

Data File : VV010689.D
Acq On : 07 May 2019 11:44
Operator : SY/MD
Sample : VSTD00562
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00562

Quant Time: May 08 02:30:55 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM050719S.M
Quant Title : VOC Analysis
QLast Update : Wed May 08 02:27:44 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	101190	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	105342	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	47372	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	7855	5.00	ug/L	0.00
7) Chloroethane-d5	1.57	69	6580	5.09	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.12	63	17649	5.18	ug/L	0.00
20) 2-Butanone-d5	3.94	46	3791	7.82	ug/L	0.00
24) Chloroform-d	4.40	84	14013	5.08	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	8243	4.78	ug/L	0.00
29) Benzene-d6	5.10	84	26851	4.84	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.12	67	8604	4.87	ug/L	0.00
37) Toluene-d8	7.36	98	25516	4.81	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.66	79	3525	4.38	ug/L	0.00
39) 2-Hexanone-d5	8.13	63	2885	7.80	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	7196	4.33	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.67	152	9068	4.94	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	6632	4.732	ug/L	99
3) Chloromethane	1.25	50	8233	4.829	ug/L	99
5) Vinyl chloride	1.32	62	9675	4.887	ug/L	95
6) Bromomethane	1.51	94	4545	4.734	ug/L	90
8) Chloroethane	1.59	64	5970	4.843	ug/L	89
9) Trichlorofluoromethane	1.76	101	14499	4.866	ug/L	97
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	8388	4.930	ug/L	97
12) 1,1-Dichloroethene	2.13	96	7636	4.793	ug/L	89
13) Acetone	2.19	43	5277	7.226	ug/L	100
14) Carbon disulfide	2.31	76	18287	4.671	ug/L	96
15) Methyl Acetate	2.46	43	3789	4.343	ug/L	99
16) Methylene chloride	2.53	84	7886	5.040	ug/L	97
17) Methyl tert-butyl Ether	2.80	73	17713	4.440	ug/L	98
18) trans-1,2-Dichloroethene	2.79	96	6664	4.628	ug/L	91
19) 1,1-Dichloroethane	3.23	63	13460	4.842	ug/L	96
21) 2-Butanone	4.02	43	4786	6.818	ug/L	82
22) cis-1,2-Dichloroethene	3.96	96	7636	4.642	ug/L	96
23) Bromochloromethane	4.30	128	3365	4.551	ug/L	96
25) Chloroform	4.42	83	14590	4.764	ug/L	99
27) 1,2-Dichloroethane	5.18	62	10367	4.631	ug/L #	92
30) Cyclohexane	4.72	56	11757	4.450	ug/L	95
31) 1,1,1-Trichloroethane	4.66	97	11830	4.504	ug/L	99
32) Carbon tetrachloride	4.87	117	10699	4.676	ug/L	98
34) Benzene	5.14	78	28205	4.561	ug/L	100
35) Trichloroethene	5.96	95	7759	4.479	ug/L	96
36) Methylcyclohexane	6.17	83	12031	4.334	ug/L	95
40) 1,2-Dichloropropane	6.22	63	7528	4.576	ug/L #	93
41) Bromodichloromethane	6.55	83	9564	4.231	ug/L	93
42) cis-1,3-Dichloropropene	7.07	75	10993	4.225	ug/L	99
43) 4-Methyl-2-pentanone	7.27	43	11244	8.120	ug/L	98

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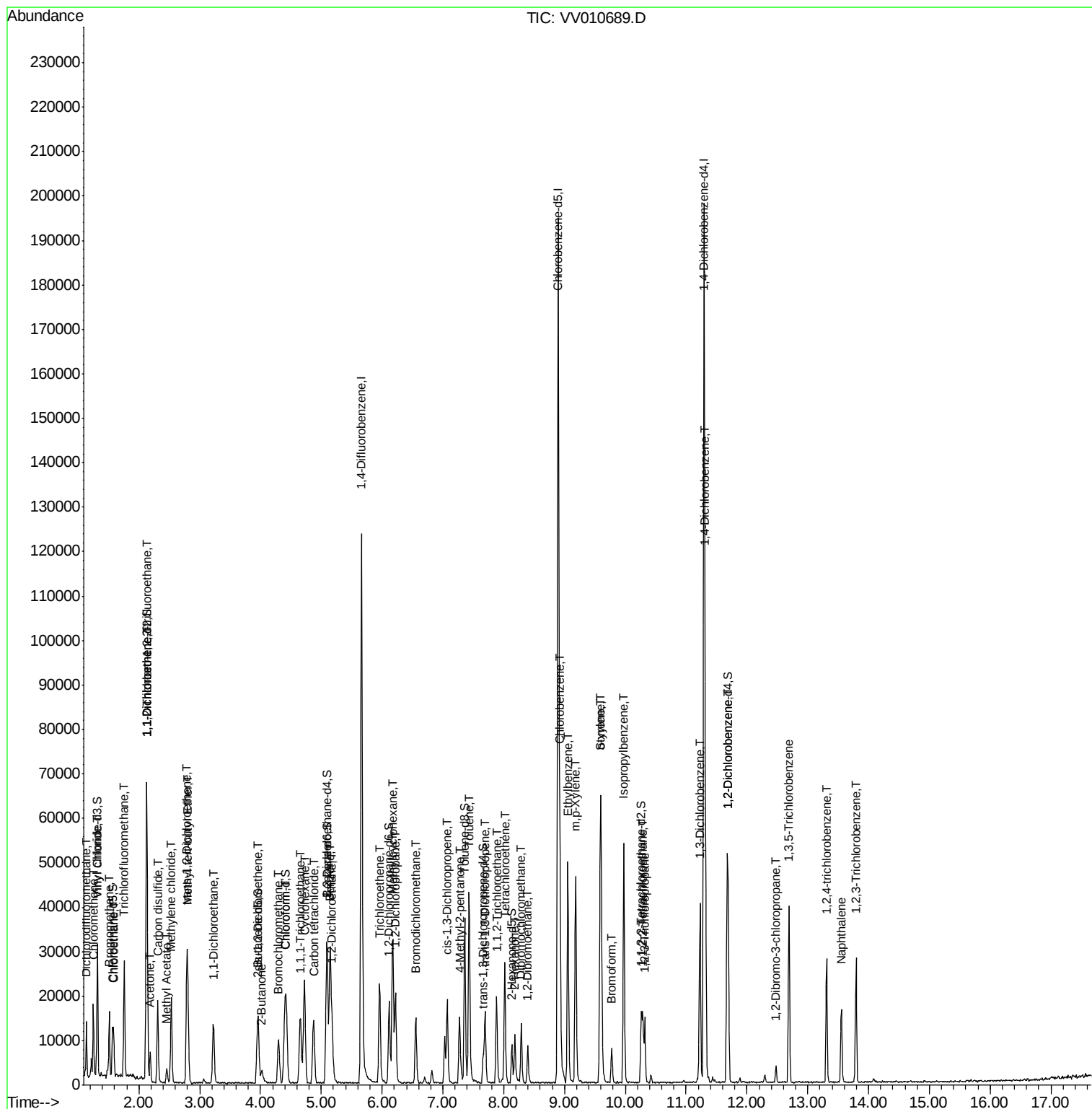
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	7.43	91	31080	4.425	ug/L	100
45) trans-1,3-Dichloropropene	7.69	75	8815	4.023	ug/L	97
46) 1,1,2-Trichloroethane	7.88	97	6008	4.446	ug/L	93
47) Tetrachloroethene	8.02	164	6139	4.894	ug/L	92
49) 2-Hexanone	8.18	43	7117	6.760	ug/L	98
50) Dibromochloromethane	8.29	129	6235	4.012	ug/L	92
51) 1,2-Dibromoethane	8.40	107	5520	4.229	ug/L	99
52) Chlorobenzene	8.93	112	20144	4.390	ug/L	93
53) Ethylbenzene	9.05	91	34756	4.268	ug/L	98
54) m,p-Xylene	9.18	106	13266	4.360	ug/L	91
55) o-xylene	9.59	106	12780	4.235	ug/L	97
56) Styrene	9.60	104	20428	4.002	ug/L	91
57) Isopropylbenzene	9.97	105	34683	4.307	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.29	83	7216	4.075	ug/L	92
59) 1,2,3-Trichloropropane	10.32	75	5664	4.099	ug/L	100
62) Bromoform	9.78	173	3335	4.134	ug/L #	97
63) 1,3-Dichlorobenzene	11.23	146	15219	4.615	ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	15469	4.592	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	14326	4.473	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.48	75	1261	4.243	ug/L	90
67) 1,3,5-Trichlorobenzene	12.69	180	10735	4.519	ug/L	97
68) 1,2,4-trichlorobenzene	13.31	180	7561	4.114	ug/L	96
69) Naphthalene	13.55	128	12771	3.246	ug/L #	95
70) 1,2,3-Trichlorobenzene	13.79	180	6743	3.911	ug/L	97

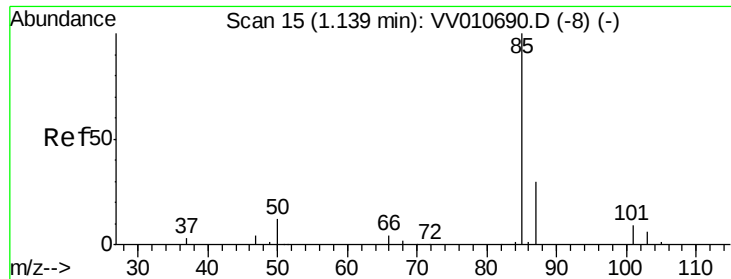
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 4.732 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV010689.D

Acq: 07 May 2019 11:44

Instrument :

MSVOA_V

ClientSampleId :

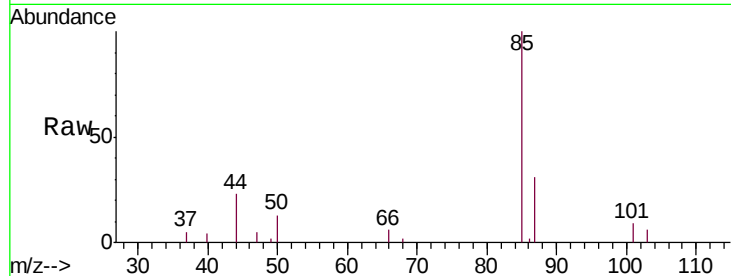
VSTD00562

Tgt Ion: 85 Resp: 6632

Ion Ratio Lower Upper

85 100

87 30.8 21.9 40.7



Abundance Ion 85.00 (84.70 to 85.70): VV010690.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV010690.D (-8) (-)

1.14

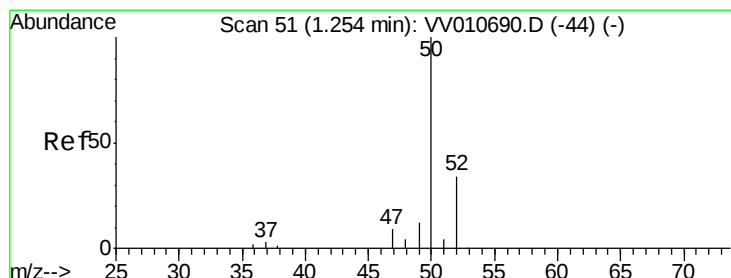
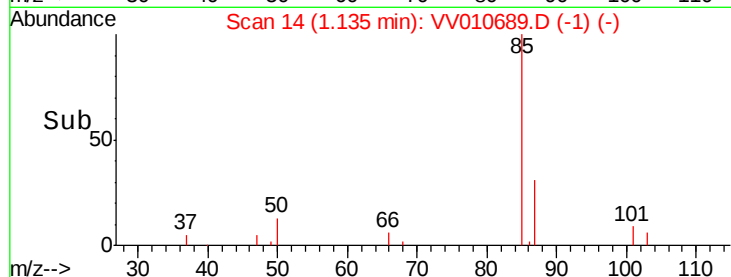
6000

4000

2000

0

Time-->



#3

Chloromethane

Concen: 4.829 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV010689.D

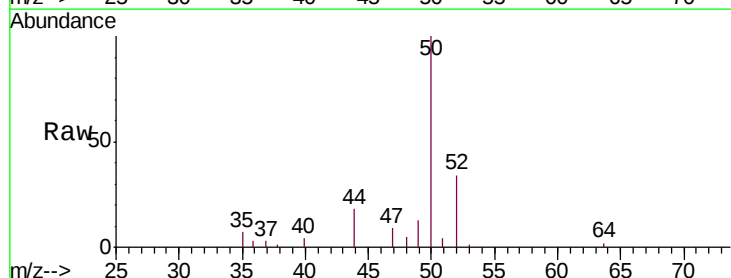
Acq: 07 May 2019 11:44

Tgt Ion: 50 Resp: 8233

Ion Ratio Lower Upper

50 100

52 34.2 23.7 43.9



Abundance Ion 50.00 (49.70 to 50.70): VV010690.D (-44) (-)

Ion 52.00 (51.70 to 52.70): VV010690.D (-44) (-)

1.25

10000

8000

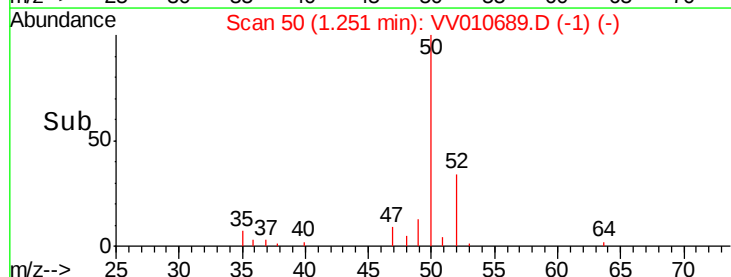
6000

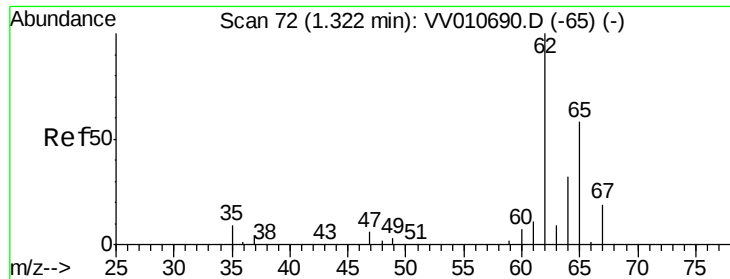
4000

2000

0

Time-->





#5

Vinyl chloride

Concen: 4.887 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV010689.D

Acq: 07 May 2019 11:44

Instrument :

MSVOA_V

ClientSampleId :

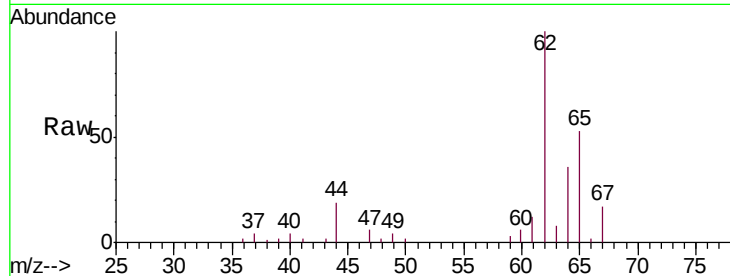
VSTD00562

Tgt Ion: 62 Resp: 9675

Ion Ratio Lower Upper

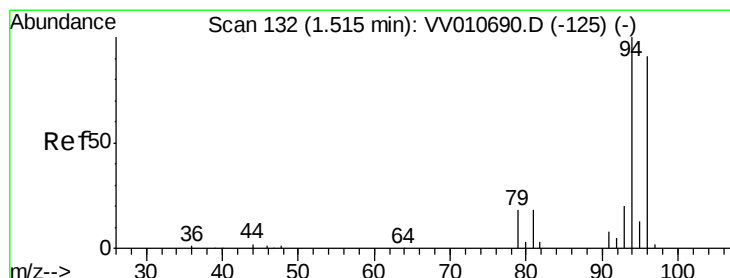
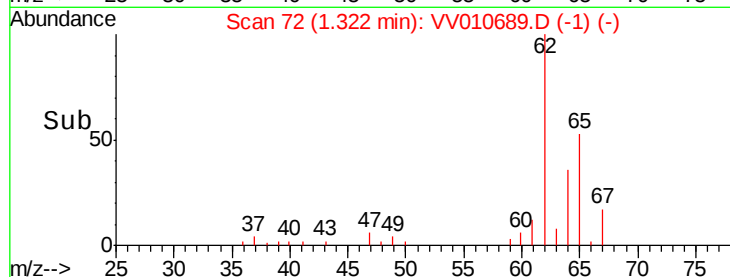
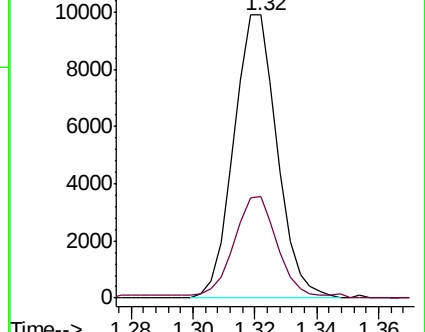
62 100

64 35.7 22.9 42.5



Abundance Ion 62.00 (61.70 to 62.70): VV010690.D (-65) (-)

Ion 64.00 (63.70 to 64.70): VV010690.D (-65) (-)



#6

Bromomethane

Concen: 4.734 ug/L

RT: 1.51 min Scan# 132

Delta R.T. -0.00 min

Lab File: VV010689.D

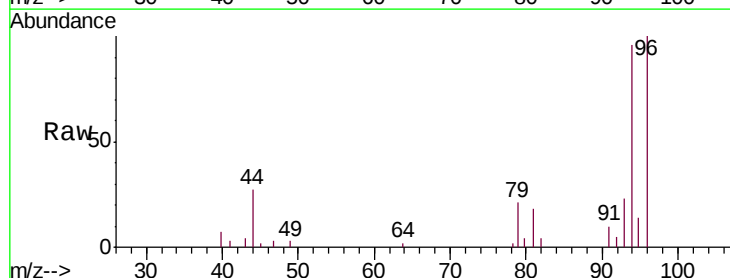
Acq: 07 May 2019 11:44

Tgt Ion: 94 Resp: 4545

Ion Ratio Lower Upper

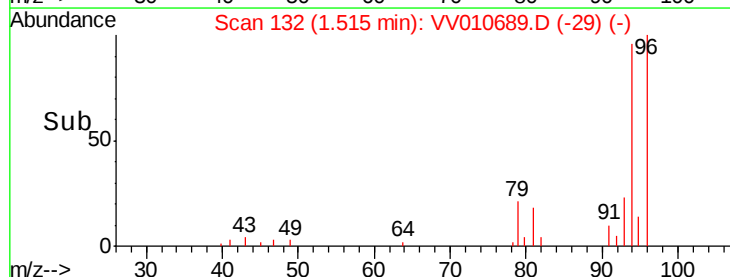
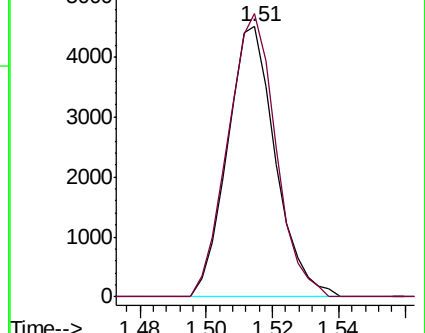
94 100

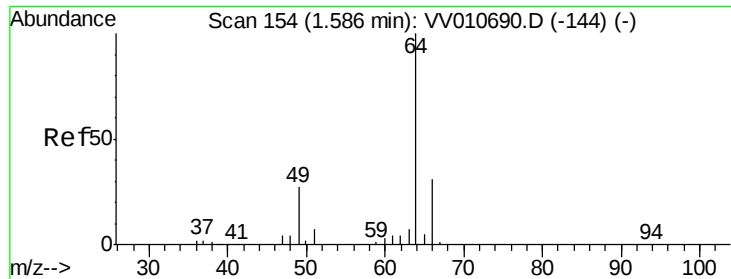
96 104.1 9.4 179.0



Abundance Ion 94.00 (93.70 to 94.70): VV010690.D (-125) (-)

Ion 96.00 (95.70 to 96.70): VV010690.D (-125) (-)





#8

Chloroethane

Concen: 4.843 ug/L

RT: 1.59 min Scan# 154

Delta R.T. -0.00 min

Lab File: VV010689.D

Acq: 07 May 2019 11:44

Instrument :

MSVOA_V

ClientSampleId :

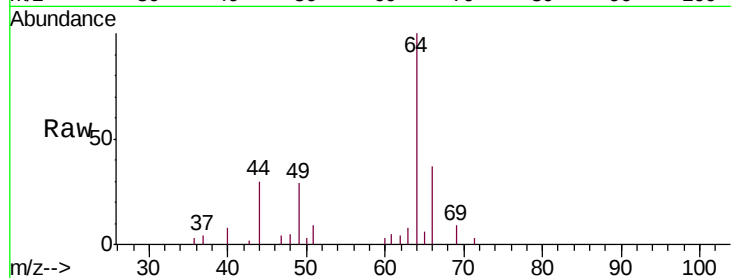
VSTD00562

Tgt Ion: 64 Resp: 5970

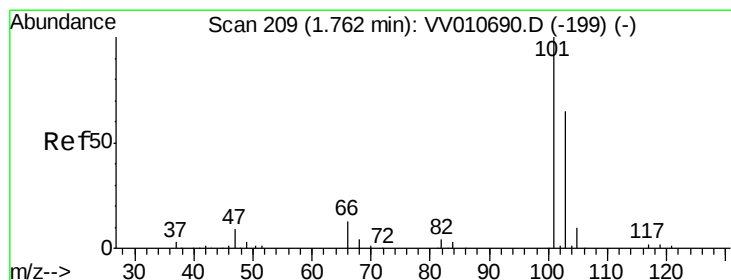
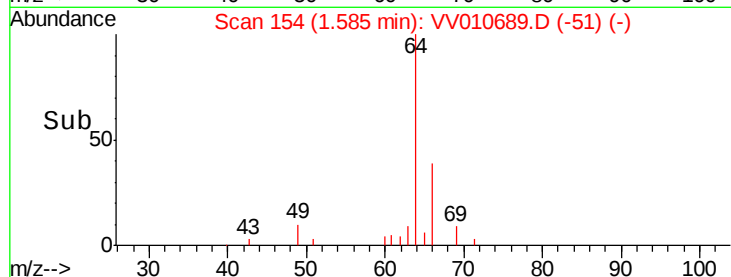
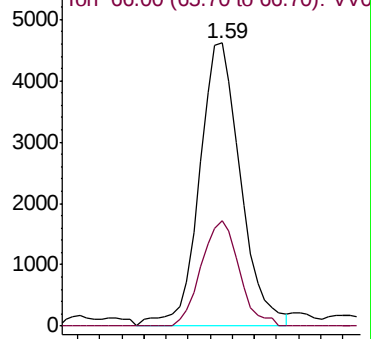
Ion Ratio Lower Upper

64 100

66 37.4 21.8 40.4



Abundance Ion 64.00 (63.70 to 64.70): VV010689.D (-144) (-)



#9

Trichlorofluoromethane

Concen: 4.866 ug/L

RT: 1.76 min Scan# 208

Delta R.T. -0.00 min

Lab File: VV010689.D

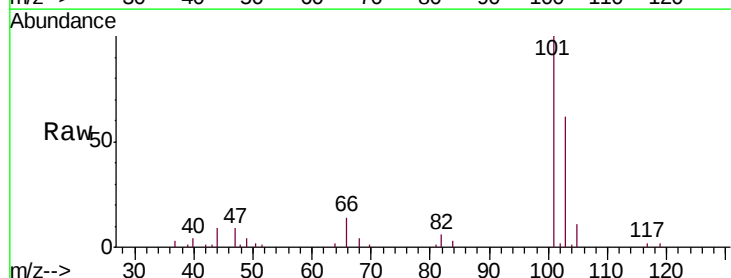
Acq: 07 May 2019 11:44

Tgt Ion: 101 Resp: 14499

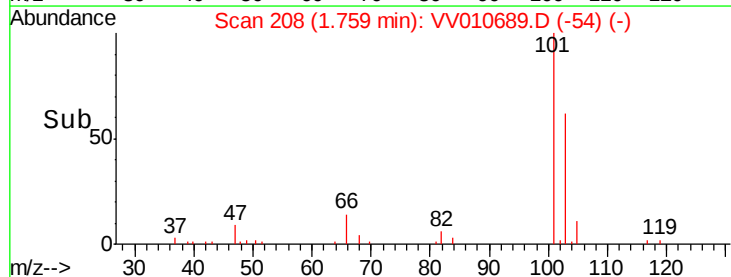
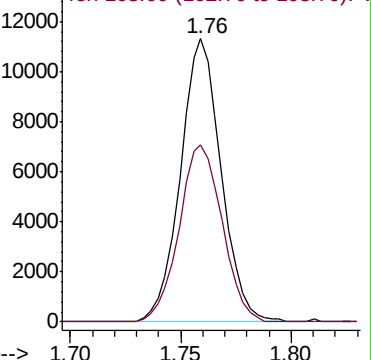
Ion Ratio Lower Upper

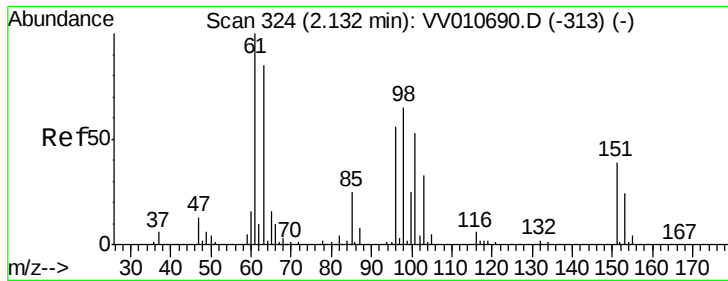
101 100

103 66.1 44.7 82.9



Abundance Ion 101.00 (100.70 to 101.70): VV010689.D (-199) (-)





#11

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

Concen: 4.930 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV010689.D

Acq: 07 May 2019 11:44

Instrument :

MSVOA_V

ClientSampleId :

VSTD00562

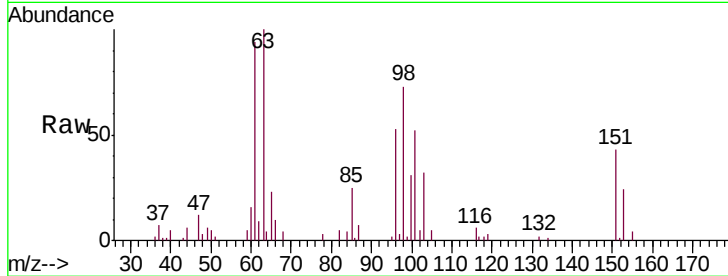
Tgt Ion: 101 Resp: 8388

Ion Ratio Lower Upper

101 100

85 46.5 36.0 54.0

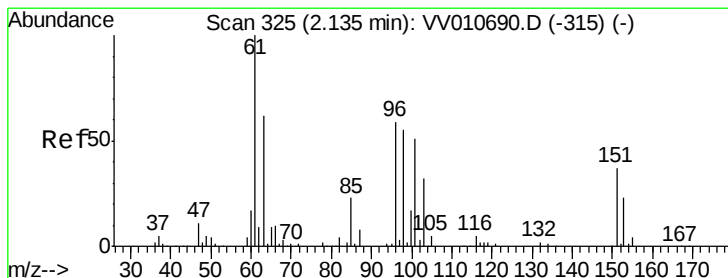
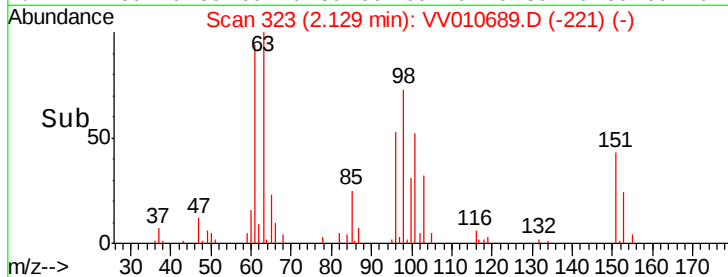
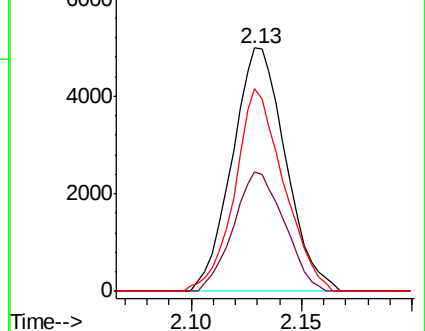
151 76.1 58.5 87.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.793 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV010689.D

Acq: 07 May 2019 11:44

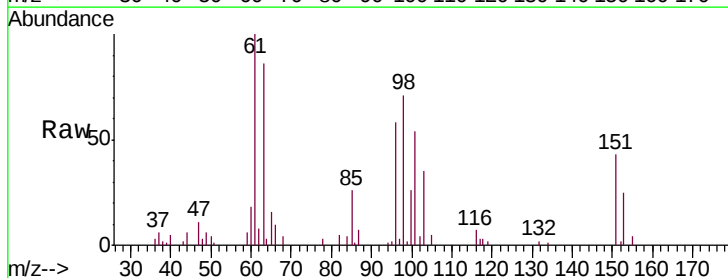
Tgt Ion: 96 Resp: 7636

Ion Ratio Lower Upper

96 100

61 171.1 120.3 223.3

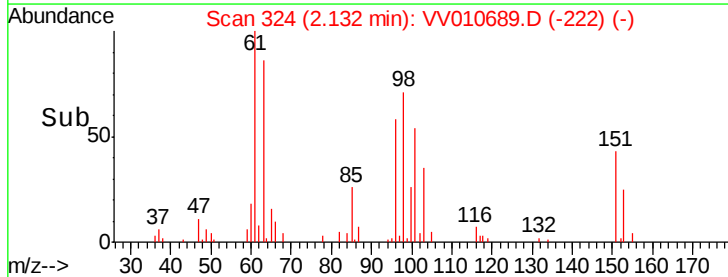
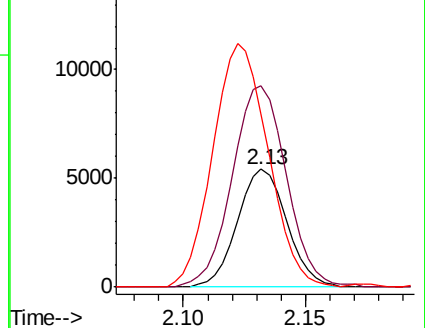
63 146.5 82.9 153.9

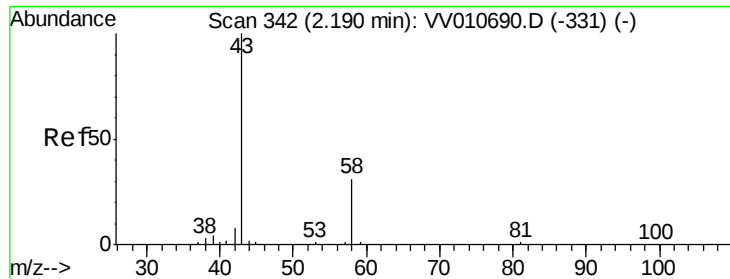


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 7.226 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.00 min

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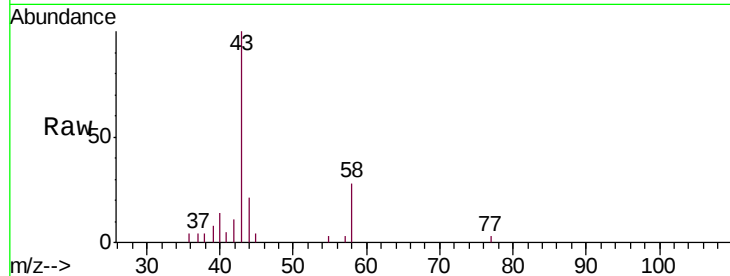
VSTD00562

Tgt Ion: 43 Resp: 5277

Ion Ratio Lower Upper

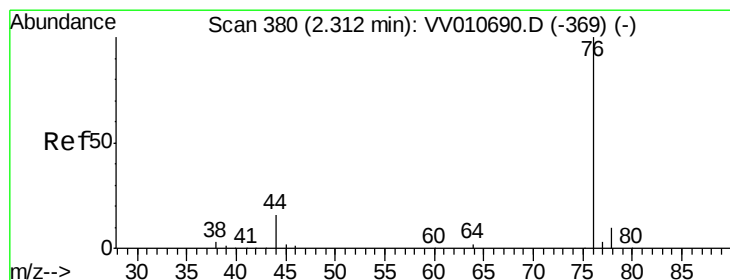
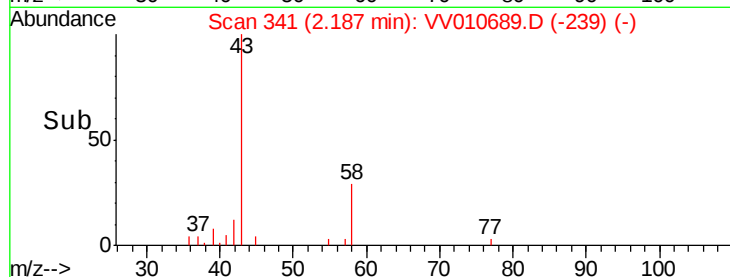
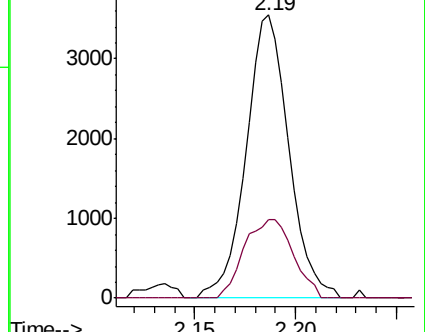
43 100

58 31.7 0.0 63.4



Abundance Ion 43.00 (42.70 to 43.70): VV010689.D (-331) (-)

Ion 58.00 (57.70 to 58.70): VV010689.D (-331) (-)



#14

Carbon disulfide

Concen: 4.671 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VV010689.D

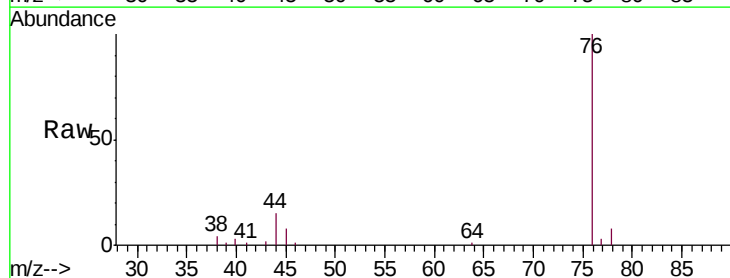
Acq: 07 May 2019 11:44

Tgt Ion: 76 Resp: 18287

Ion Ratio Lower Upper

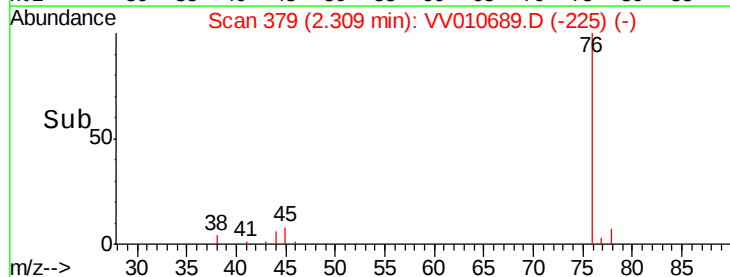
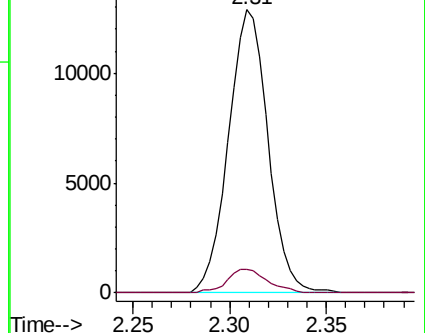
76 100

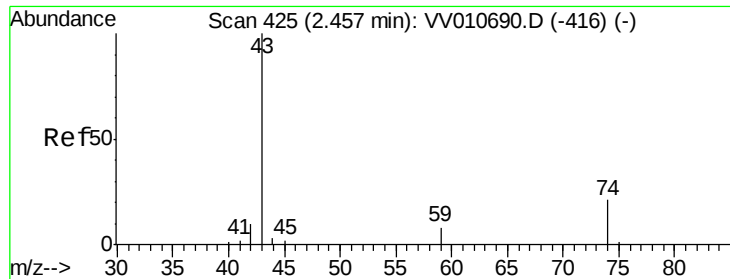
78 8.3 7.8 11.8



Abundance Ion 76.00 (75.70 to 76.70): VV010689.D (-225) (-)

Ion 78.00 (77.70 to 78.70): VV010689.D (-225) (-)

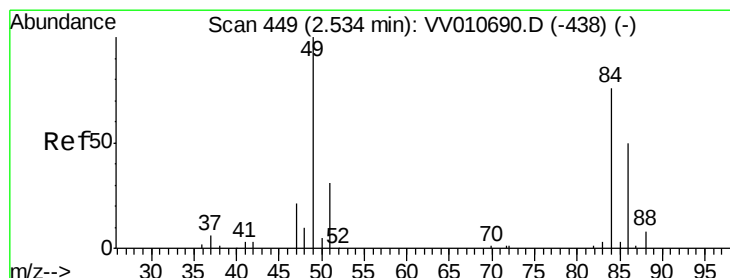
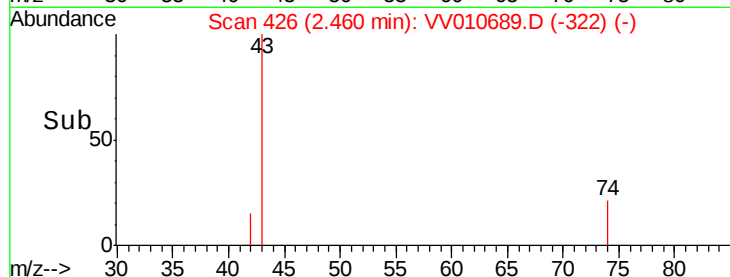
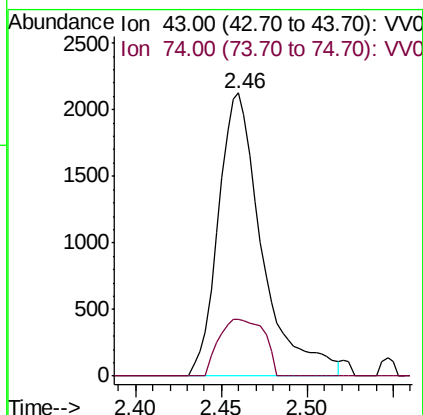
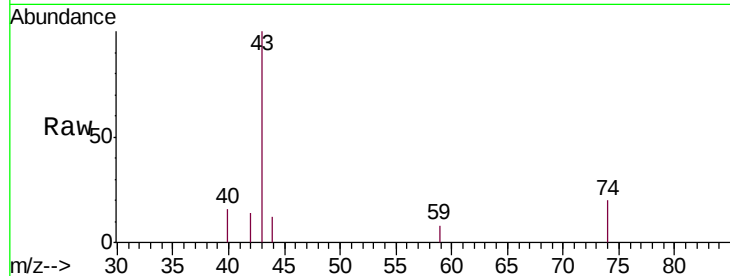




#15
Methyl Acetate
Concen: 4.343 ug/L
RT: 2.46 min Scan# 426
Delta R.T. 0.00 min
Lab File: VV010689.D
Acq: 07 May 2019 11:44

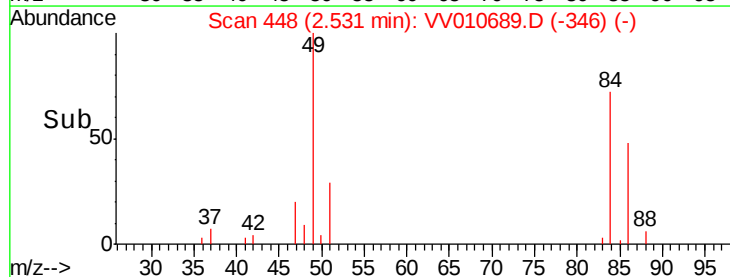
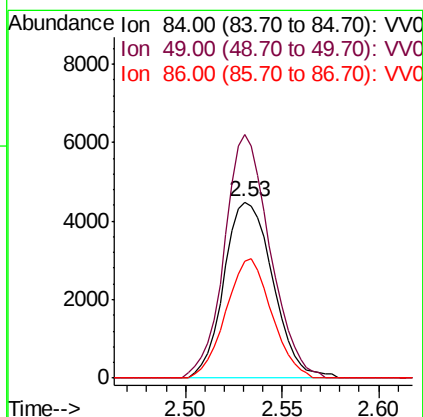
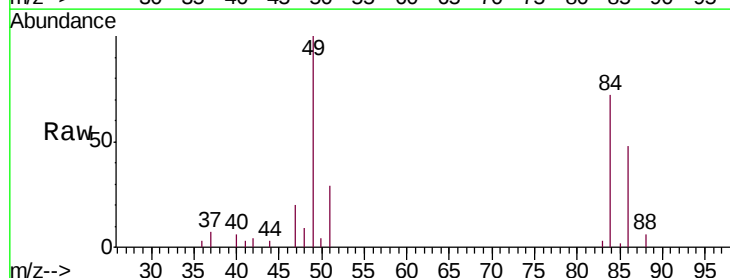
Instrument :
MSVOA_V
ClientSampleId :
VSTD00562

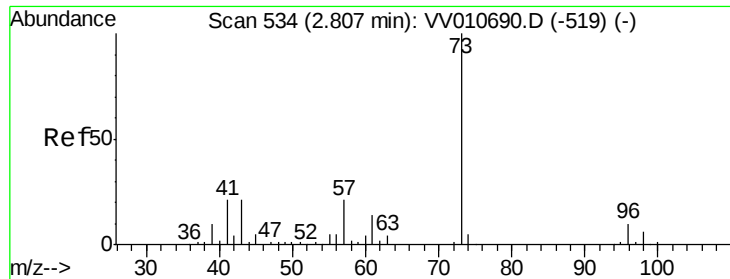
Tgt Ion: 43 Resp: 3789
Ion Ratio Lower Upper
43 100
74 20.5 17.0 25.4



#16
Methylene chloride
Concen: 5.040 ug/L
RT: 2.53 min Scan# 448
Delta R.T. -0.00 min
Lab File: VV010689.D
Acq: 07 May 2019 11:44

Tgt Ion: 84 Resp: 7886
Ion Ratio Lower Upper
84 100
49 138.4 92.9 172.5
86 66.5 46.5 86.5



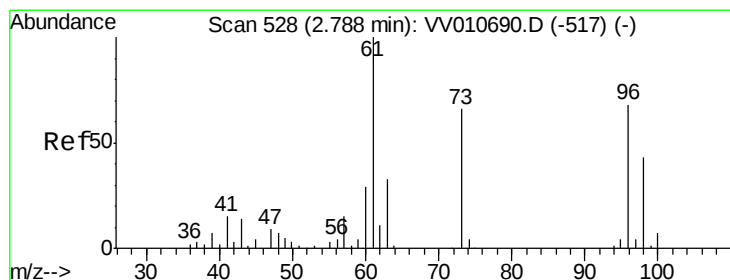
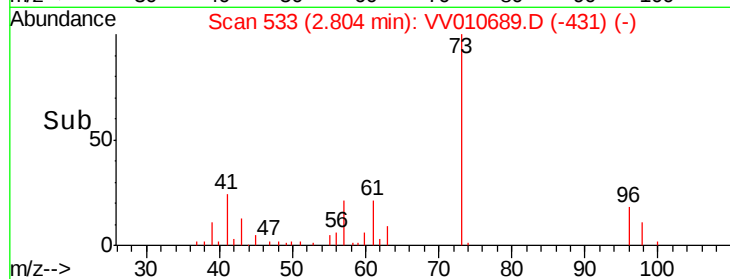
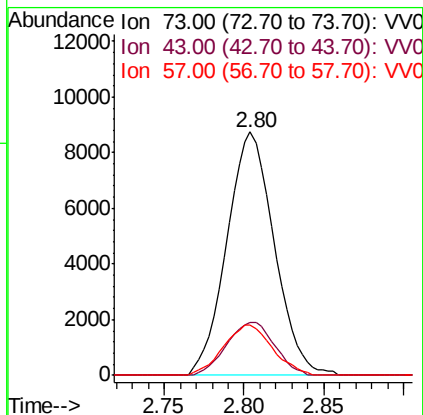
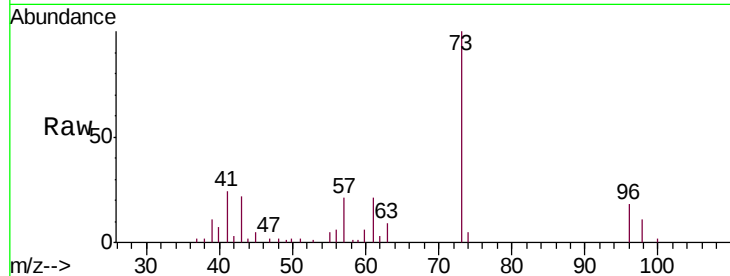


#17

Methyl tert-butyl Ether
 Concen: 4.440 ug/L
 RT: 2.80 min Scan# 533
 Delta R.T. -0.00 min
 Lab File: VV010689.D
 Acq: 07 May 2019 11:44

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00562

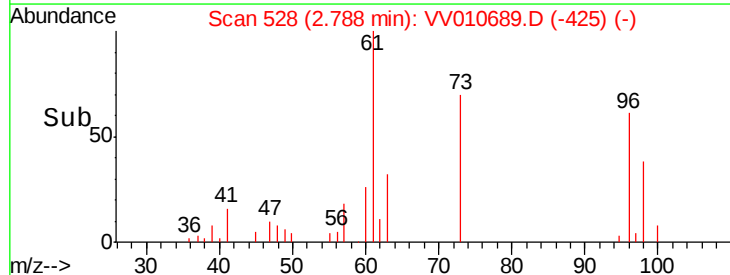
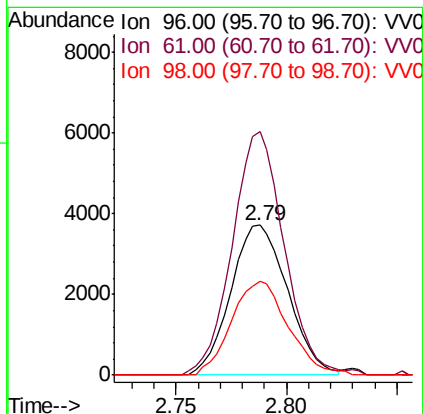
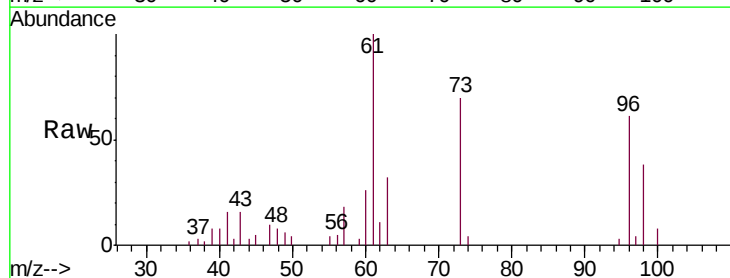
Tgt Ion: 73 Resp: 17713
 Ion Ratio Lower Upper
 73 100
 43 22.0 16.6 25.0
 57 21.5 17.4 26.2

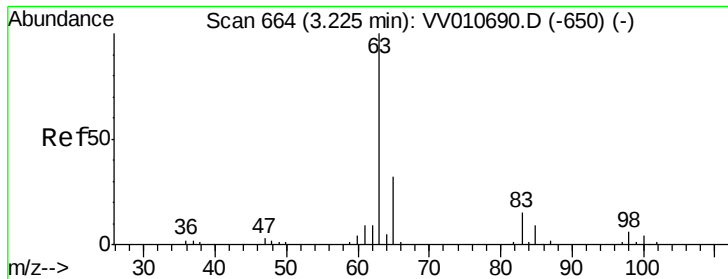


#18

trans-1,2-Dichloroethene
 Concen: 4.628 ug/L
 RT: 2.79 min Scan# 528
 Delta R.T. -0.00 min
 Lab File: VV010689.D
 Acq: 07 May 2019 11:44

Tgt Ion: 96 Resp: 6664
 Ion Ratio Lower Upper
 96 100
 61 162.8 102.8 190.8
 98 62.3 44.0 81.6

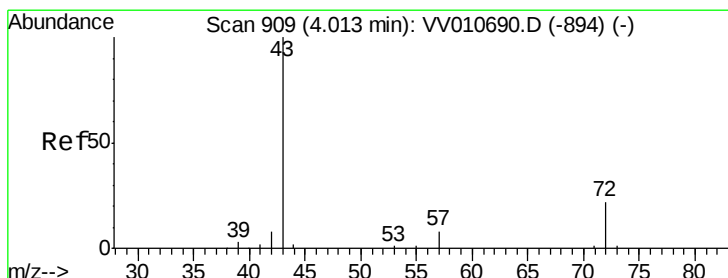
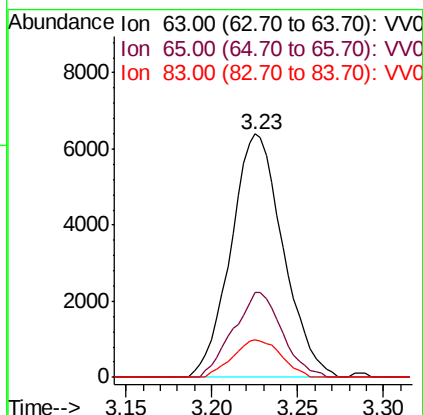
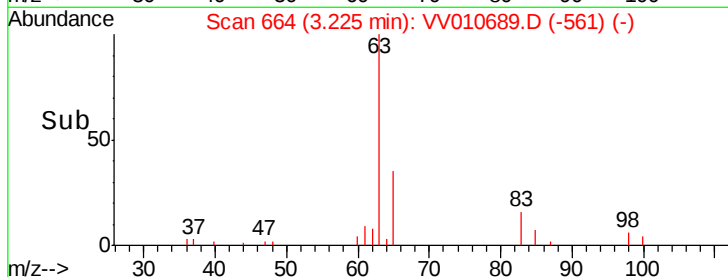
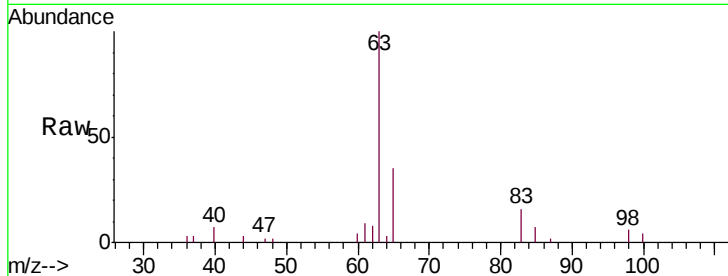




#19
 1,1-Dichloroethane
 Concen: 4.842 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. -0.00 min
 Lab File: VV010689.D
 Acq: 07 May 2019 11:44

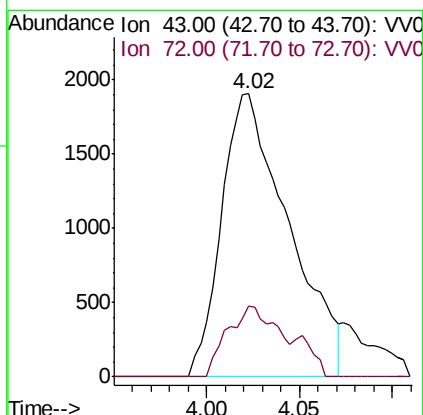
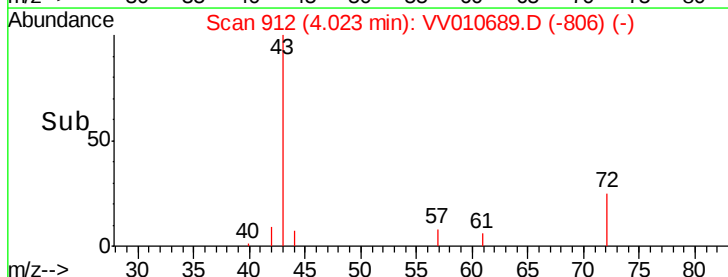
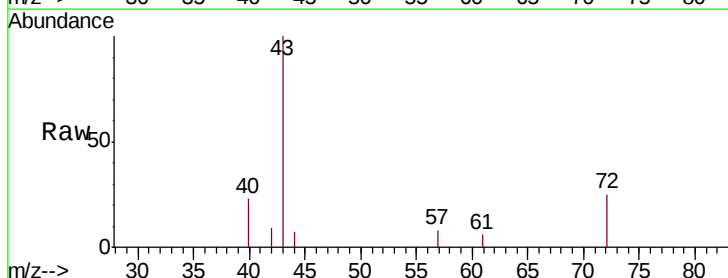
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00562

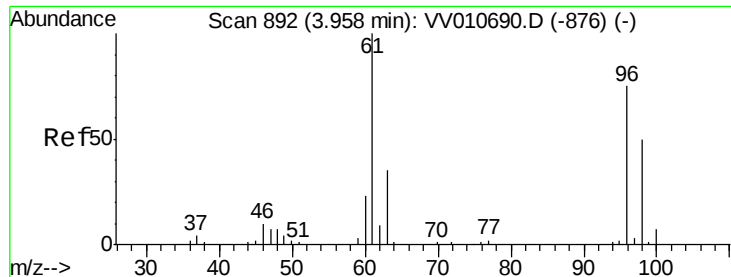
Tgt Ion: 63 Resp: 13460
 Ion Ratio Lower Upper
 63 100
 65 34.8 22.5 41.7
 83 15.5 10.3 19.1



#21
 2-Butanone
 Concen: 6.818 ug/L
 RT: 4.02 min Scan# 912
 Delta R.T. 0.01 min
 Lab File: VV010689.D
 Acq: 07 May 2019 11:44

Tgt Ion: 43 Resp: 4786
 Ion Ratio Lower Upper
 43 100
 72 13.8 11.2 33.6



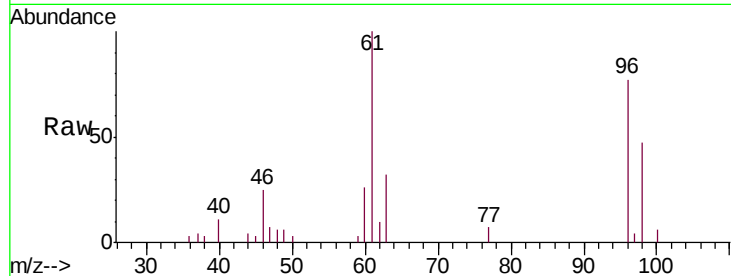


#22

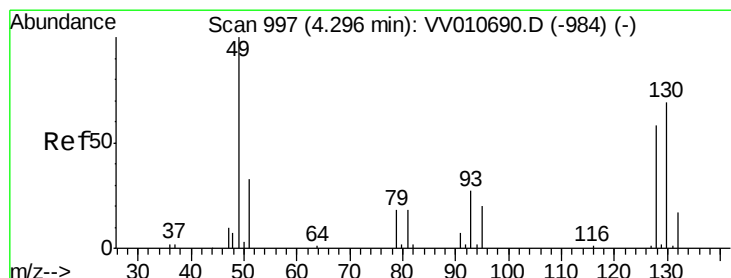
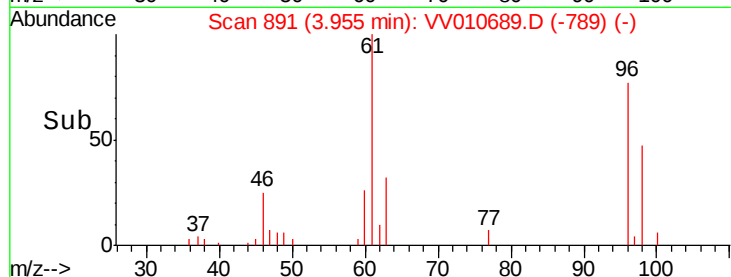
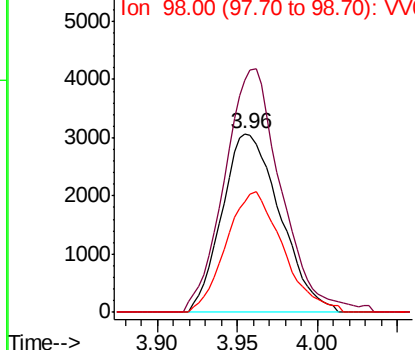
cis-1,2-Dichloroethene
Concen: 4.642 ug/L
RT: 3.96 min Scan# 891
Delta R.T. -0.00 min
Lab File: VV010689.D
Acq: 07 May 2019 11:44

Instrument :
MSVOA_V
ClientSampled :
VSTD00562

Tgt Ion: 96 Resp: 7636
Ion Ratio Lower Upper
96 100
61 130.3 93.9 174.5
98 61.9 46.5 86.5



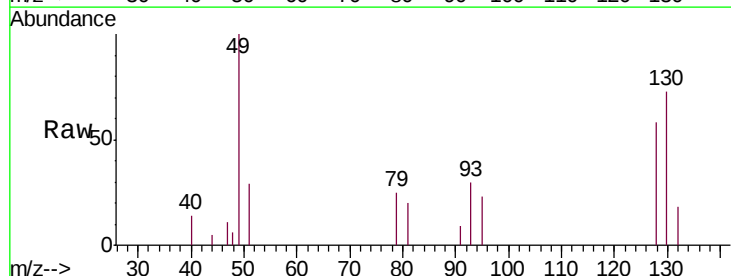
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



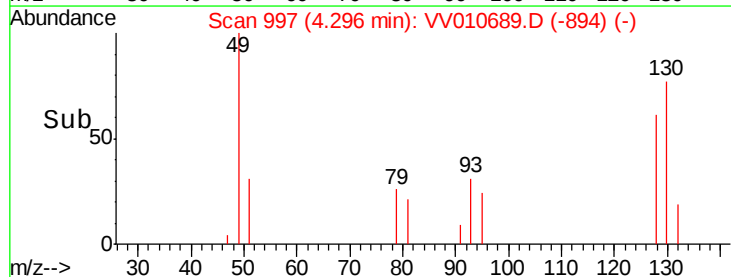
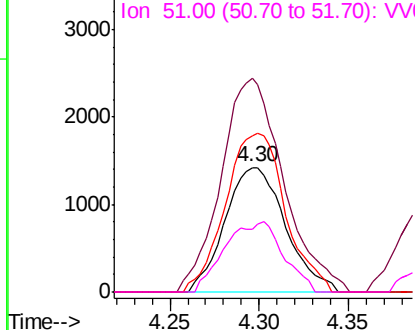
#23

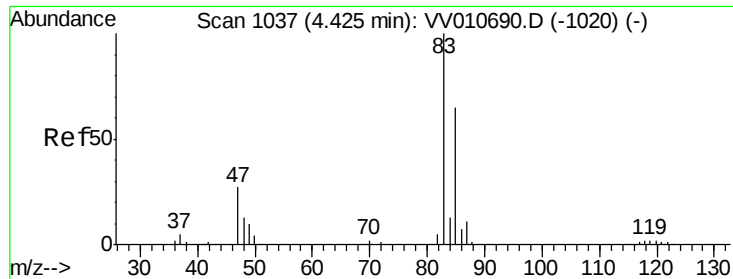
Bromochloromethane
Concen: 4.551 ug/L
RT: 4.30 min Scan# 997
Delta R.T. -0.00 min
Lab File: VV010689.D
Acq: 07 May 2019 11:44

Tgt Ion: 128 Resp: 3365
Ion Ratio Lower Upper
128 100
49 171.5 122.6 227.8
130 125.7 84.0 156.0
51 50.2 45.0 67.4



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VV0
Ion 130.00 (129.70 to 130.70): V
Ion 51.00 (50.70 to 51.70): VV0

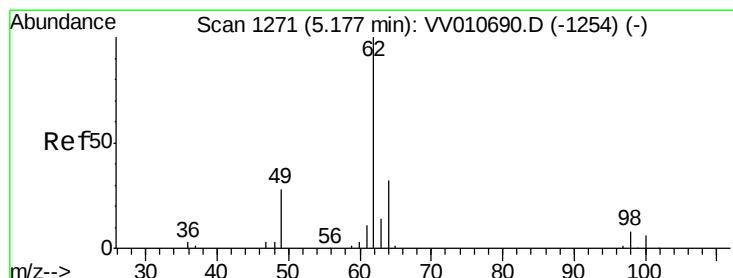
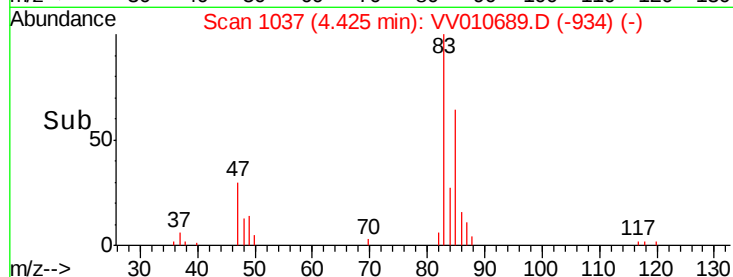
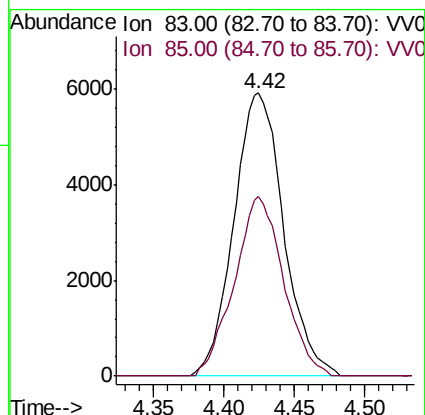
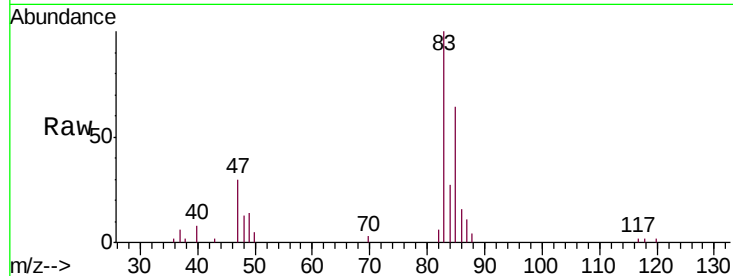




#25
Chloroform
Concen: 4.764 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VV010689.D
Acq: 07 May 2019 11:44

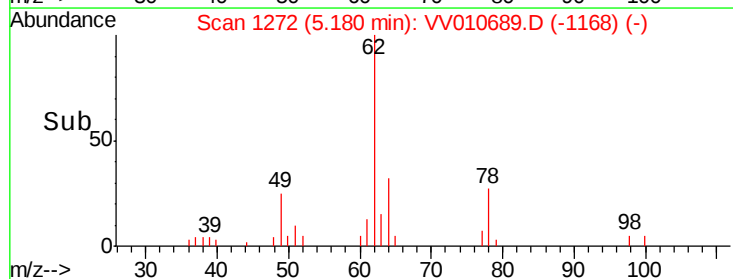
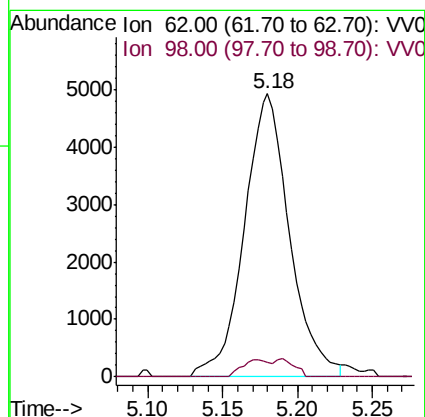
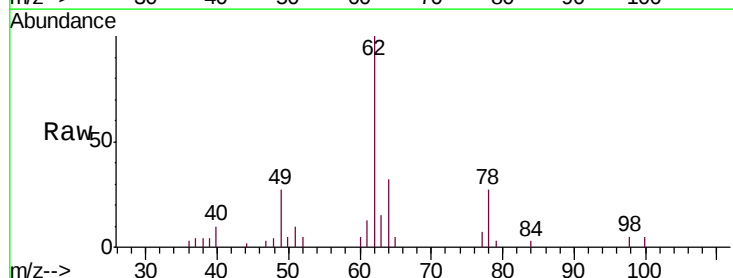
Instrument :
MSVOA_V
ClientSampleId :
VSTD00562

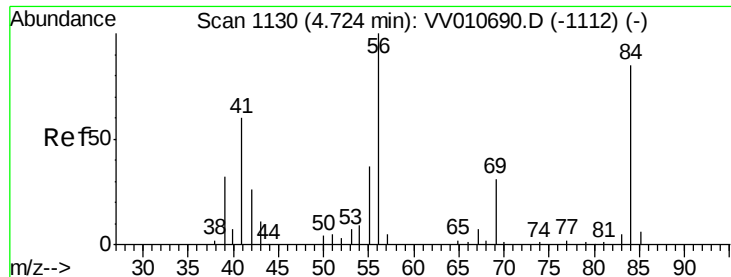
Tgt Ion: 83 Resp: 14590
Ion Ratio Lower Upper
83 100
85 62.6 44.6 82.8



#27
1,2-Dichloroethane
Concen: 4.631 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VV010689.D
Acq: 07 May 2019 11:44

Tgt Ion: 62 Resp: 10367
Ion Ratio Lower Upper
62 100
98 5.1 6.3 9.5#

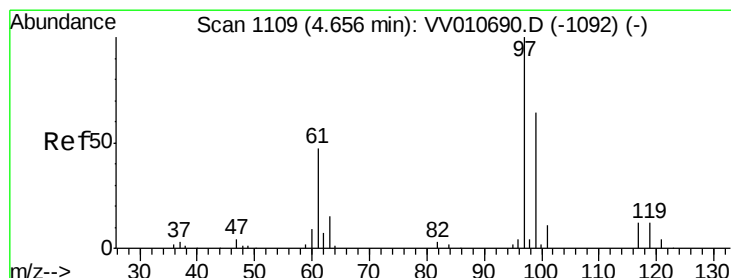
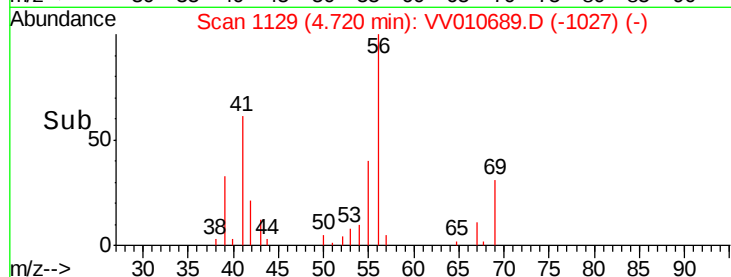
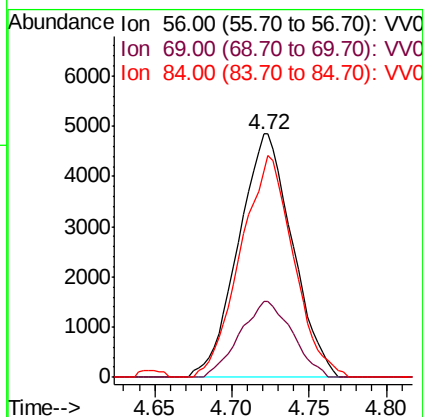
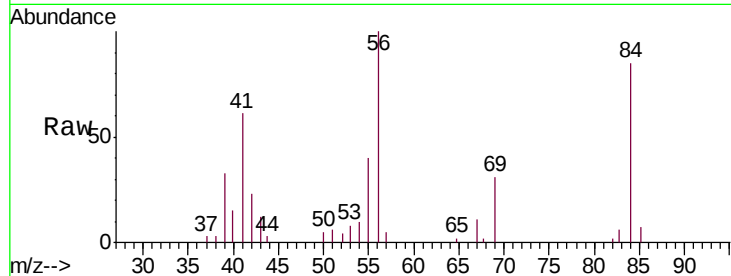




#30
Cyclohexane
Concen: 4.450 ug/L
RT: 4.72 min Scan# 1129
Delta R.T. -0.00 min
Lab File: VV010689.D
Acq: 07 May 2019 11:44

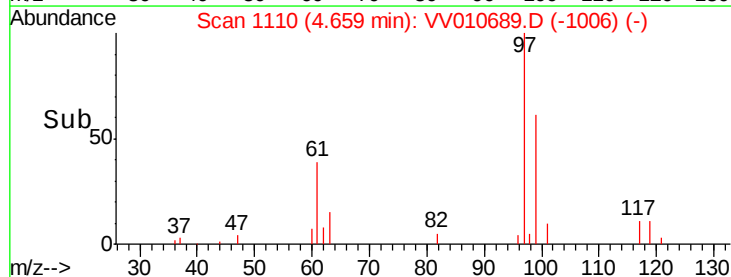
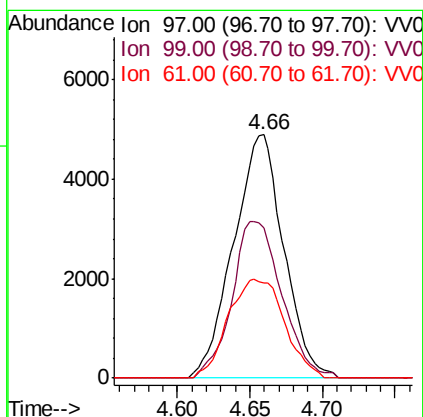
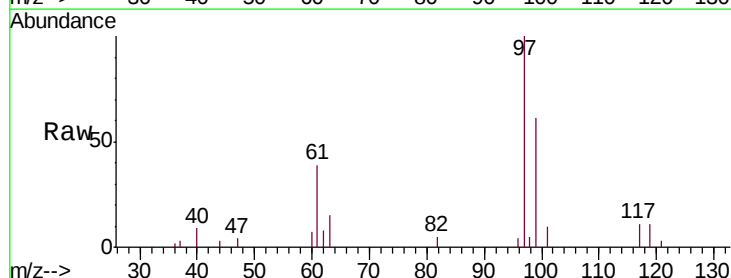
Instrument :
MSVOA_V
ClientSampleId :
VSTD00562

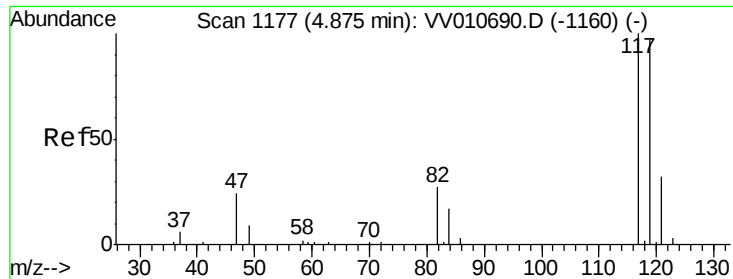
Tgt Ion: 56 Resp: 11757
Ion Ratio Lower Upper
56 100
69 30.3 24.2 36.4
84 89.3 66.5 99.7



#31
1,1,1-Trichloroethane
Concen: 4.504 ug/L
RT: 4.66 min Scan# 1110
Delta R.T. 0.00 min
Lab File: VV010689.D
Acq: 07 May 2019 11:44

Tgt Ion: 97 Resp: 11830
Ion Ratio Lower Upper
97 100
99 63.3 50.2 75.2
61 45.4 36.7 55.1





#32

Carbon tetrachloride

Concen: 4.676 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. -0.00 min

Lab File: VV010689.D

Acq: 07 May 2019 11:44

Instrument :

MSVOA_V

ClientSampleId :

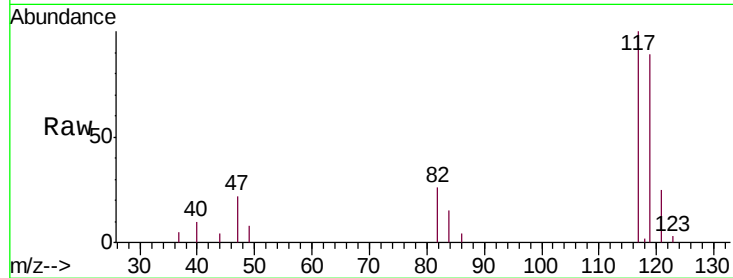
VSTD00562

Tgt Ion:117 Resp: 10699

Ion Ratio Lower Upper

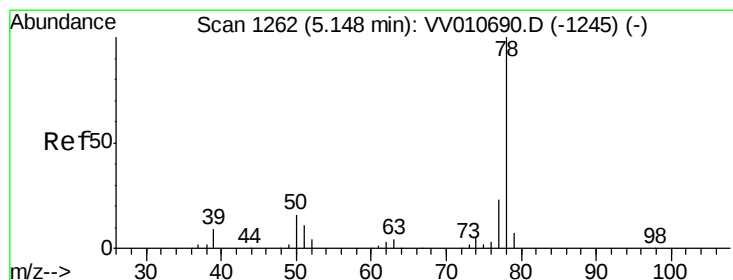
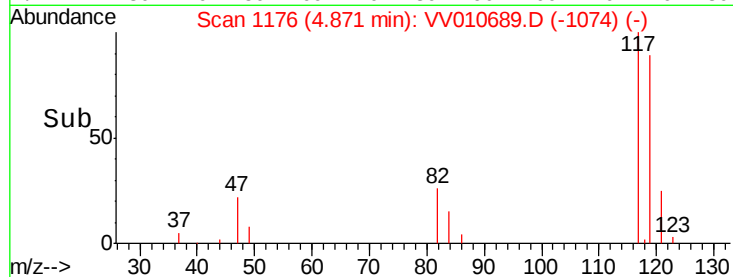
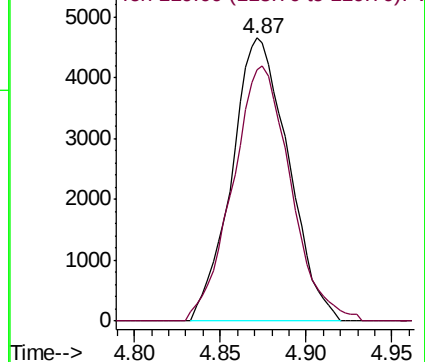
117 100

119 92.0 74.9 112.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 4.561 ug/L

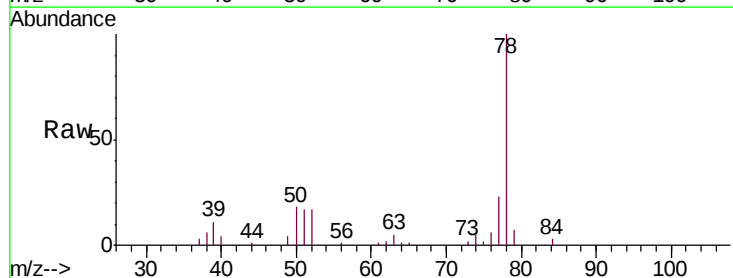
RT: 5.14 min Scan# 1261

Delta R.T. -0.00 min

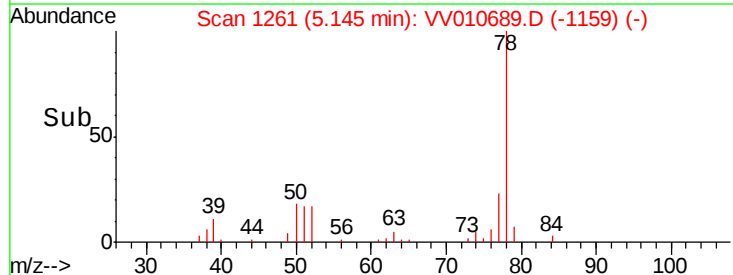
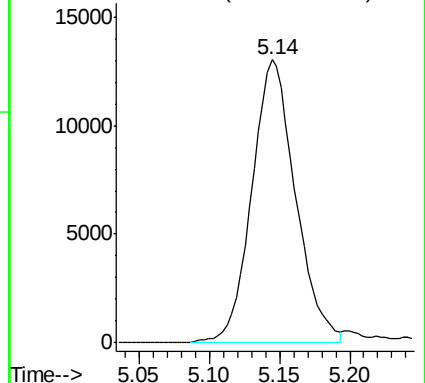
Lab File: VV010689.D

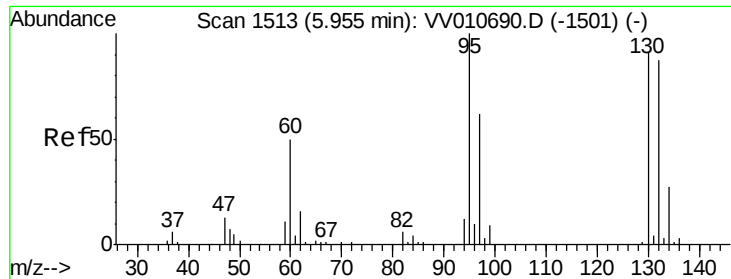
Acq: 07 May 2019 11:44

Tgt Ion: 78 Resp: 28205



Abundance Ion 78.00 (77.70 to 78.70): VV0

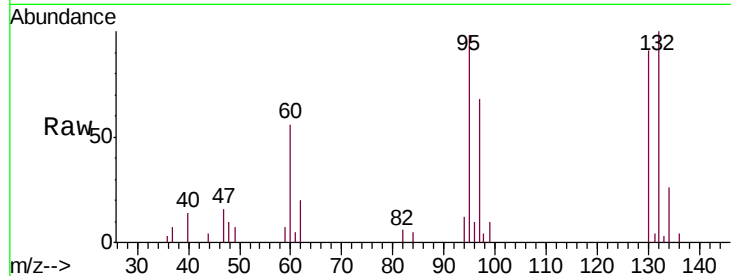




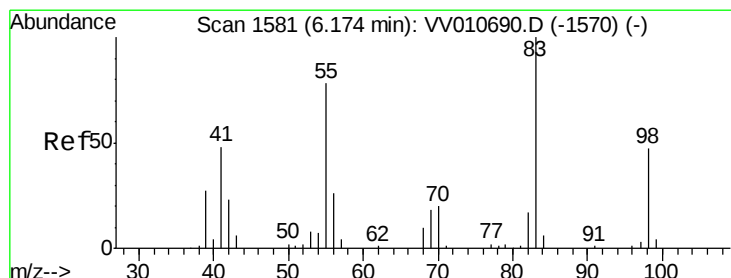
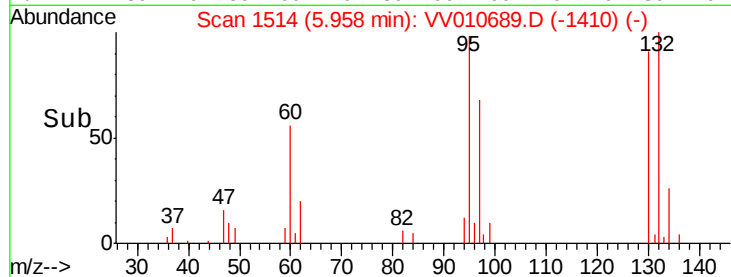
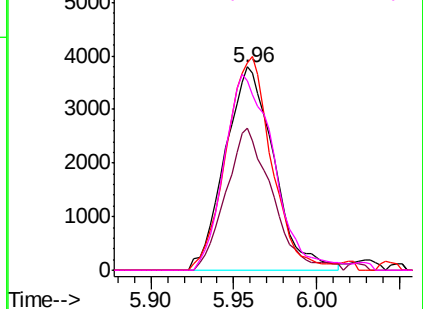
#35
 Trichloroethene
 Concen: 4.479 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: VV010689.D
 Acq: 07 May 2019 11:44

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00562

Tgt Ion: 95 Resp: 7759
 Ion Ratio Lower Upper
 95 100
 97 64.8 44.3 82.3
 132 97.4 62.4 115.8
 130 97.9 68.5 127.3

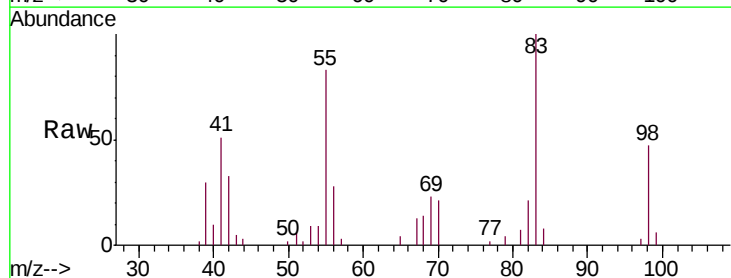


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

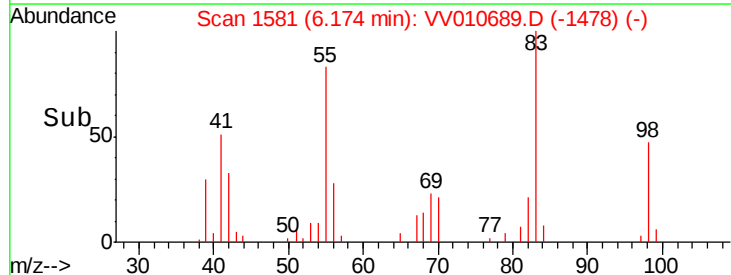
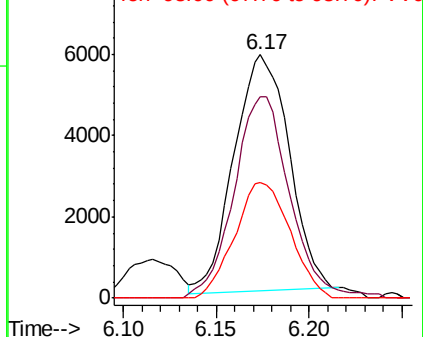


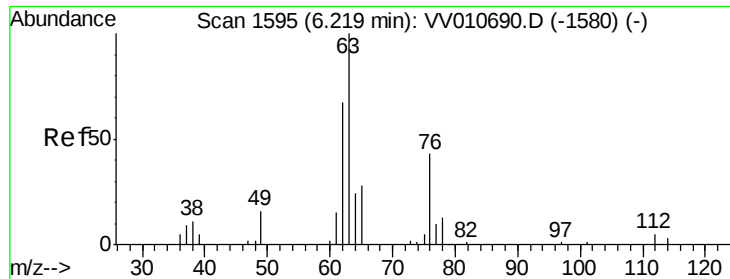
#36
 Methylcyclohexane
 Concen: 4.334 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. -0.00 min
 Lab File: VV010689.D
 Acq: 07 May 2019 11:44

Tgt Ion: 83 Resp: 12031
 Ion Ratio Lower Upper
 83 100
 55 85.6 64.6 96.8
 98 49.1 37.7 56.5



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

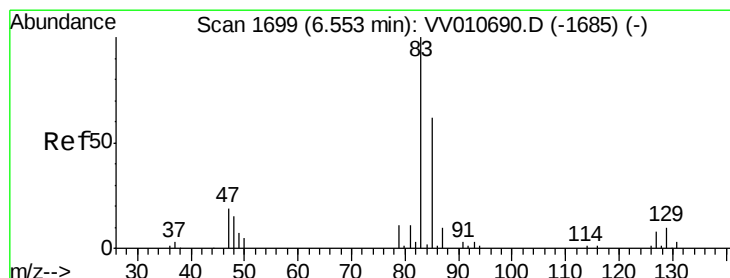
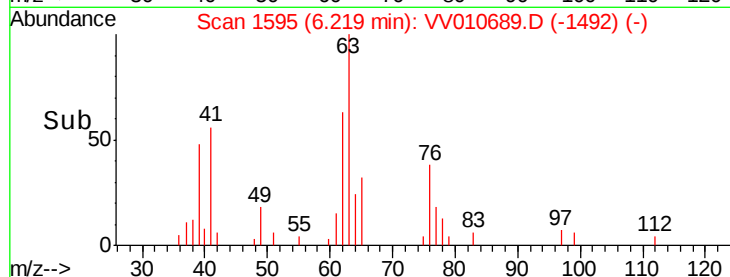
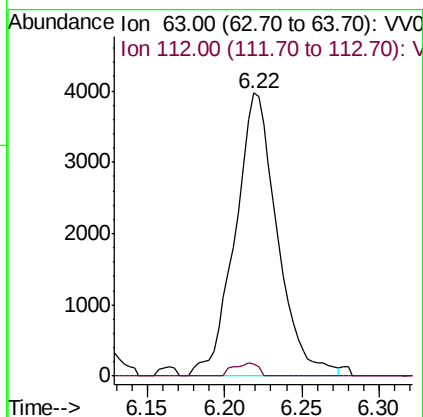
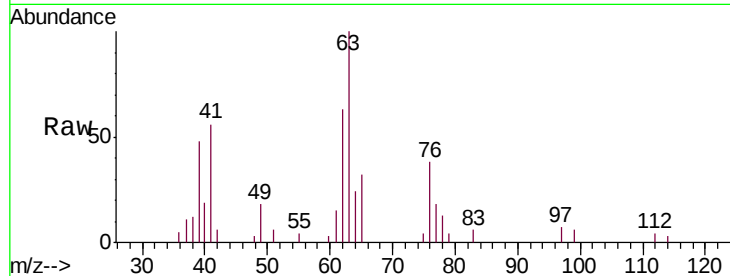




#40
 1,2-Dichloropropane
 Concen: 4.576 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. -0.00 min
 Lab File: VV010689.D
 Acq: 07 May 2019 11:44

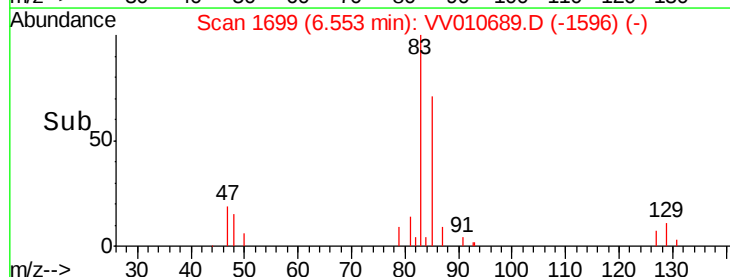
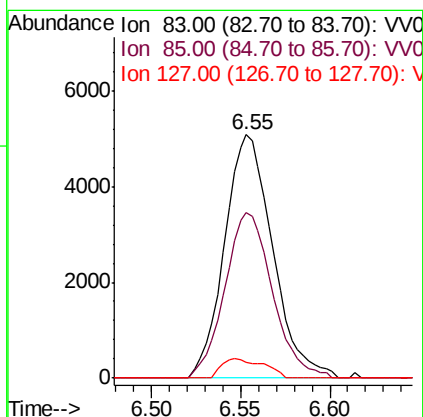
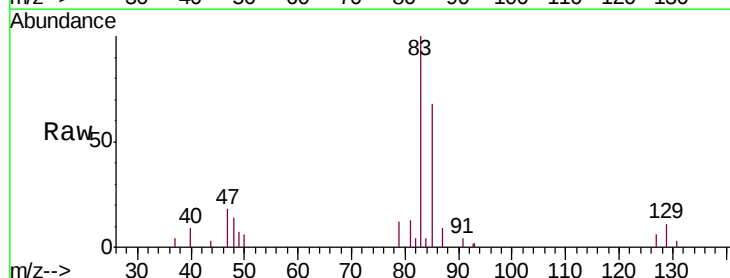
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00562

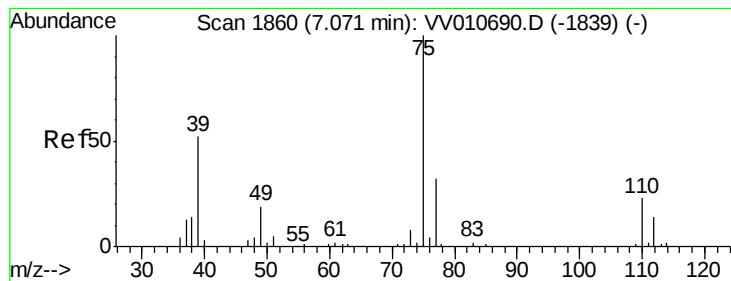
Tgt Ion: 63 Resp: 7528
 Ion Ratio Lower Upper
 63 100
 112 2.0 3.4 5.2#



#41
 Bromodichloromethane
 Concen: 4.231 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. -0.00 min
 Lab File: VV010689.D
 Acq: 07 May 2019 11:44

Tgt Ion: 83 Resp: 9564
 Ion Ratio Lower Upper
 83 100
 85 68.1 43.5 80.7
 127 6.4 6.2 9.4



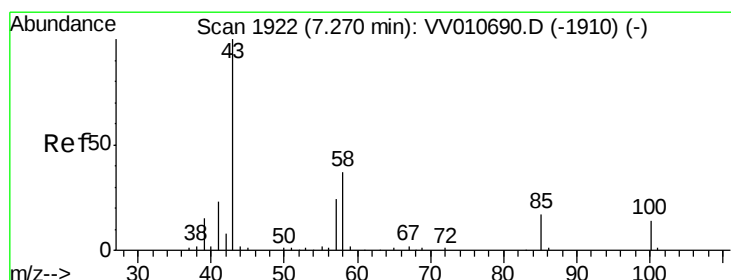
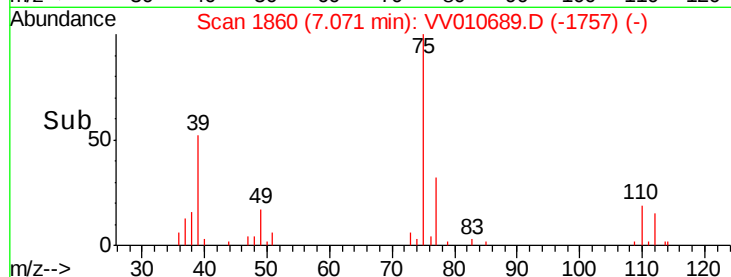
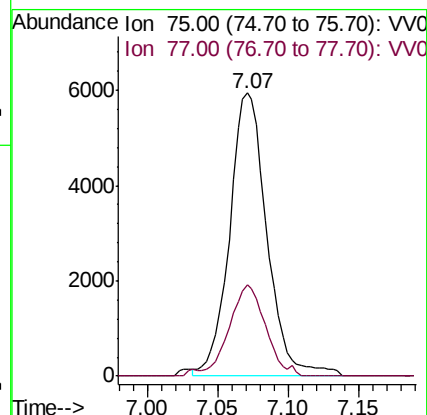
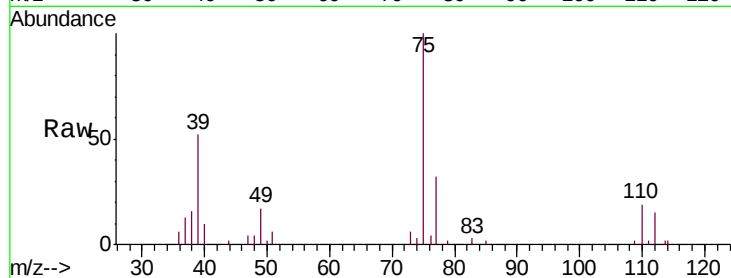


#42

cis-1,3-Dichloropropene
 Concen: 4.225 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. -0.00 min
 Lab File: VV010689.D
 Acq: 07 May 2019 11:44

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00562

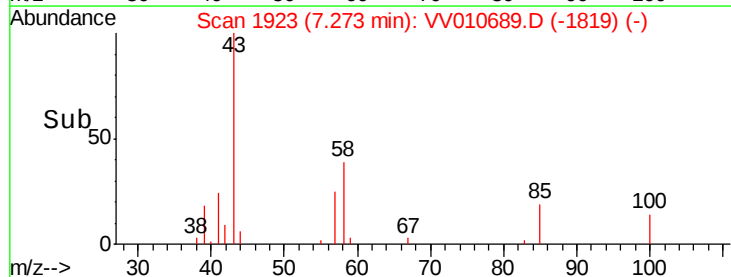
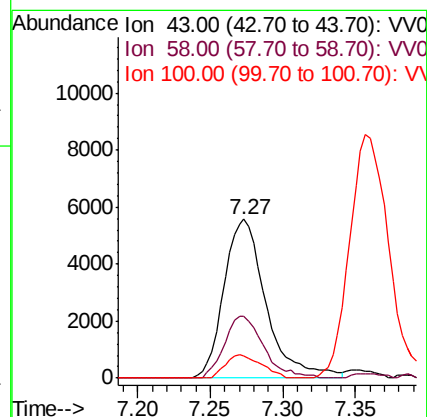
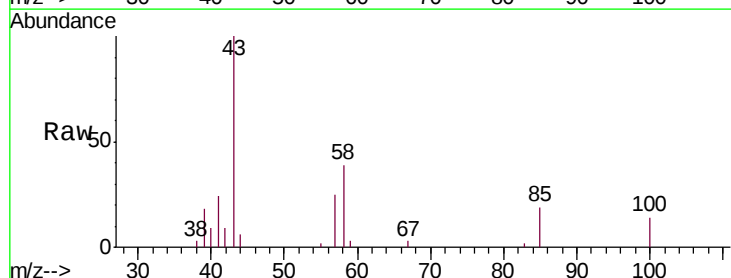
Tgt Ion: 75 Resp: 10993
 Ion Ratio Lower Upper
 75 100
 77 32.1 22.3 41.3

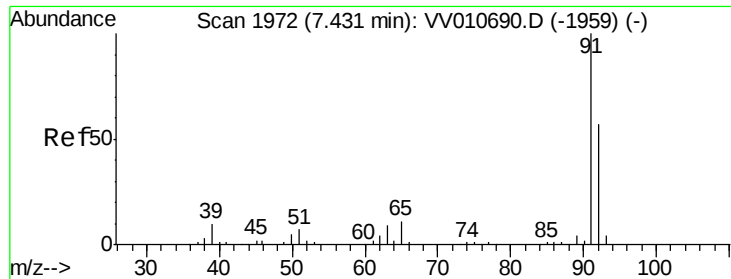


#43

4-Methyl-2-pentanone
 Concen: 8.120 ug/L
 RT: 7.27 min Scan# 1923
 Delta R.T. 0.00 min
 Lab File: VV010689.D
 Acq: 07 May 2019 11:44

Tgt Ion: 43 Resp: 11244
 Ion Ratio Lower Upper
 43 100
 58 34.6 28.1 42.1
 100 12.5 11.0 16.6





#44

Toluene

Concen: 4.425 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV010689.D

Acq: 07 May 2019 11:44

Instrument :

MSVOA_V

ClientSampleId :

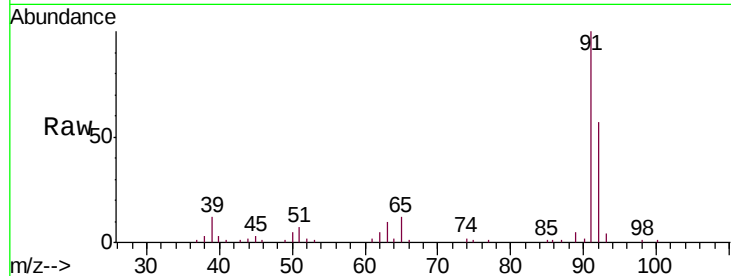
VSTD00562

Tgt Ion: 91 Resp: 31080

Ion Ratio Lower Upper

91 100

92 57.4 40.1 74.5



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0

20000

15000

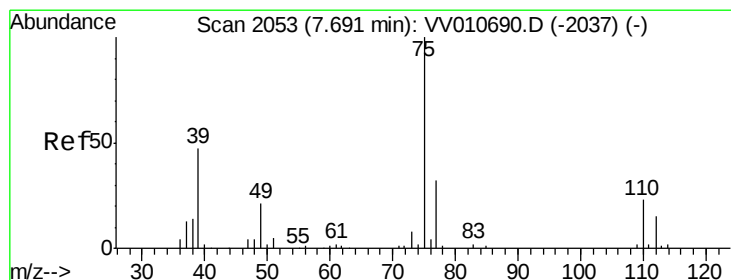
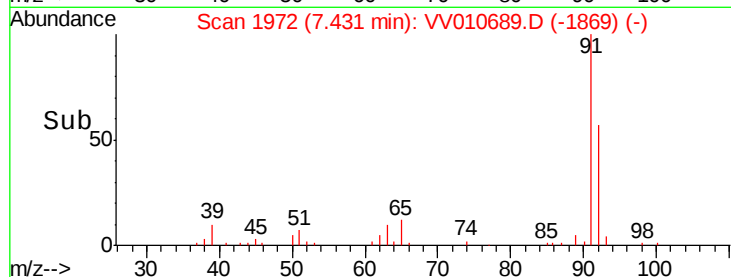
10000

5000

0

7.35 7.40 7.45 7.50

Time-->



#45

trans-1,3-Dichloropropene

Concen: 4.023 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV010689.D

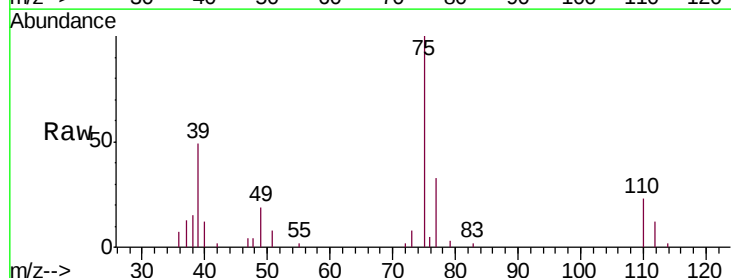
Acq: 07 May 2019 11:44

Tgt Ion: 75 Resp: 8815

Ion Ratio Lower Upper

75 100

77 33.4 22.3 41.3



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

6000

5000

4000

3000

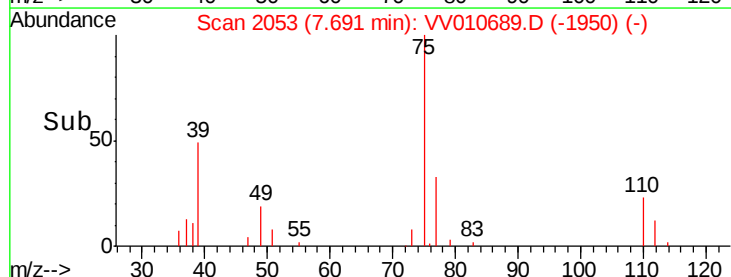
2000

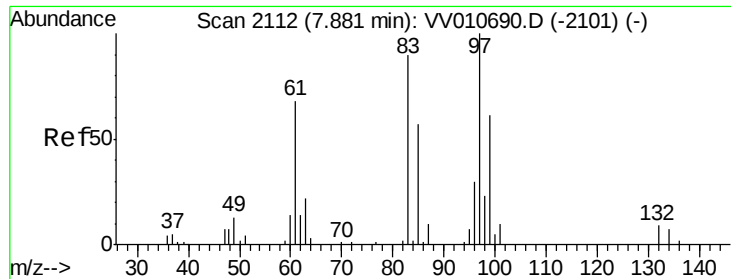
1000

0

7.65 7.70 7.75

Time-->

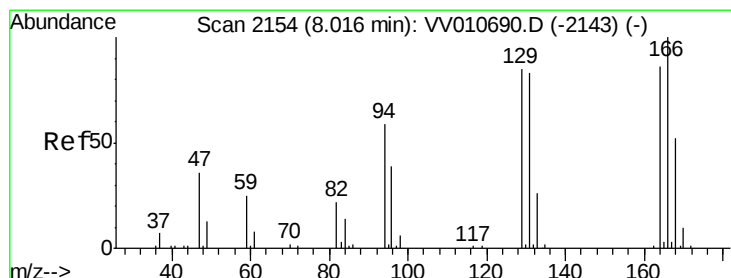
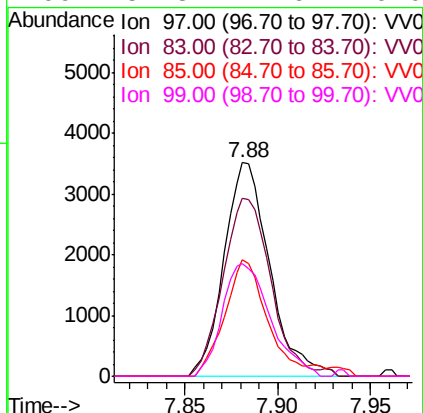
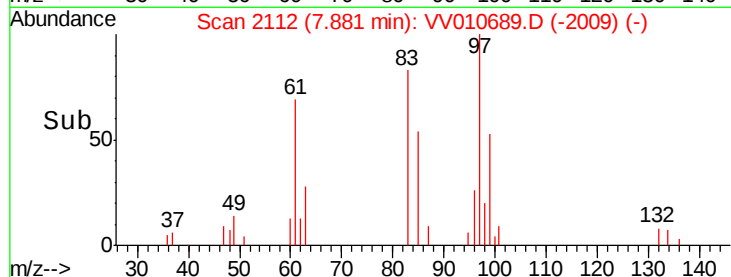
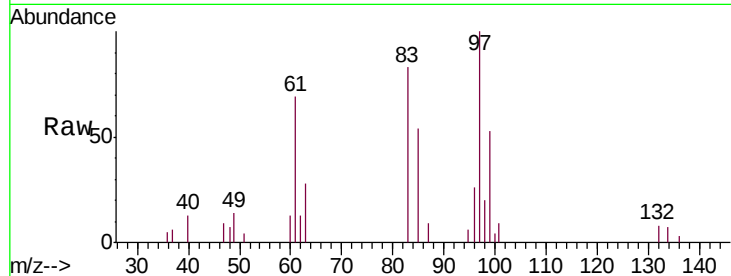




#46
 1,1,2-Trichloroethane
 Concen: 4.446 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VV010689.D
 Acq: 07 May 2019 11:44

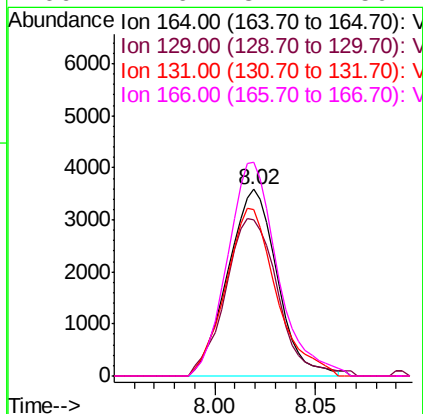
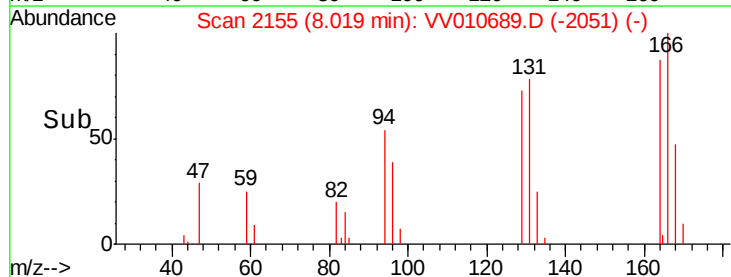
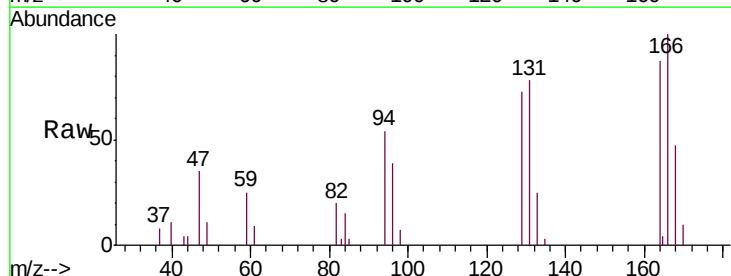
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00562

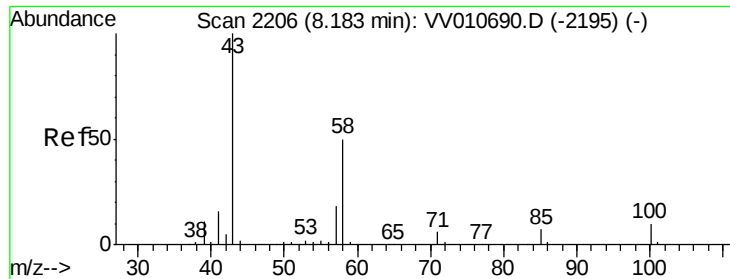
Tgt Ion:	97	Resp:	6008
Ion	Ratio	Lower	Upper
97	100		
83	83.4	62.8	116.6
85	54.4	40.2	74.6
99	52.8	42.6	79.0



#47
 Tetrachloroethene
 Concen: 4.894 ug/L
 RT: 8.02 min Scan# 2155
 Delta R.T. 0.00 min
 Lab File: VV010689.D
 Acq: 07 May 2019 11:44

Tgt Ion:	164	Resp:	6139
Ion	Ratio	Lower	Upper
164	100		
129	84.1	69.3	128.7
131	89.0	67.3	125.1
166	114.6	81.1	150.7

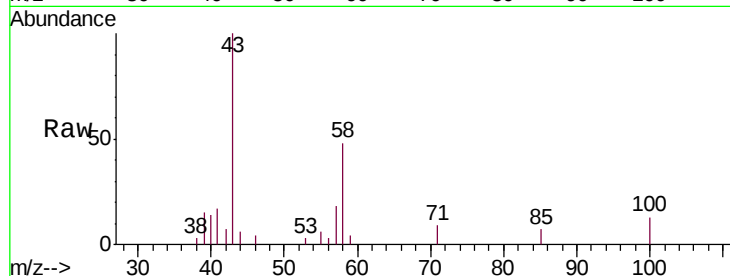




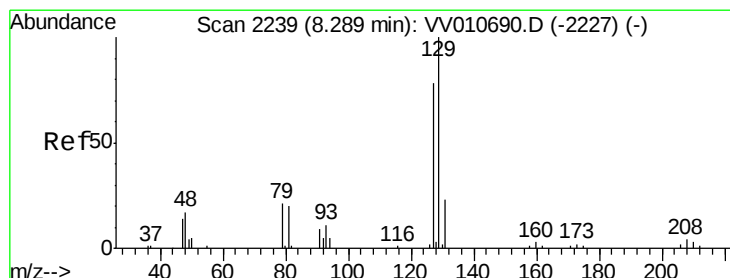
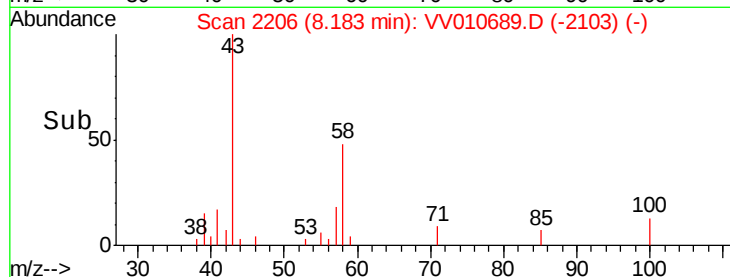
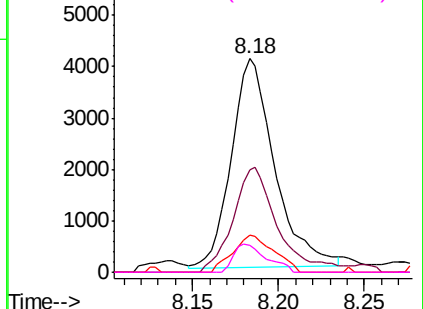
#49
2-Hexanone
Concen: 6.760 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. -0.00 min
Lab File: VV010689.D
Acq: 07 May 2019 11:44

Instrument :
MSVOA_V
ClientSampleId :
VSTD00562

Tgt Ion:	43	Resp:	7117
Ion	Ratio	Lower	Upper
43	100		
58	51.0	39.4	59.0
57	16.9	14.2	21.4
100	10.4	8.2	12.2

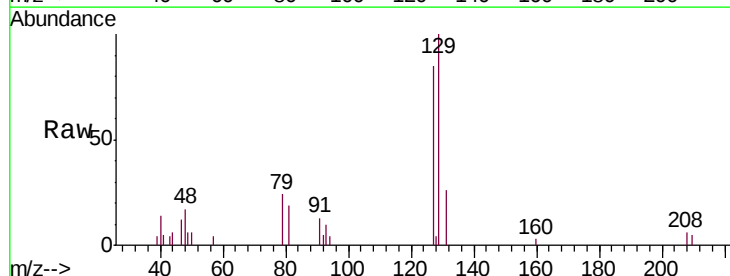


Abundance Ion 43.00 (42.70 to 43.70): VV010689.D (-2195) (-)
Ion 58.00 (57.70 to 58.70): VV010689.D (-2195) (-)
Ion 57.00 (56.70 to 57.70): VV010689.D (-2195) (-)
Ion 100.00 (99.70 to 100.70): VV010689.D (-2195) (-)

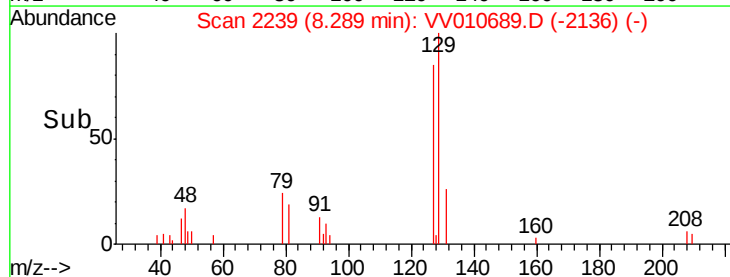
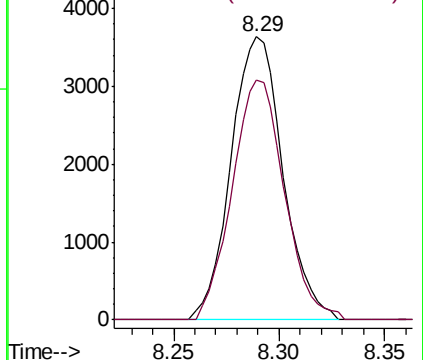


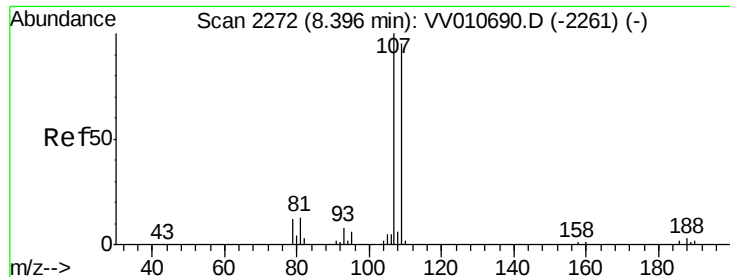
#50
Dibromochloromethane
Concen: 4.012 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV010689.D
Acq: 07 May 2019 11:44

Tgt Ion:	129	Resp:	6235
Ion	Ratio	Lower	Upper
129	100		
127	84.9	54.5	101.1



Abundance Ion 129.00 (128.70 to 129.70): VV010689.D (-2227) (-)
Ion 127.00 (126.70 to 127.70): VV010689.D (-2227) (-)





#51

1,2-Dibromoethane

Concen: 4.229 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. -0.00 min

Lab File: VV010689.D

Acq: 07 May 2019 11:44

Instrument :

MSVOA_V

ClientSampleId :

VSTD00562

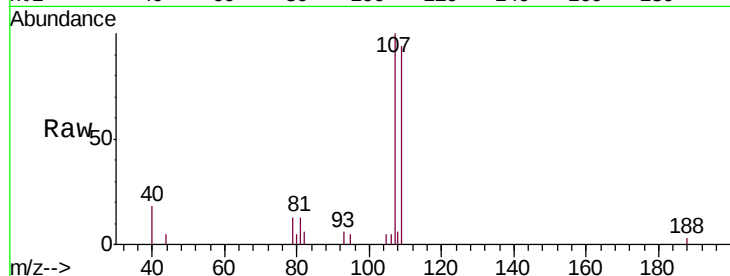
Tgt Ion:107 Resp: 5520

Ion Ratio Lower Upper

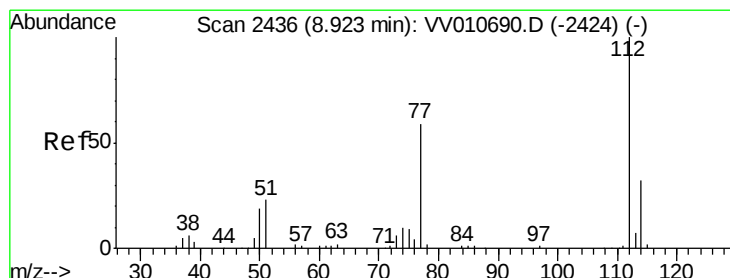
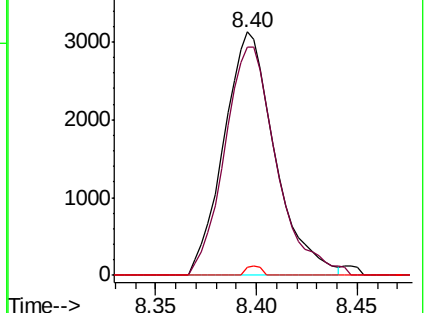
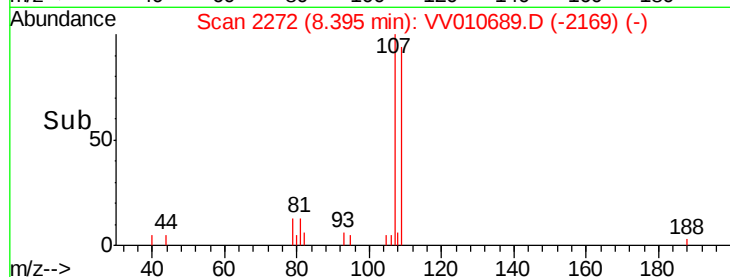
107 100

109 93.7 66.6 123.6

188 3.3 2.7 4.1



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: 4.390 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. 0.00 min

Lab File: VV010689.D

Acq: 07 May 2019 11:44

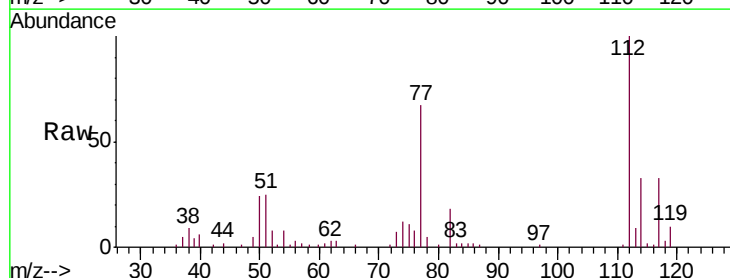
Tgt Ion:112 Resp: 20144

Ion Ratio Lower Upper

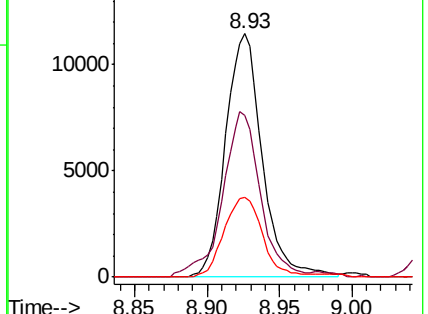
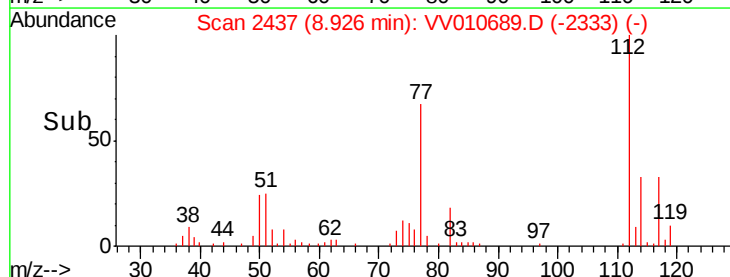
112 100

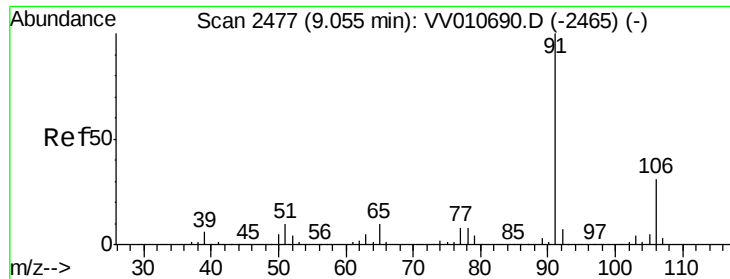
77 66.6 47.7 71.5

114 33.0 22.1 41.1



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 77.00 (76.70 to 77.70): V
Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 4.268 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV010689.D

Acq: 07 May 2019 11:44

Instrument :

MSVOA_V

ClientSampleId :

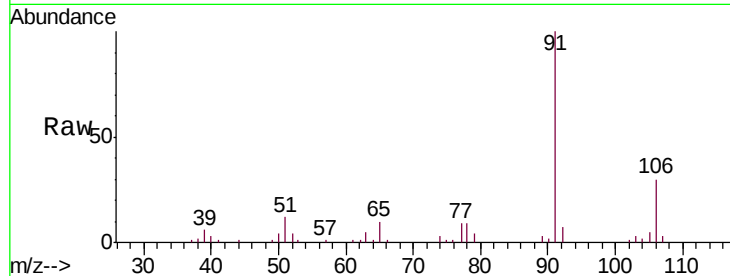
VSTD00562

Tgt Ion: 91 Resp: 34756

Ion Ratio Lower Upper

91 100

106 29.8 21.8 40.6



Abundance Ion 91.00 (90.70 to 91.70): VV010689.D (-2465) (-)

Ion 106.00 (105.70 to 106.70): VV010689.D (-2465) (-)

9.05

25000

20000

15000

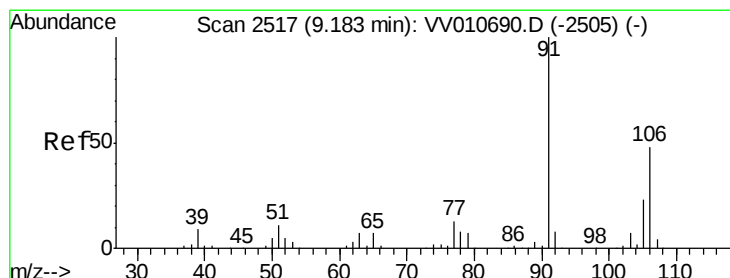
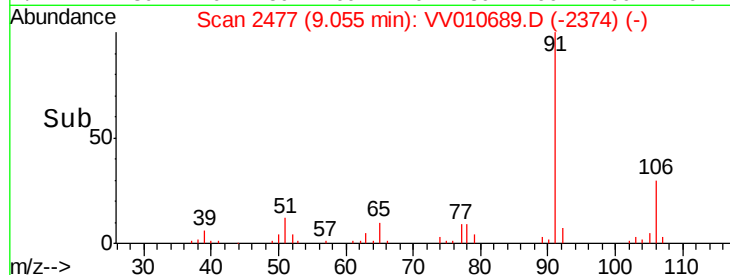
10000

5000

0

Time-->

9.00 9.05 9.10



#54

m,p-Xylene

Concen: 4.360 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. -0.00 min

Lab File: VV010689.D

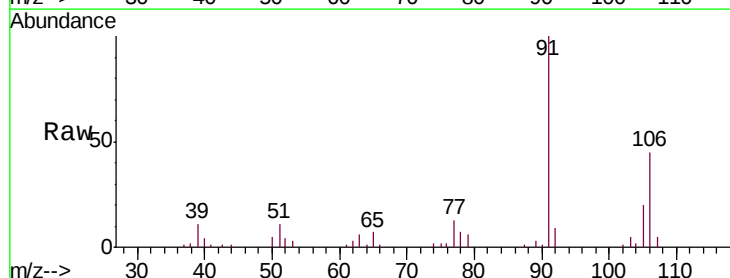
Acq: 07 May 2019 11:44

Tgt Ion: 106 Resp: 13266

Ion Ratio Lower Upper

106 100

91 221.5 145.4 270.0



Abundance Ion 106.00 (105.70 to 106.70): VV010689.D (-2505) (-)

Ion 91.00 (90.70 to 91.70): VV010689.D (-2505) (-)

9.18

15000

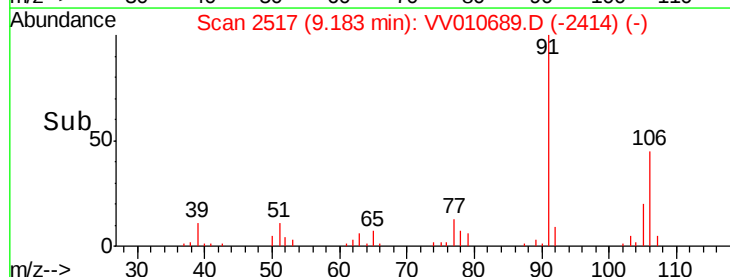
10000

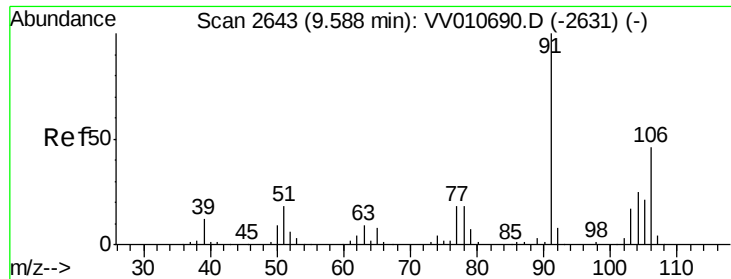
5000

0

Time-->

9.15 9.20

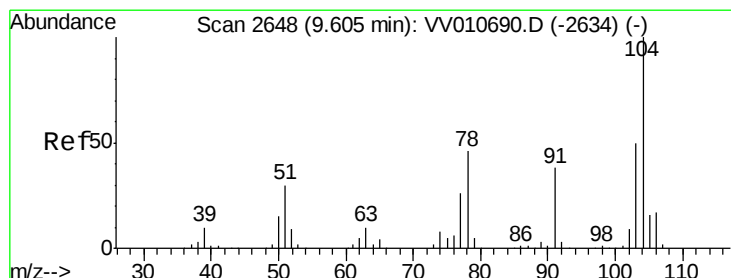
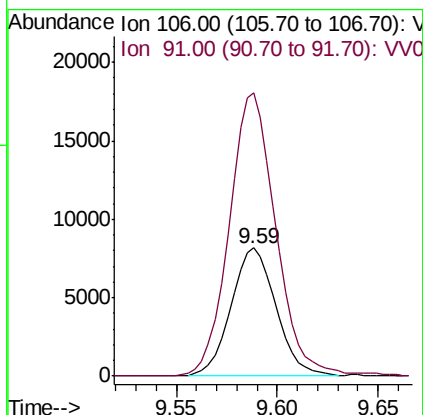
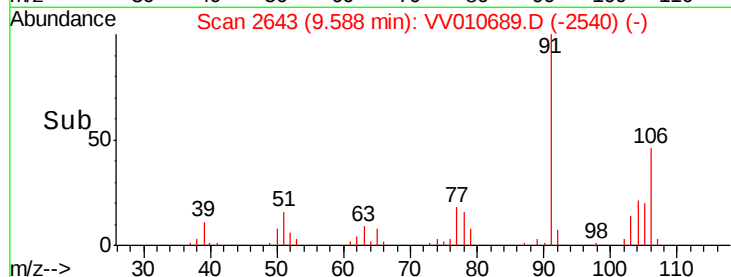
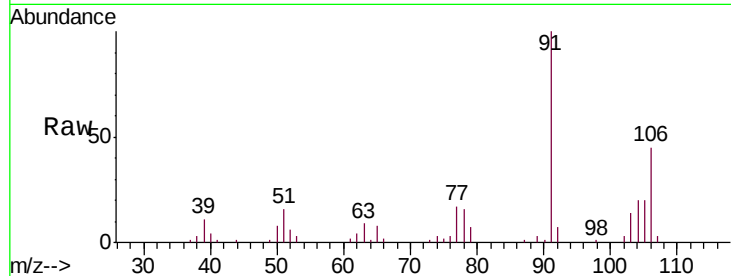




#55
o-xylene
Concen: 4.235 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. -0.00 min
Lab File: VV010689.D
Acq: 07 May 2019 11:44

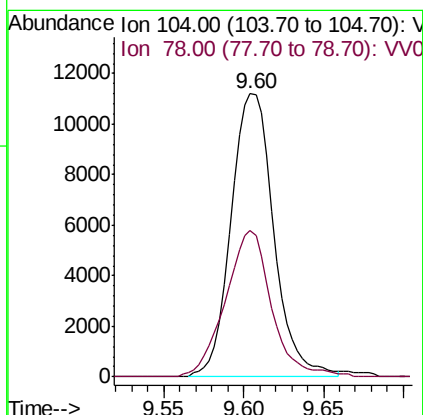
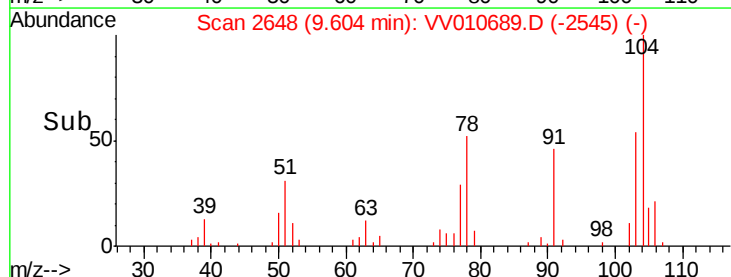
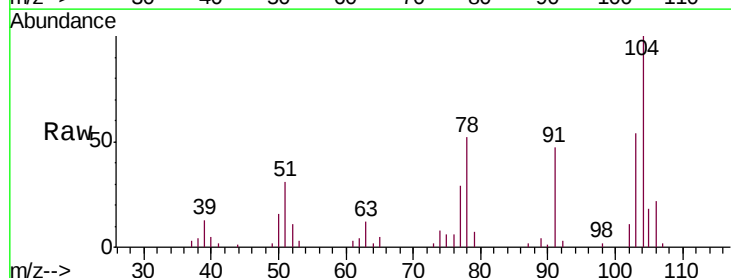
Instrument :
MSVOA_V
ClientSampleId :
VSTD00562

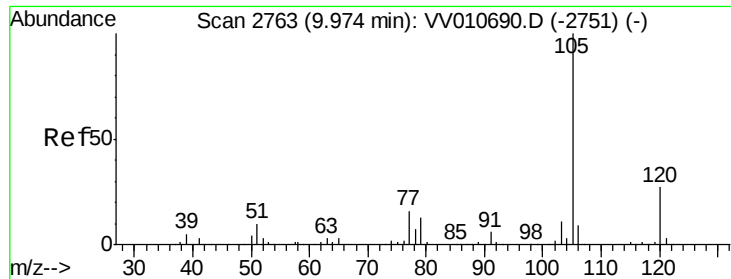
Tgt Ion:106 Resp: 12780
Ion Ratio Lower Upper
106 100
91 220.9 151.0 280.4



#56
Styrene
Concen: 4.002 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. -0.00 min
Lab File: VV010689.D
Acq: 07 May 2019 11:44

Tgt Ion:104 Resp: 20428
Ion Ratio Lower Upper
104 100
78 51.9 32.2 59.8





#57

Isopropylbenzene

Concen: 4.307 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV010689.D

Acq: 07 May 2019 11:44

Instrument :

MSVOA_V

ClientSampled :

VSTD00562

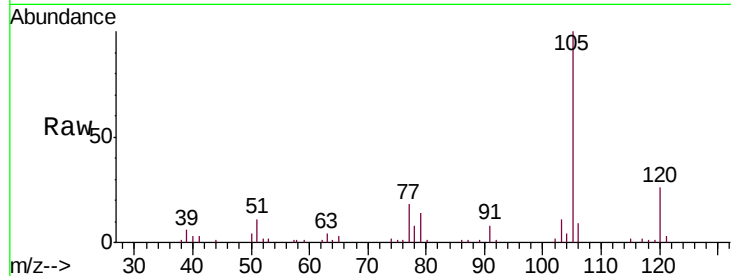
Tgt Ion: 105 Resp: 34683

Ion Ratio Lower Upper

105 100

120 25.0 20.9 31.3

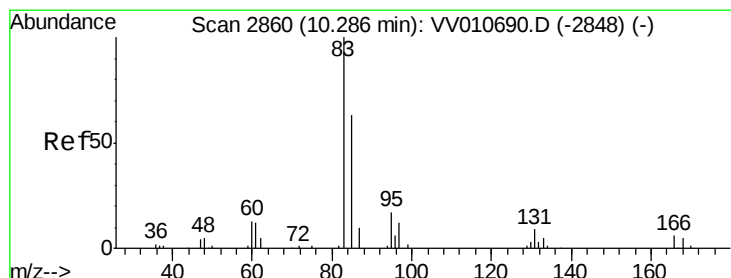
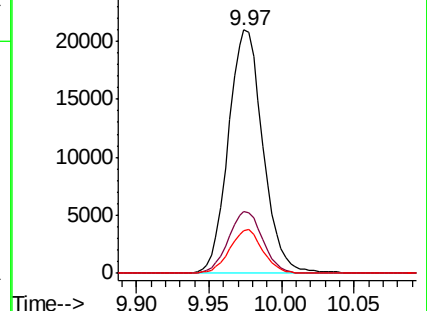
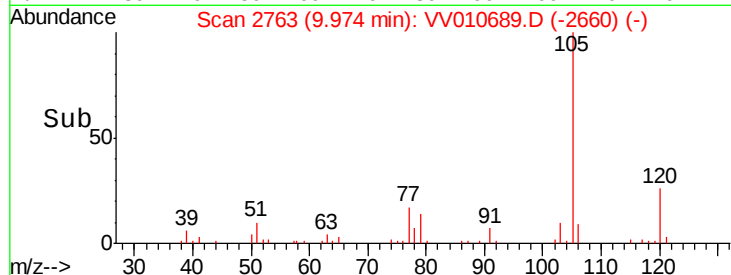
77 17.1 12.8 19.2



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: 4.075 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV010689.D

Acq: 07 May 2019 11:44

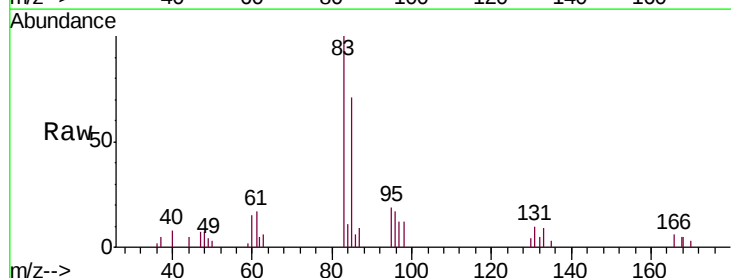
Tgt Ion: 83 Resp: 7216

Ion Ratio Lower Upper

83 100

85 70.6 44.6 82.8

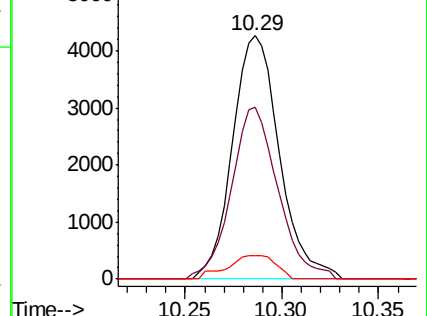
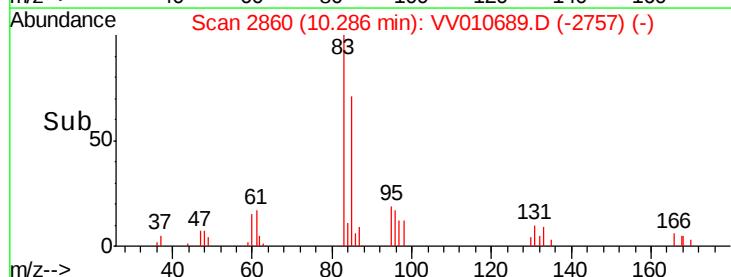
131 9.8 7.9 11.9

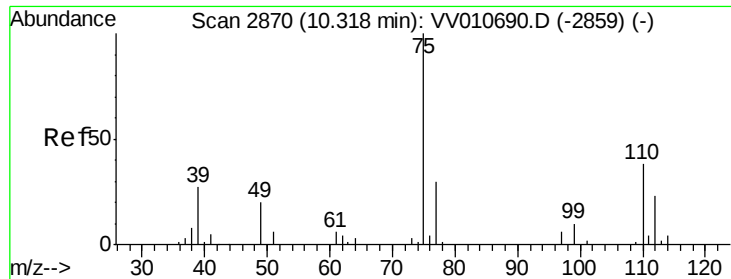


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

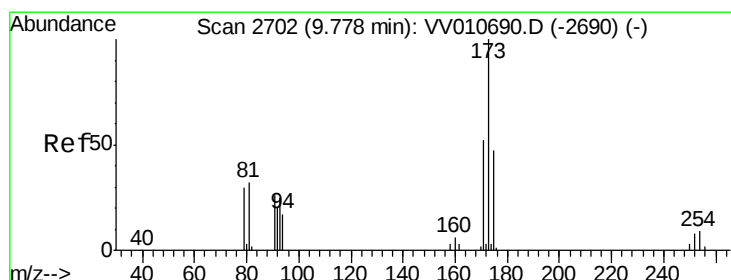
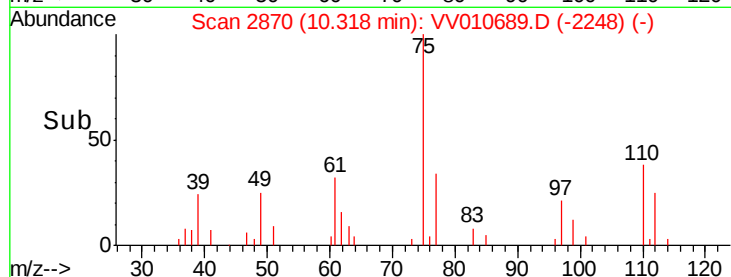
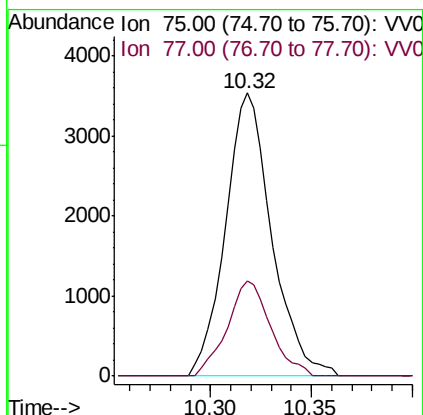
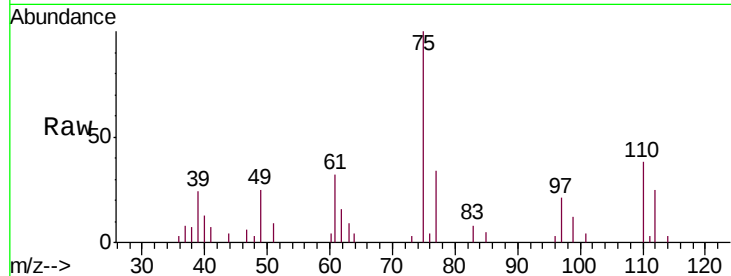




#59
 1,2,3-Trichloropropane
 Concen: 4.099 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. -0.00 min
 Lab File: VV010689.D
 Acq: 07 May 2019 11:44

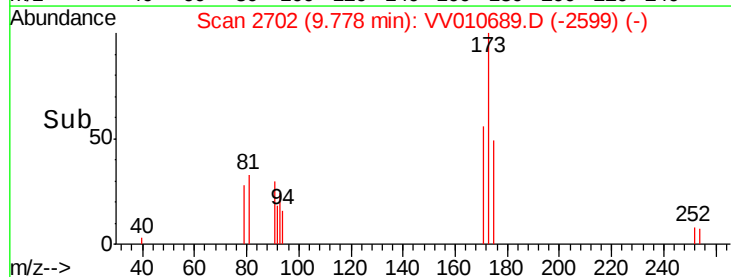
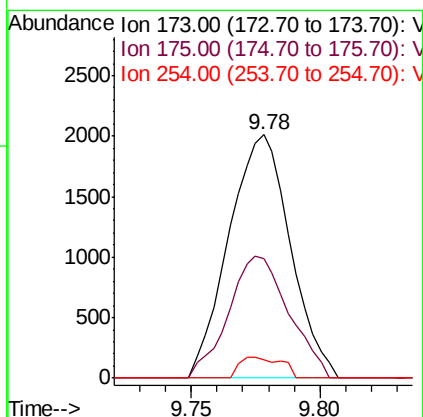
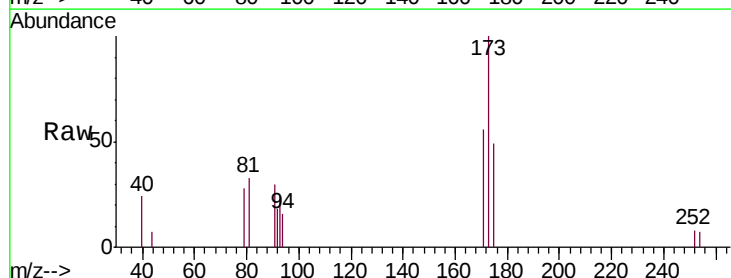
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00562

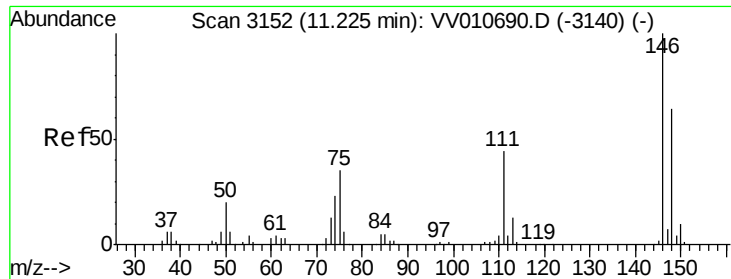
Tgt Ion: 75 Resp: 5664
 Ion Ratio Lower Upper
 75 100
 77 31.6 25.0 37.6



#62
 Bromoform
 Concen: 4.134 ug/L
 RT: 9.78 min Scan# 2702
 Delta R.T. -0.00 min
 Lab File: VV010689.D
 Acq: 07 May 2019 11:44

Tgt Ion: 173 Resp: 3335
 Ion Ratio Lower Upper
 173 100
 175 49.1 38.6 58.0
 254 4.3 6.5 9.7#

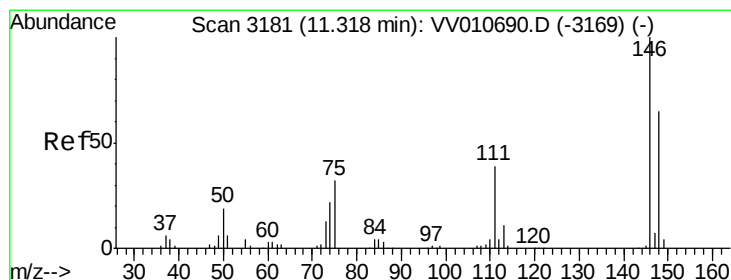
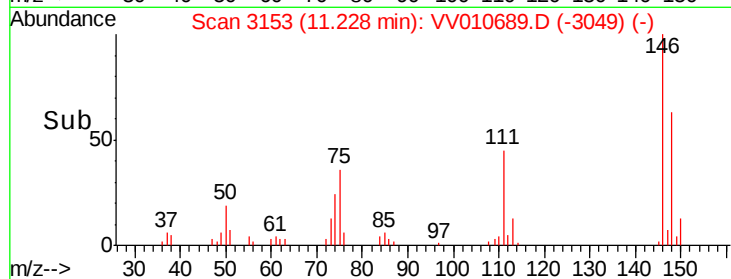
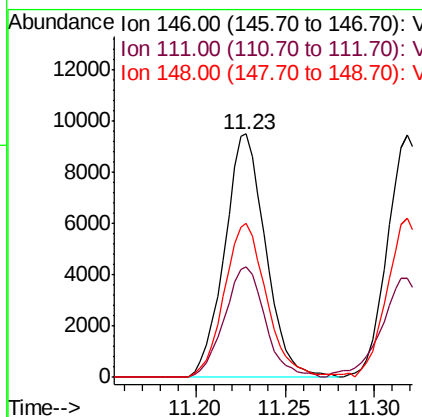
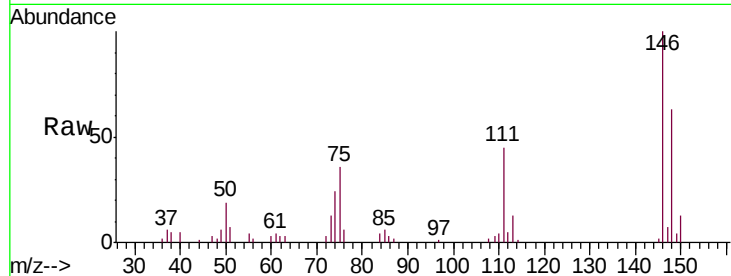




#63
 1,3-Dichlorobenzene
 Concen: 4.615 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. 0.00 min
 Lab File: VV010689.D
 Acq: 07 May 2019 11:44

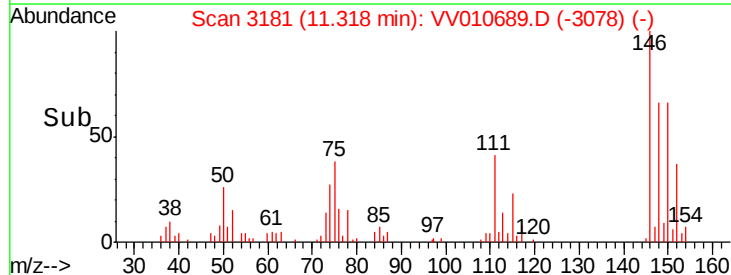
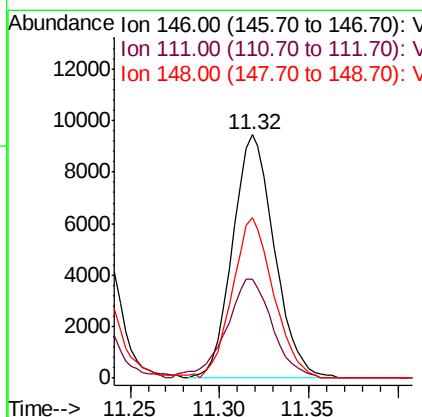
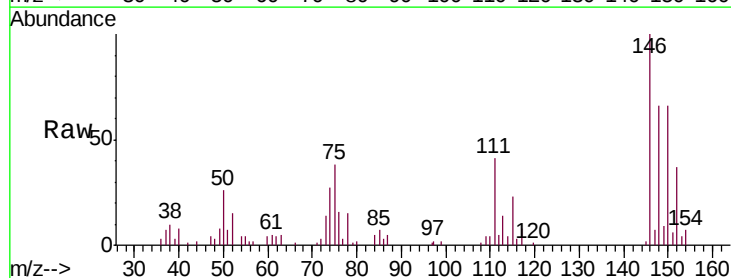
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00562

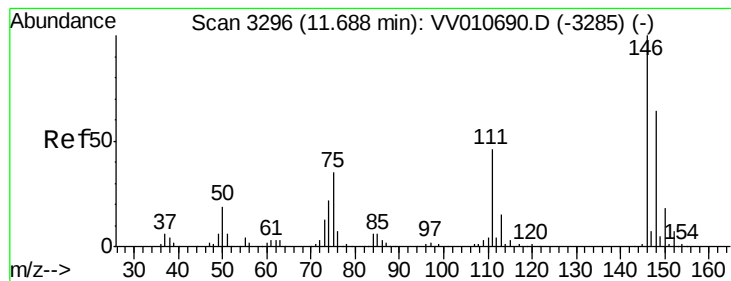
Tgt Ion:146 Resp: 15219
 Ion Ratio Lower Upper
 146 100
 111 45.3 30.6 56.8
 148 63.1 44.9 83.5



#64
 1,4-Dichlorobenzene
 Concen: 4.592 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: VV010689.D
 Acq: 07 May 2019 11:44

Tgt Ion:146 Resp: 15469
 Ion Ratio Lower Upper
 146 100
 111 40.7 27.4 50.8
 148 65.6 45.1 83.9





#65

1,2-Dichlorobenzene

Concen: 4.473 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV010689.D

Acq: 07 May 2019 11:44

Instrument :

MSVOA_V

ClientSampleId :

VSTD00562

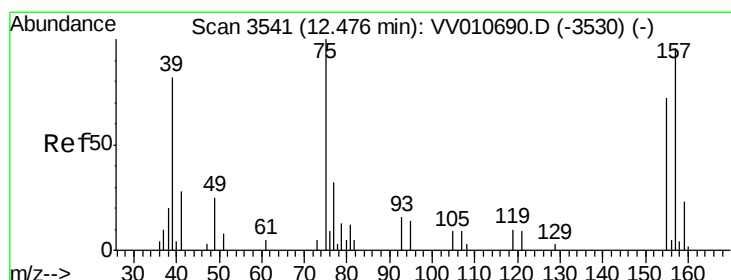
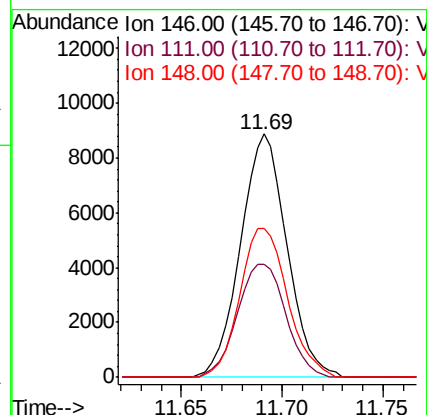
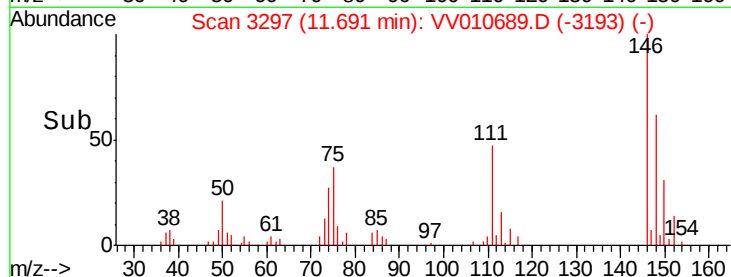
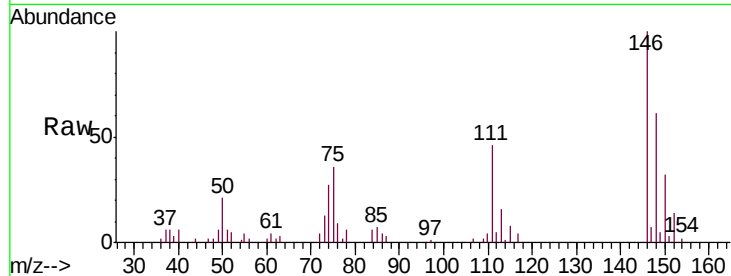
Tgt Ion: 146 Resp: 14326

Ion Ratio Lower Upper

146 100

111 46.2 37.0 55.4

148 61.2 51.3 76.9



#66

1,2-Dibromo-3-chloropropane

Concen: 4.243 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. -0.00 min

Lab File: VV010689.D

Acq: 07 May 2019 11:44

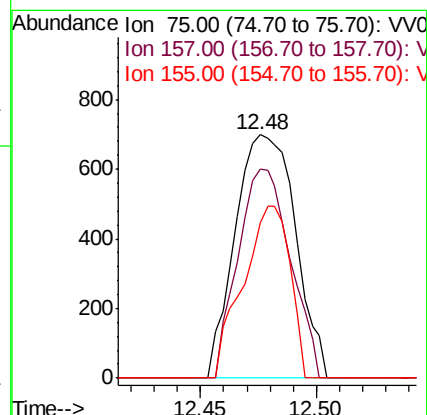
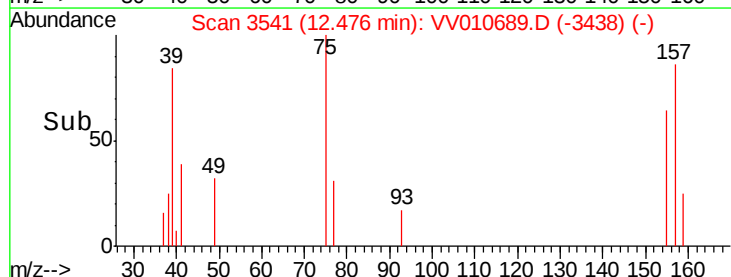
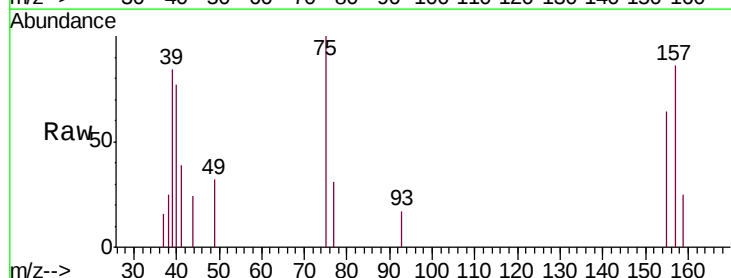
Tgt Ion: 75 Resp: 1261

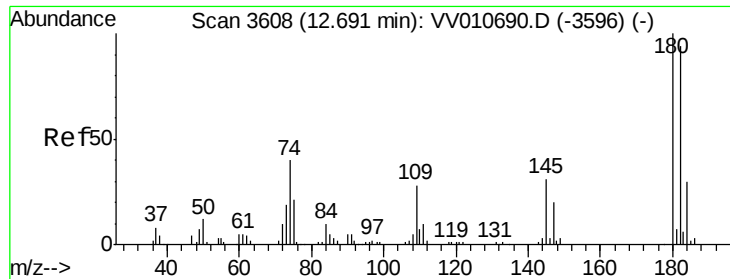
Ion Ratio Lower Upper

75 100

157 86.0 76.9 115.3

155 63.8 57.9 86.9

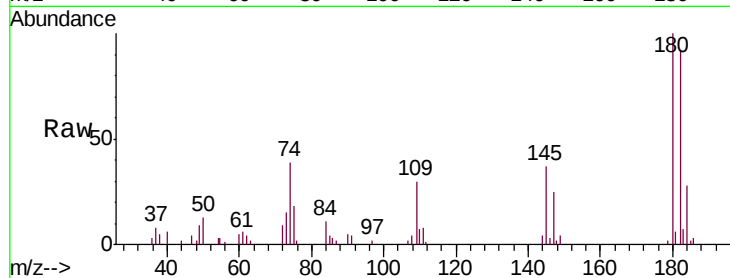




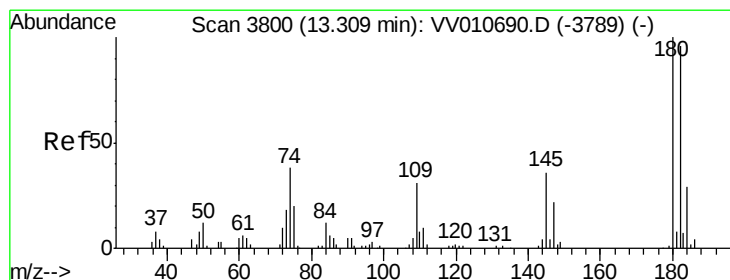
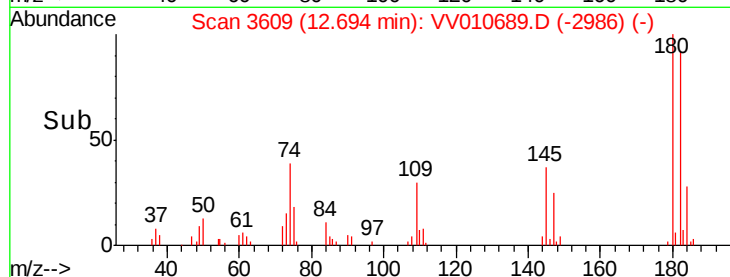
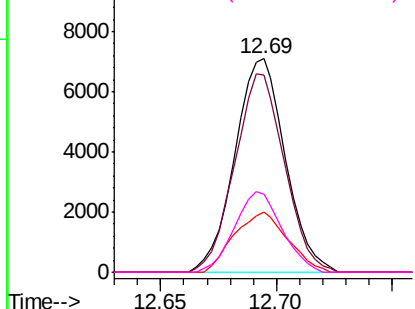
#67
 1,3,5-Trichlorobenzene
 Concen: 4.519 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV010689.D
 Acq: 07 May 2019 11:44

Instrument :
 MSVOA_V
 ClientSampled :
 VSTD00562

Tgt Ion:180 Resp: 10735
 Ion Ratio Lower Upper
 180 100
 182 91.3 74.7 112.1
 184 29.8 23.7 35.5
 145 35.6 26.0 39.0

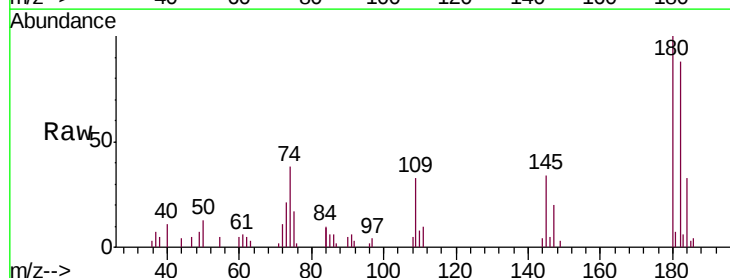


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

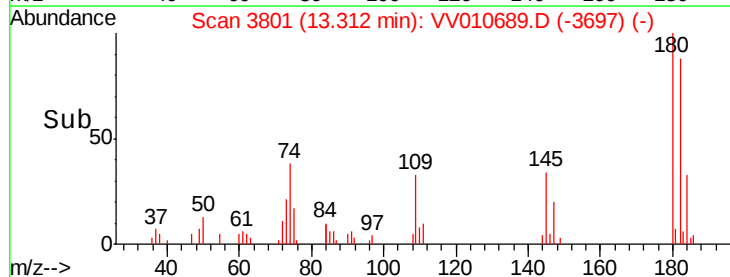
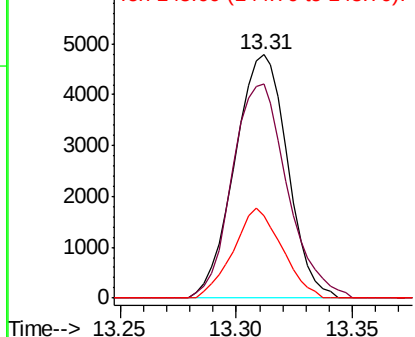


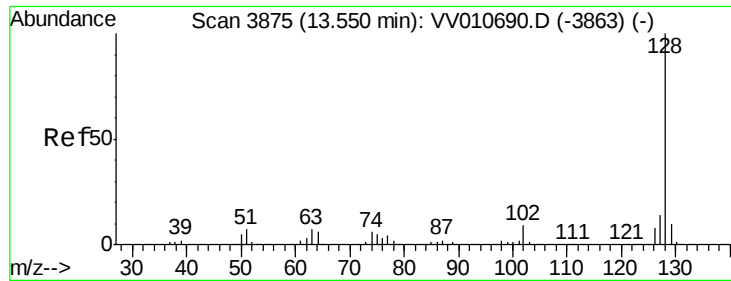
#68
 1,2,4-trichlorobenzene
 Concen: 4.114 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV010689.D
 Acq: 07 May 2019 11:44

Tgt Ion:180 Resp: 7561
 Ion Ratio Lower Upper
 180 100
 182 91.9 77.1 115.7
 145 34.1 28.3 42.5



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: 3.246 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. -0.00 min

Lab File: VV010689.D

Acq: 07 May 2019 11:44

Instrument :

MSVOA_V

ClientSampleId :

VSTD00562

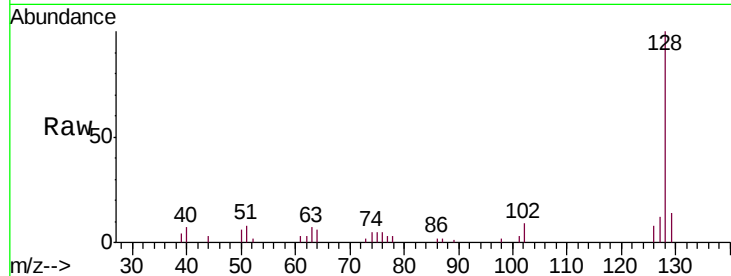
Tgt Ion:128 Resp: 12771

Ion Ratio Lower Upper

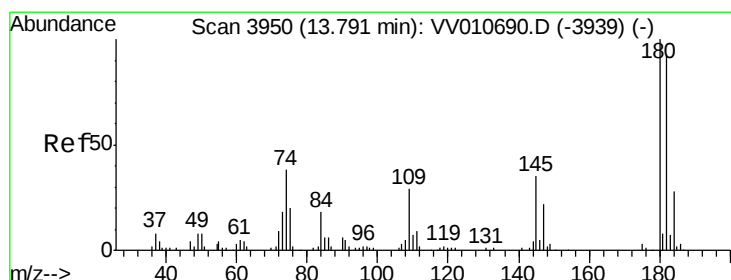
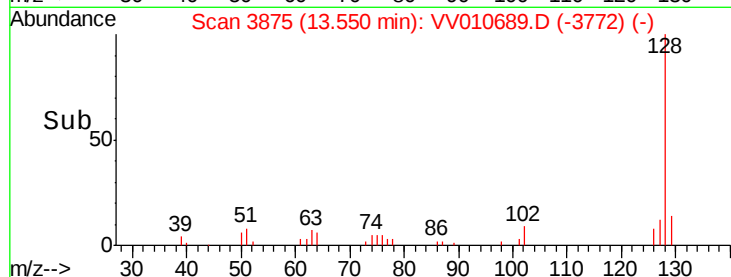
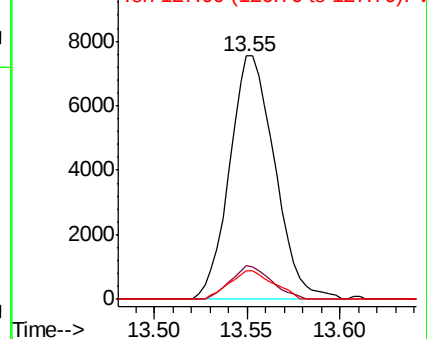
128 100

129 12.5 8.3 12.5#

127 11.4 10.8 16.2



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: 3.911 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV010689.D

Acq: 07 May 2019 11:44

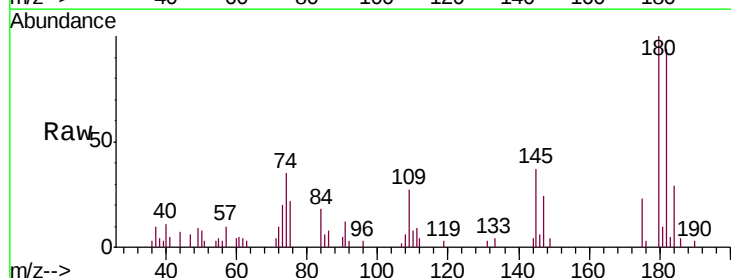
Tgt Ion:180 Resp: 6743

Ion Ratio Lower Upper

180 100

182 96.0 74.3 111.5

145 37.3 28.5 42.7



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

