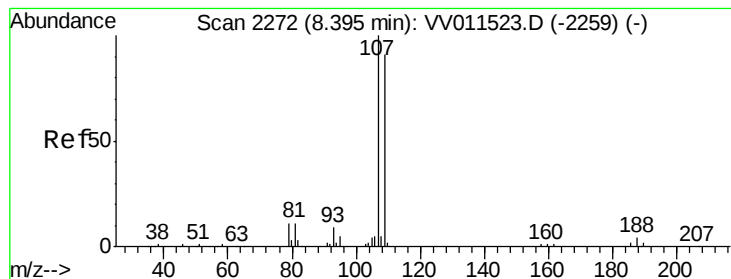
Tgt Ion:	43	Resp:	362429
Ion	Ratio	Lower	Upper
43	100		
58	50.7	40.6	60.8
57	18.0	14.2	21.4
100	10.6	8.6	12.8



#49
Dibromochloromethane
Concen: 4.683 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. -0.00 min
Lab File: VV011545.D
Acq: 17 Jun 2019 09:52

Tgt Ion:	129	Resp:	54017
Ion	Ratio	Lower	Upper
129	100		
127	77.2	52.6	97.6





#50

1,2-Dibromoethane

Concen: 4.386 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VV011545.D

Acq: 17 Jun 2019 09:52

Instrument :

MSVOA_V

ClientSampleId :

BFB49

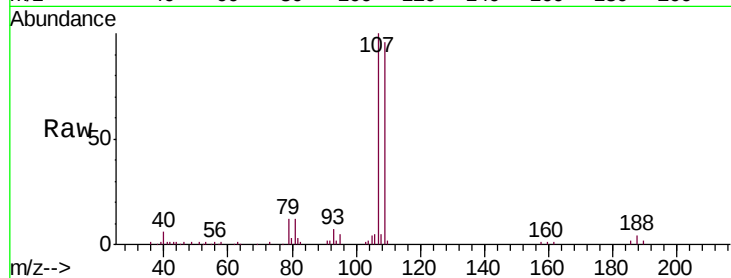
Tgt Ion:107 Resp: 45537

Ion Ratio Lower Upper

107 100

109 96.1 65.7 121.9

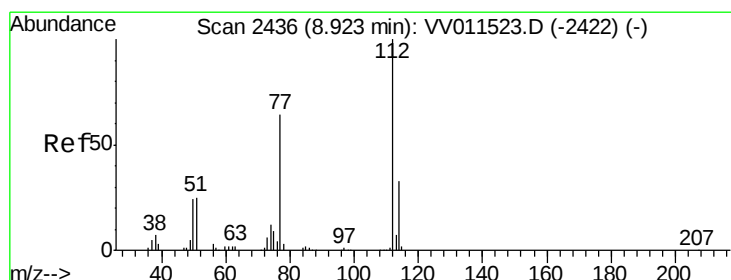
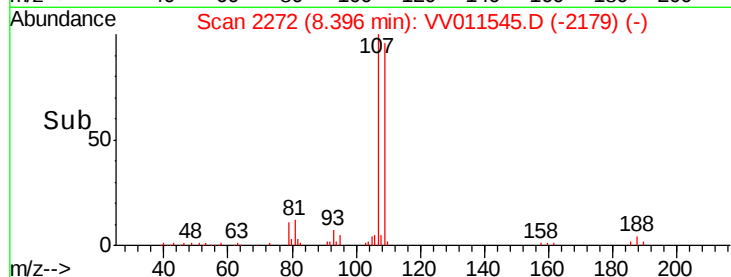
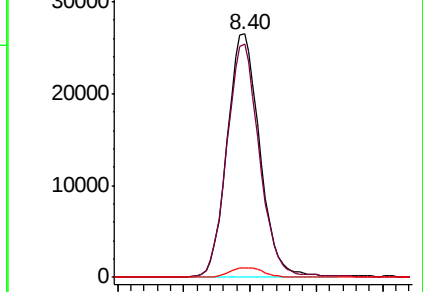
188 3.7 2.9 4.3



Abundance Ion 106.95 (106.65 to 107.65): V

Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51

Chlorobenzene

Concen: 4.870 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VV011545.D

Acq: 17 Jun 2019 09:52

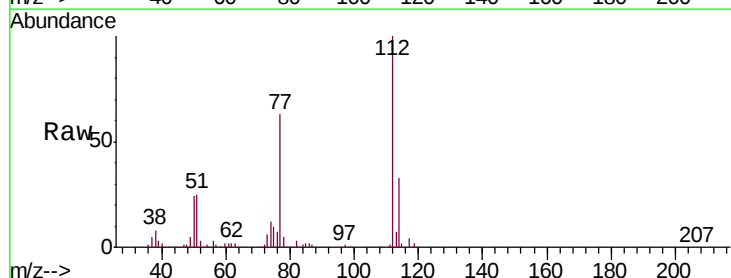
Tgt Ion:112 Resp: 200244

Ion Ratio Lower Upper

112 100

114 32.9 21.9 40.7

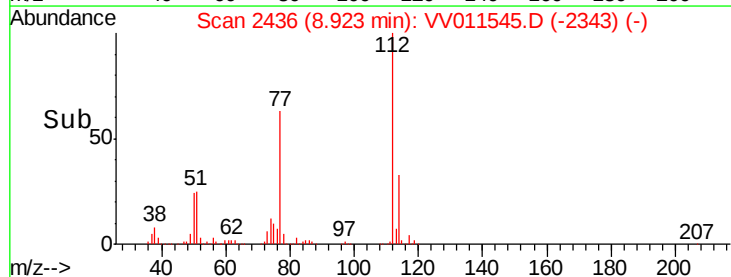
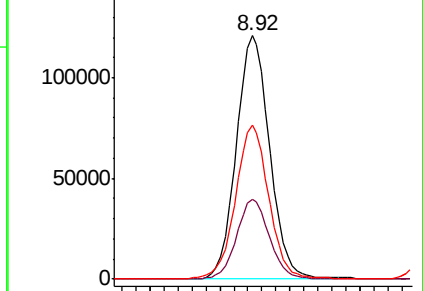
77 63.1 49.3 73.9

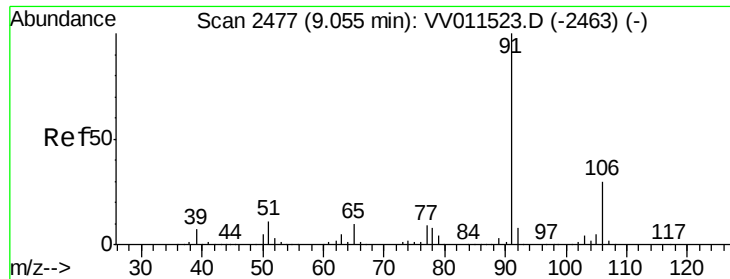


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VV0





#52

Ethylbenzene

Concen: 5.169 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV011545.D

Acq: 17 Jun 2019 09:52

Instrument :

MSVOA_V

ClientSampled :

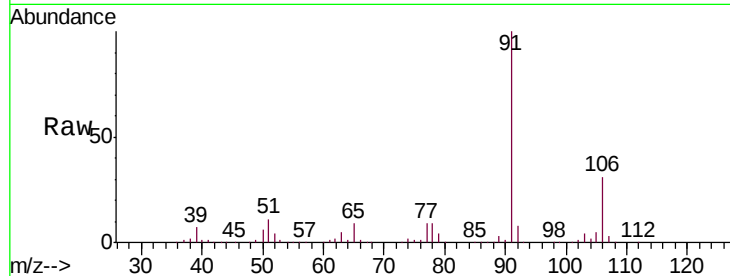
BFB49

Tgt Ion: 91 Resp: 363456

Ion Ratio Lower Upper

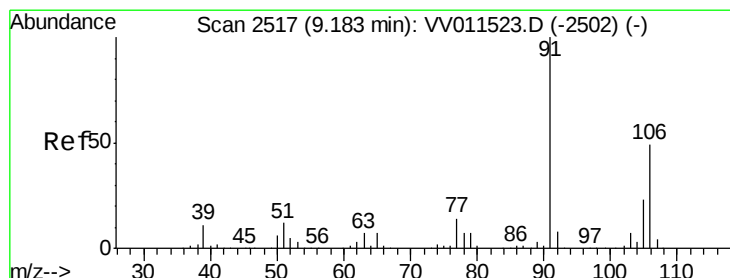
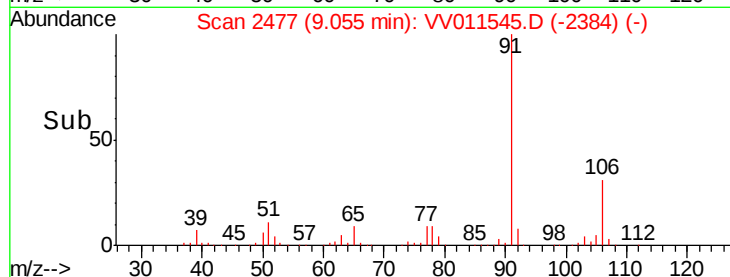
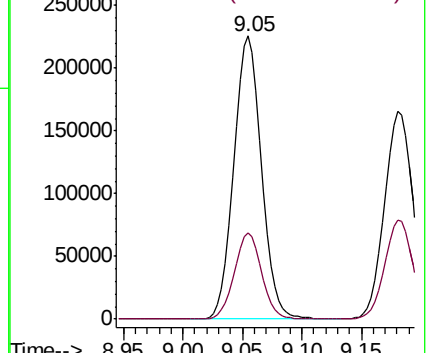
91 100

106 30.6 21.2 39.4



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 106.15 (105.85 to 106.85): V



#53

m,p-xylene

Concen: 5.186 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV011545.D

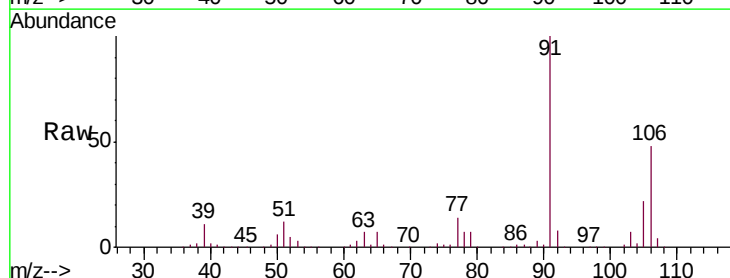
Acq: 17 Jun 2019 09:52

Tgt Ion: 106 Resp: 133443

Ion Ratio Lower Upper

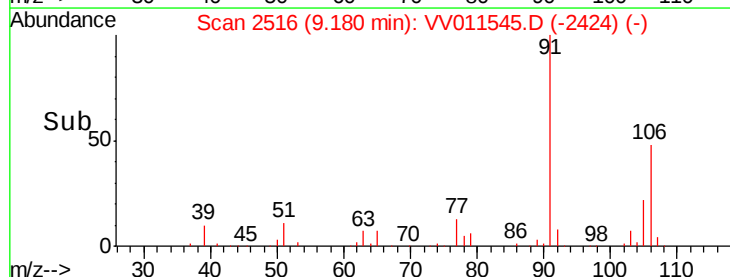
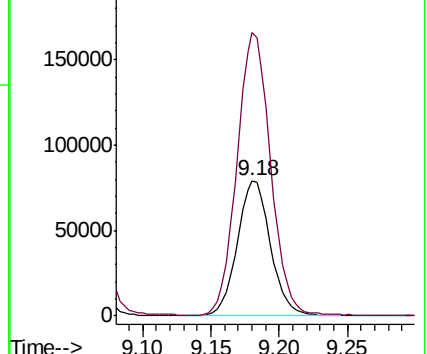
106 100

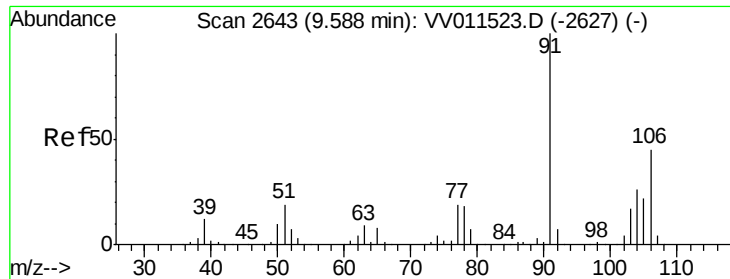
91 209.1 145.5 270.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0





#54

o-xylene

Concen: 5.086 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. -0.00 min

Lab File: VV011545.D

Acq: 17 Jun 2019 09:52

Instrument :

MSVOA_V

ClientSampleId :

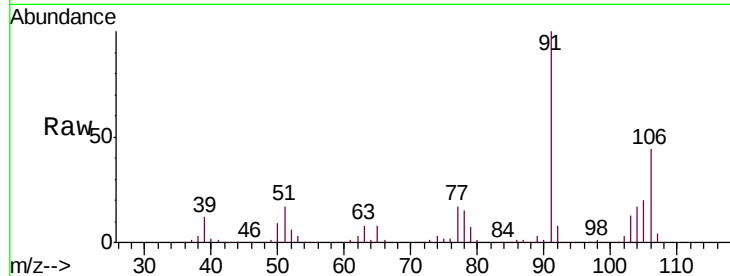
BFB49

Tgt Ion:106 Resp: 131457

Ion Ratio Lower Upper

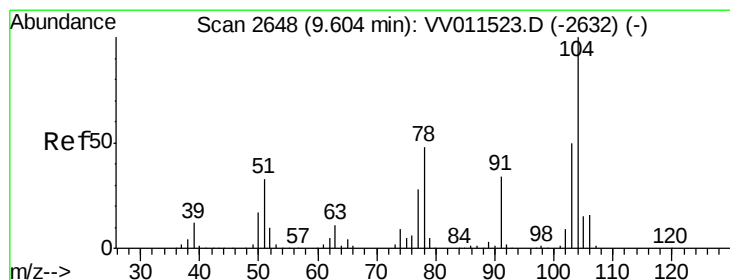
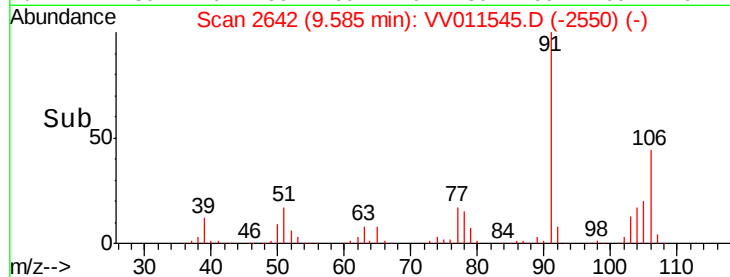
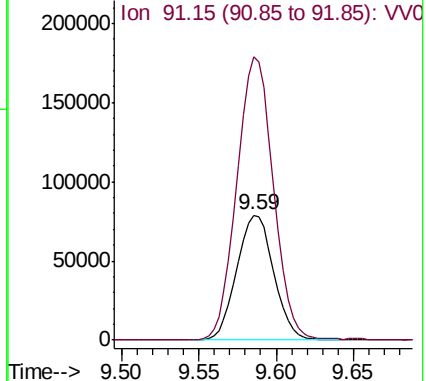
106 100

91 226.3 158.8 294.8



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 5.139 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV011545.D

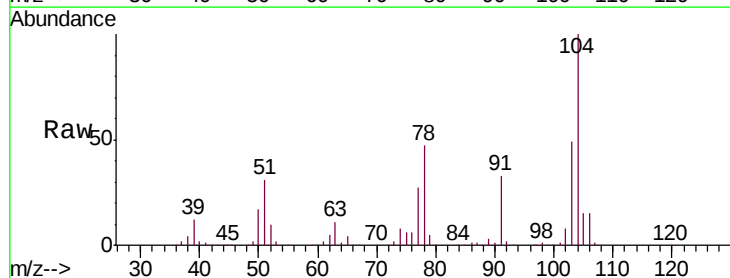
Acq: 17 Jun 2019 09:52

Tgt Ion:104 Resp: 220292

Ion Ratio Lower Upper

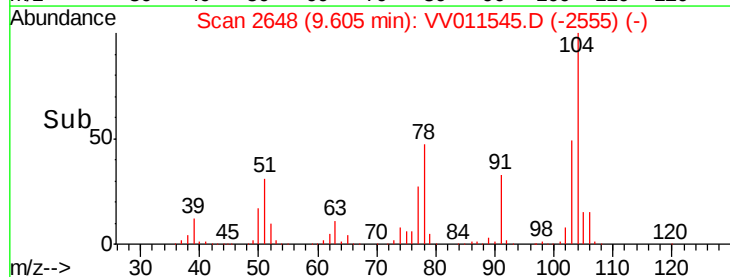
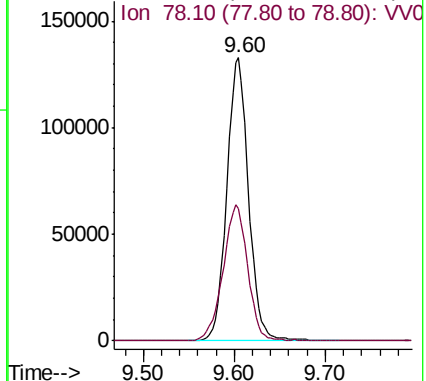
104 100

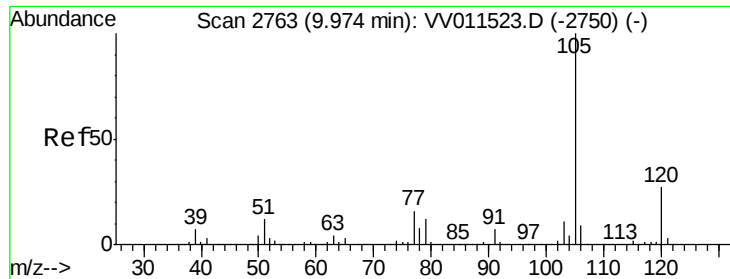
78 46.8 34.0 63.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 5.402 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV011545.D

Acq: 17 Jun 2019 09:52

Instrument :

MSVOA_V

ClientSampleId :

BFB49

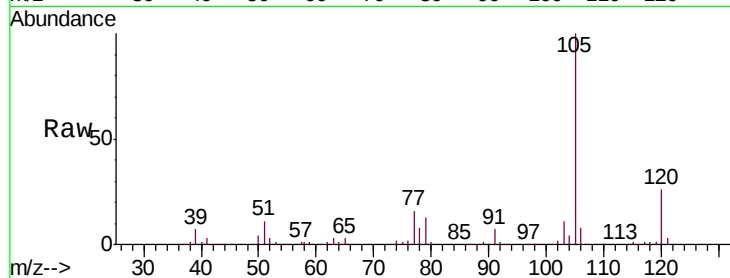
Tgt Ion: 105 Resp: 355371

Ion Ratio Lower Upper

105 100

120 25.6 20.7 31.1

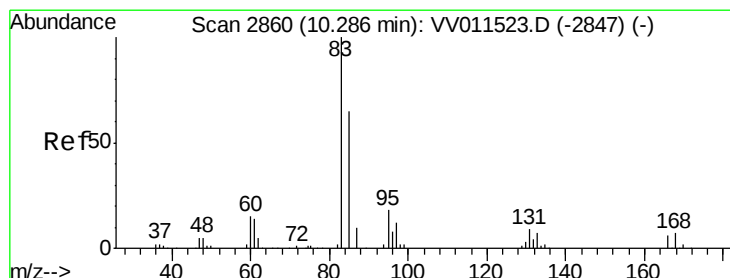
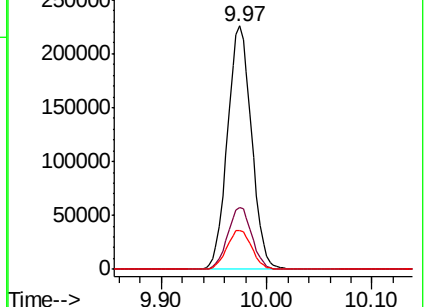
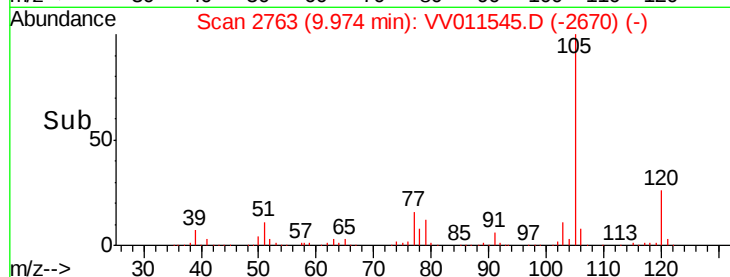
77 16.6 13.8 20.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.070 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV011545.D

Acq: 17 Jun 2019 09:52

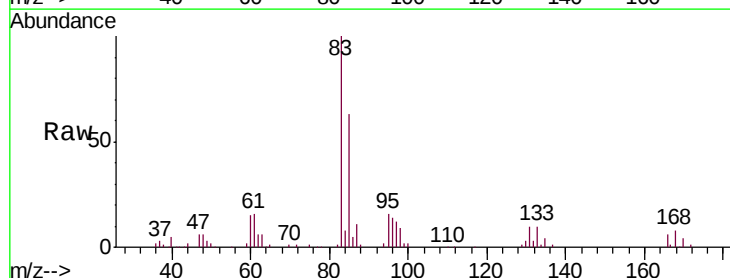
Tgt Ion: 83 Resp: 57136

Ion Ratio Lower Upper

83 100

85 63.0 45.6 84.8

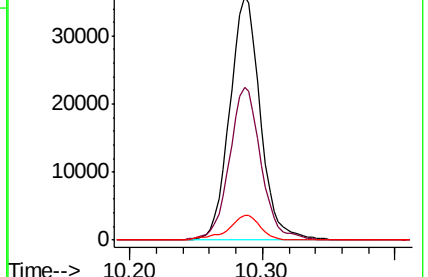
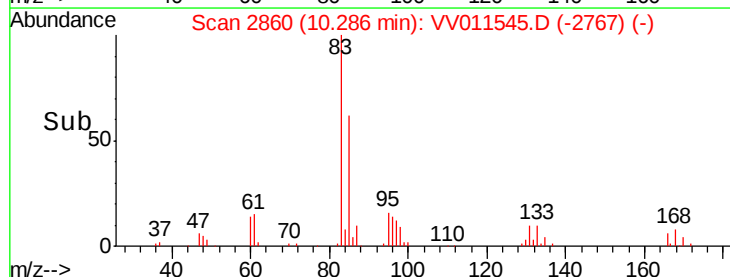
131 10.0 7.9 11.9

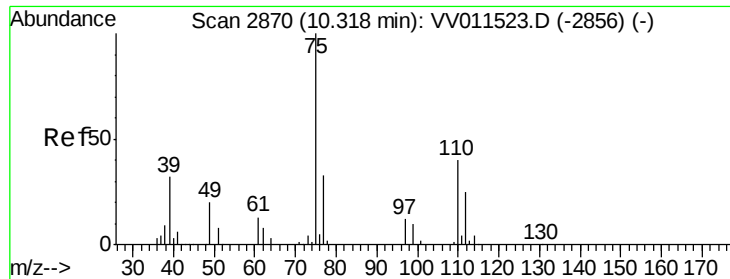


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V

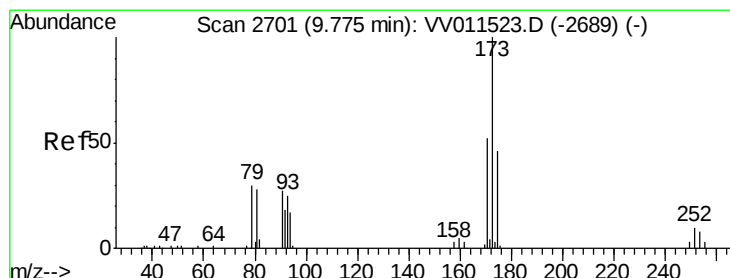
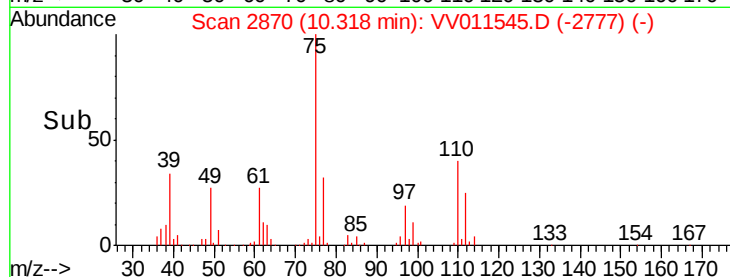
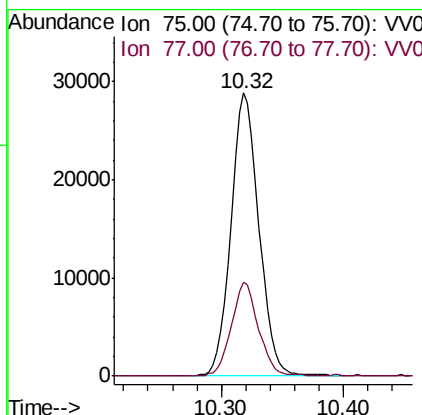
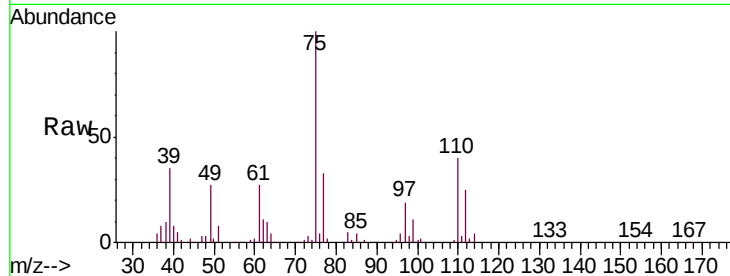




#59
 1,2,3-Trichloropropane
 Concen: 4.280 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. 0.00 min
 Lab File: VV011545.D
 Acq: 17 Jun 2019 09:52

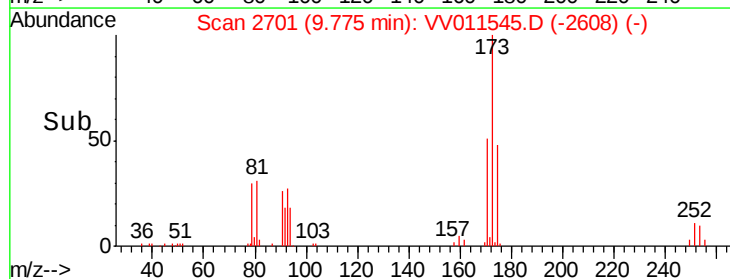
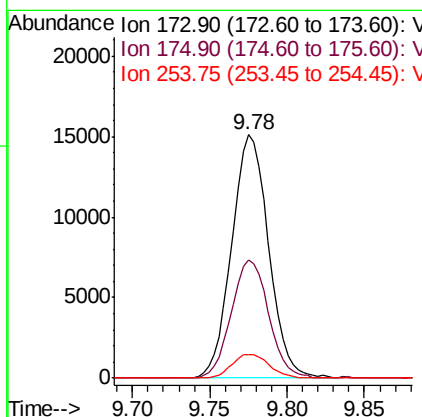
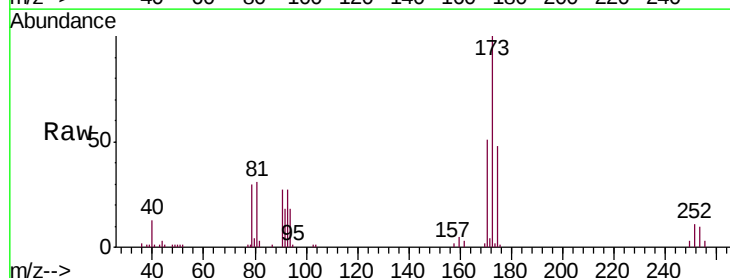
Instrument :
 MSVOA_V
 ClientSampleId :
 BFB49

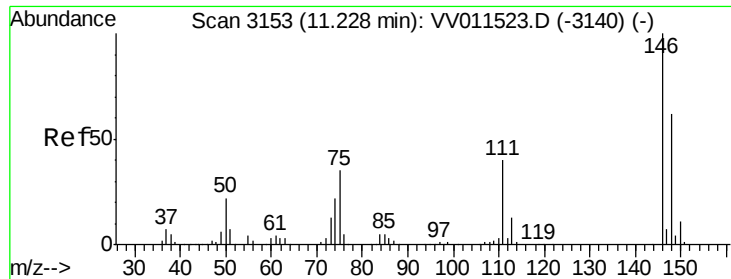
Tgt Ion: 75 Resp: 45950
 Ion Ratio Lower Upper
 75 100
 77 32.3 26.0 39.0



#61
 Bromoform
 Concen: 4.343 ug/L
 RT: 9.78 min Scan# 2701
 Delta R.T. 0.00 min
 Lab File: VV011545.D
 Acq: 17 Jun 2019 09:52

Tgt Ion: 173 Resp: 25048
 Ion Ratio Lower Upper
 173 100
 175 48.8 38.3 57.5
 254 9.8 7.9 11.9





#62

1,3-Dichlorobenzene

Concen: 4.966 ug/L

RT: 11.23 min Scan# 3152

Delta R.T. -0.00 min

Lab File: VV011545.D

Acq: 17 Jun 2019 09:52

Instrument :

MSVOA_V

ClientSampleId :

BFB49

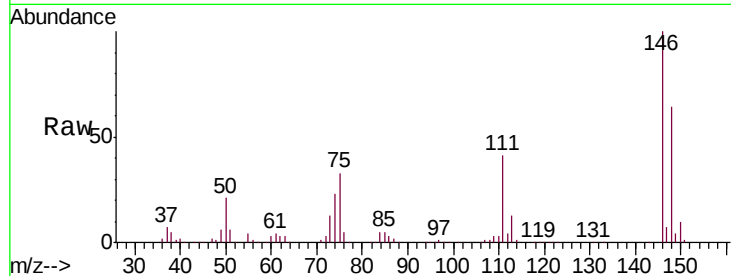
Tgt Ion:146 Resp: 145655

Ion Ratio Lower Upper

146 100

111 40.8 29.2 54.2

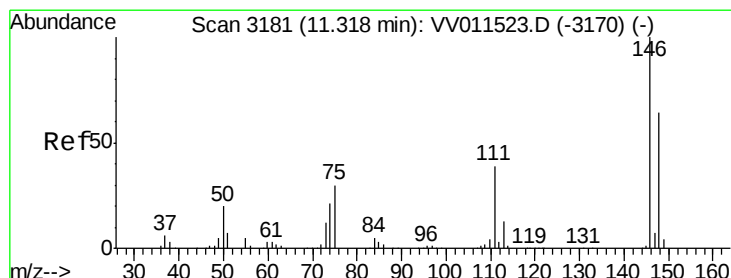
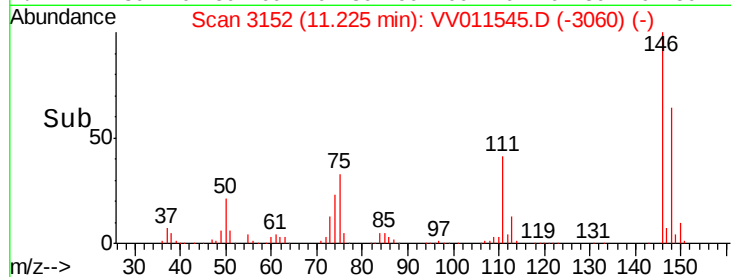
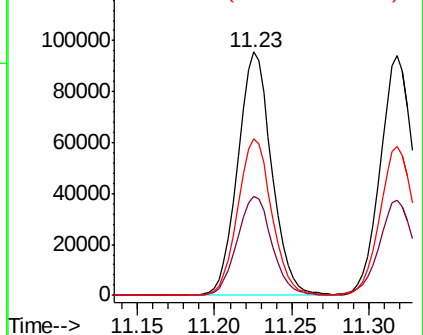
148 64.1 44.3 82.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.828 ug/L

RT: 11.32 min Scan# 3181

Delta R.T. 0.00 min

Lab File: VV011545.D

Acq: 17 Jun 2019 09:52

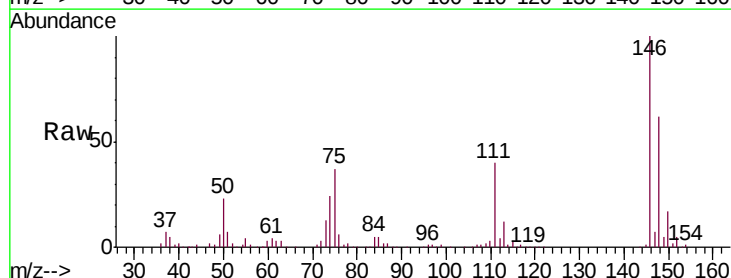
Tgt Ion:146 Resp: 144269

Ion Ratio Lower Upper

146 100

111 39.8 26.7 49.7

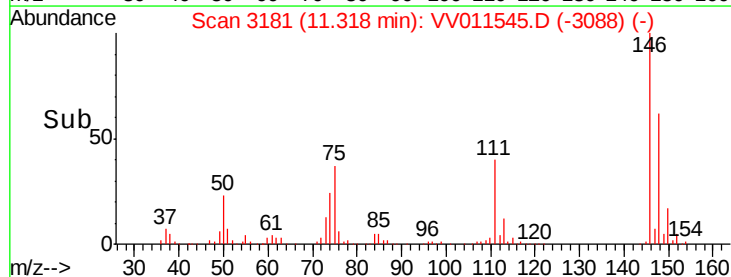
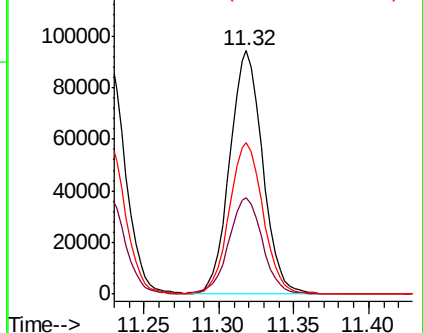
148 62.1 44.2 82.2

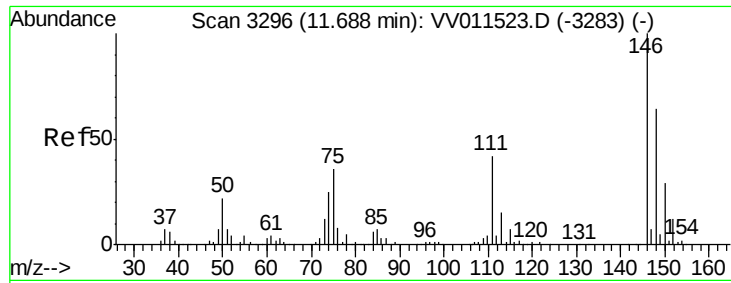


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 4.627 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV011545.D

Acq: 17 Jun 2019 09:52

Instrument :

MSVOA_V

ClientSampleId :

BFB49

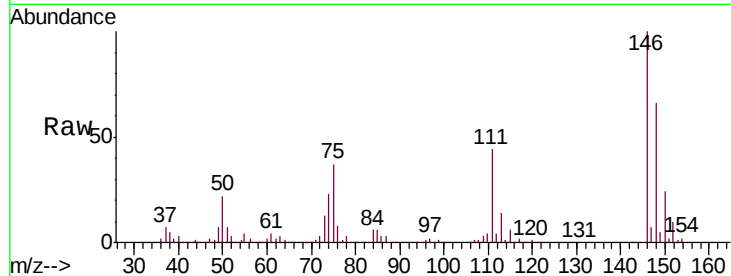
Tgt Ion: 146 Resp: 136595

Ion Ratio Lower Upper

146 100

111 44.1 35.3 52.9

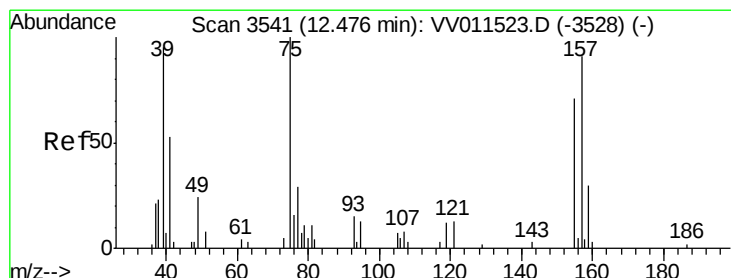
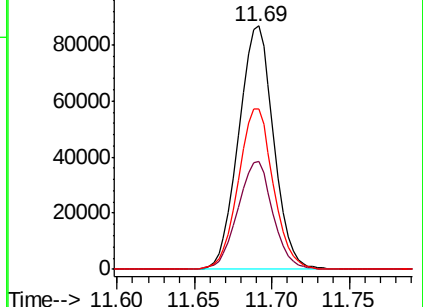
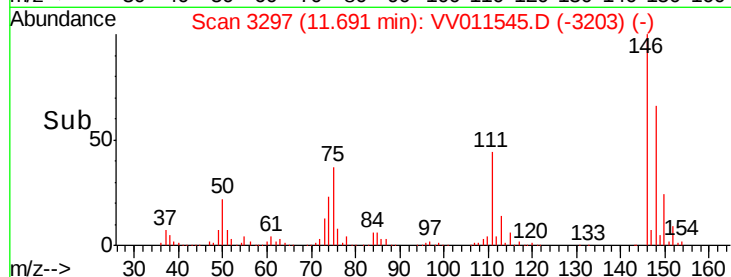
148 65.9 51.3 76.9



Abundance Ion 145.95 (145.65 to 146.65): 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: 3.818 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. 0.00 min

Lab File: VV011545.D

Acq: 17 Jun 2019 09:52

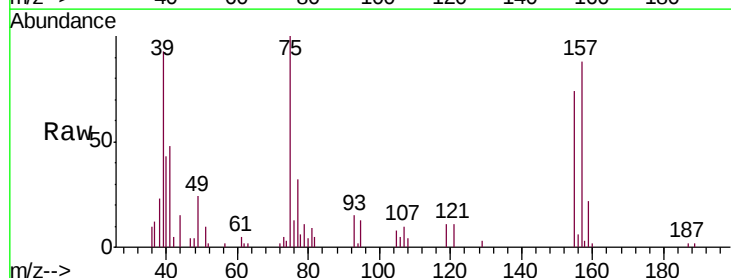
Tgt Ion: 75 Resp: 8185

Ion Ratio Lower Upper

75 100

155 74.4 58.5 87.7

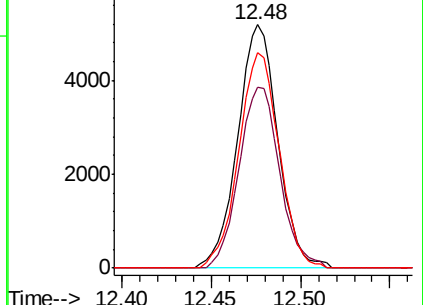
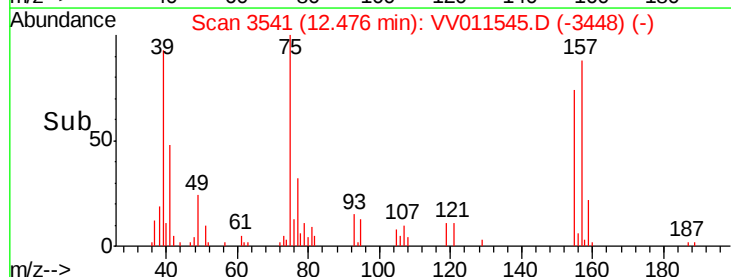
157 88.5 79.8 119.6

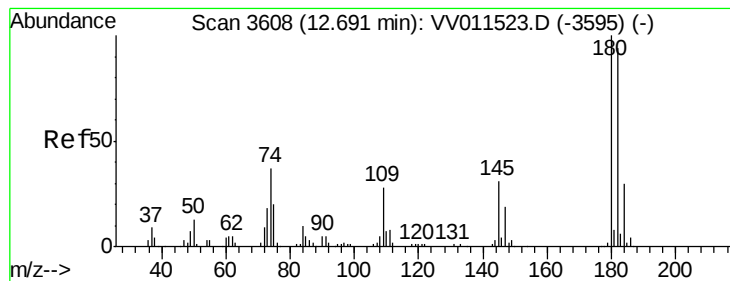


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V





#67

1,3,5-Trichlorobenzene

Concen: 5.105 ug/L

RT: 12.69 min Scan# 3608

Delta R.T. 0.00 min

Lab File: VV011545.D

Acq: 17 Jun 2019 09:52

Instrument :

MSVOA_V

ClientSampleId :

BFB49

Tgt Ion:180 Resp: 109359

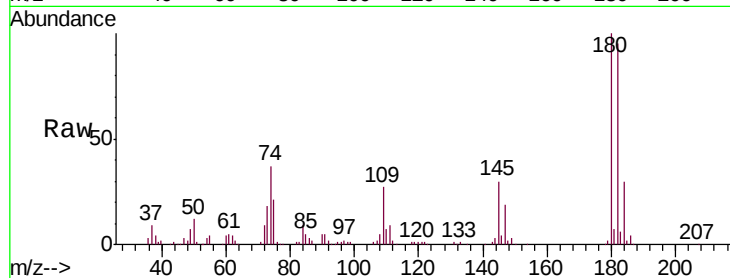
Ion Ratio Lower Upper

180 100

182 95.1 75.4 113.0

184 29.7 24.0 36.0

145 30.2 24.4 36.6

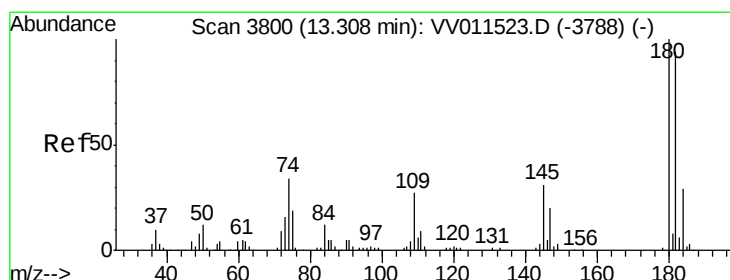
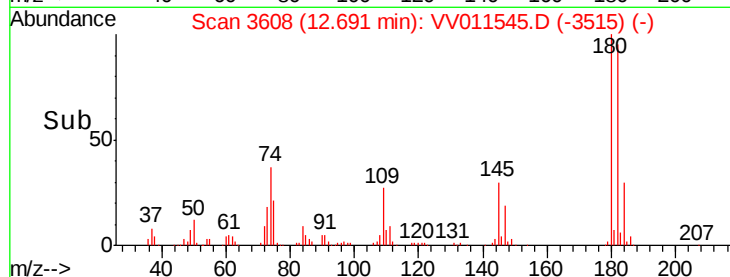
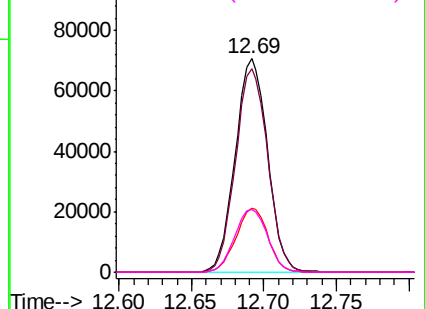


Abundance Ion 180.00 (179.70 to 180.70): V

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: 4.666 ug/L

RT: 13.31 min Scan# 3800

Delta R.T. 0.00 min

Lab File: VV011545.D

Acq: 17 Jun 2019 09:52

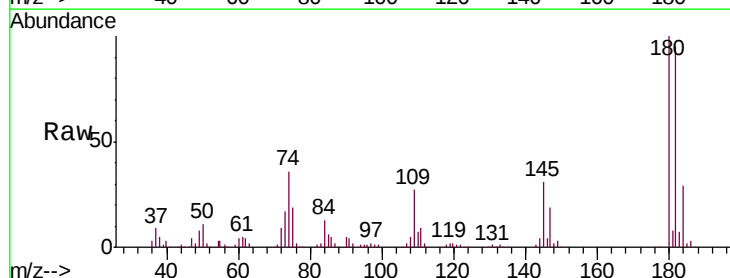
Tgt Ion:180 Resp: 80268

Ion Ratio Lower Upper

180 100

182 95.9 76.2 114.4

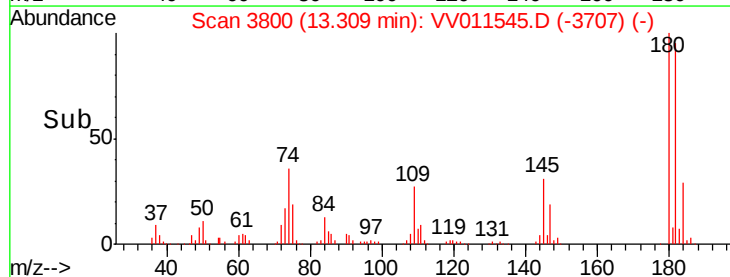
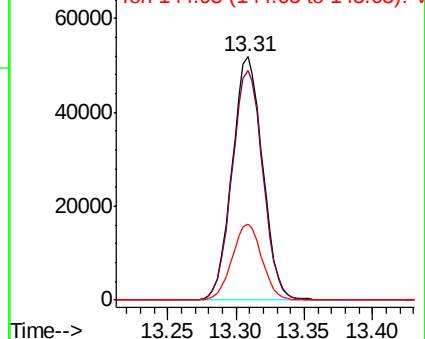
145 30.7 24.7 37.1

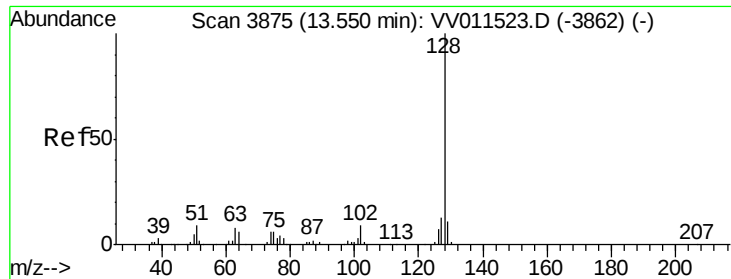


Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 3.864 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV011545.D

Acq: 17 Jun 2019 09:52

Instrument :

MSVOA_V

ClientSampled :

BFB49

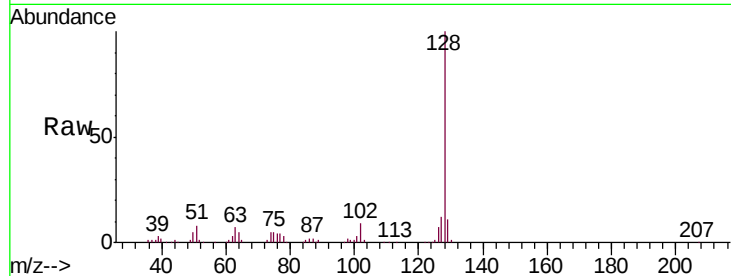
Tgt Ion:128 Resp: 130695

Ion Ratio Lower Upper

128 100

129 10.8 8.7 13.1

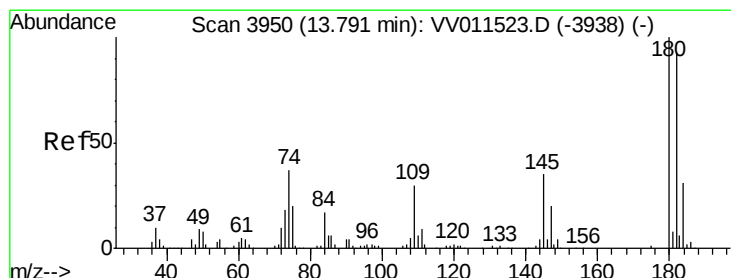
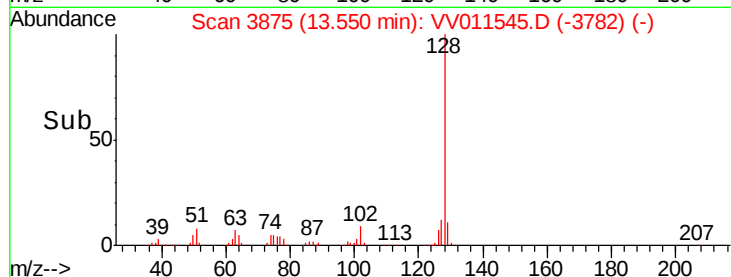
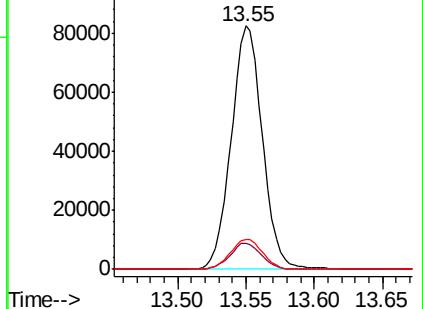
127 12.8 10.9 16.3



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: 4.515 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VV011545.D

Acq: 17 Jun 2019 09:52

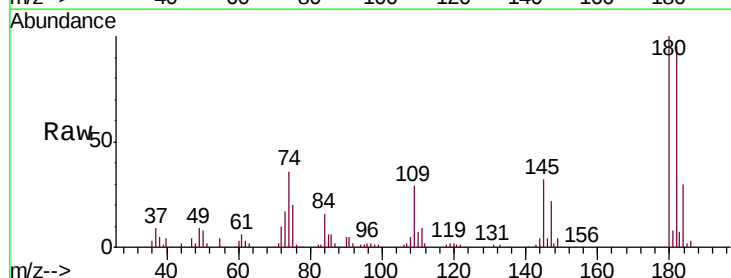
Tgt Ion:180 Resp: 75322

Ion Ratio Lower Upper

180 100

182 94.7 76.6 115.0

145 33.0 27.1 40.7



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

