

Data File : VV012316.D
Acq On : 21 Aug 2019 16:16
Operator : SY/MD
Sample : VSTD01061
Misc : 5mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD01061

Quant Time: Aug 22 02:24:05 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM082119WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Aug 22 02:21:08 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	237888	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	218902	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	111121	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	10593	7.10	ug/L	0.00
7) Chloroethane-d5	1.58	69	7975	6.27	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.13	63	20586	7.35	ug/L	0.00
21) 2-Butanone-d5	3.93	46	12771	9.85	ug/L	0.00
24) Chloroform-d	4.40	84	28503	8.12	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	20755	9.12	ug/L	0.00
32) Benzene-d6	5.10	84	55632	8.25	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.12	67	15427	7.57	ug/L	0.00
41) Toluene-d8	7.36	98	53591	8.66	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.66	79	8451	7.88	ug/L	0.00
47) 2-Hexanone-d5	8.13	63	9284	10.43	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.26	84	20652	6.92	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.67	152	23106	8.73	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	18571	9.109	ug/L	98
3) Chloromethane	1.25	50	10398	5.912	ug/L	94
5) Vinyl chloride	1.33	62	10132	5.679	ug/L	96
6) Bromomethane	1.53	94	5406	5.622	ug/L	80
8) Chloroethane	1.60	64	5837	5.853	ug/L	99
9) Trichlorofluoromethane	1.77	101	20874	8.371	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	9635	7.103	ug/L	99
12) 1,1-Dichloroethene	2.14	96	8525	6.642	ug/L	92
13) Acetone	2.18	43	12572	12.458	ug/L	94
14) Carbon disulfide	2.32	76	32557	7.647	ug/L	99
15) Methyl Acetate	2.46	43	10876	6.502	ug/L	99
16) Methylene chloride	2.53	84	13322	8.136	ug/L	99
17) trans-1,2-Dichloroethene	2.79	96	13551	8.612	ug/L	96
18) Methyl tert-butyl Ether	2.80	73	41621	8.652	ug/L	99
19) 1,1-Dichloroethane	3.23	63	22078	7.880	ug/L	98
20) cis-1,2-Dichloroethene	3.96	96	14423	8.272	ug/L	94
22) 2-Butanone	4.02	43	15779	12.271	ug/L	98
23) Bromochloromethane	4.30	128	8256	8.964	ug/L	87
25) Chloroform	4.42	83	28359	9.353	ug/L	97
27) 1,2-Dichloroethane	5.18	62	21660	9.405	ug/L #	95
29) Cyclohexane	4.72	56	17724	7.430	ug/L	96
30) 1,1,1-Trichloroethane	4.66	97	25566	9.999	ug/L	99
31) Carbon tetrachloride	4.87	117	24111	10.463	ug/L	96
33) Benzene	5.15	78	50943	8.379	ug/L	100
34) Trichloroethene	5.96	95	14632	8.910	ug/L	96
35) Methylcyclohexane	6.18	83	22513	8.708	ug/L	98
37) 1,2-Dichloropropane	6.22	63	10708	7.032	ug/L #	94
38) Bromodichloromethane	6.55	83	18908	8.871	ug/L #	98
39) cis-1,3-Dichloropropene	7.07	75	20115	8.169	ug/L	98
40) 4-Methyl-2-pentanone	7.27	43	28297	13.472	ug/L	99

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Quant Title : VOC Analysis
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.43	91	56245	8.609	ug/L	100
44) trans-1,3-Dichloropropene	7.69	75	18439	8.138	ug/L	95
45) 1,1,2-Trichloroethane	7.88	97	12874	8.397	ug/L	99
46) Tetrachloroethene	8.02	164	13995	9.809	ug/L	94
48) 2-Hexanone	8.18	43	20487	11.989	ug/L	97
49) Dibromochloromethane	8.29	129	16951	9.473	ug/L	97
50) 1,2-Dibromoethane	8.40	107	14053	8.480	ug/L	99
51) Chlorobenzene	8.92	112	39303	8.960	ug/L	97
52) Ethylbenzene	9.05	91	64519	8.895	ug/L	98
53) m,p-Xylene	9.18	106	25001	8.973	ug/L	100
54) o-xylene	9.59	106	24516	9.053	ug/L	99
55) Styrene	9.60	104	39953	8.629	ug/L	99
56) Isopropylbenzene	9.97	105	65866	9.173	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.28	83	17662	7.121	ug/L	98
59) 1,2,3-Trichloropropane	10.32	75	15772	8.058	ug/L	99
61) Bromoform	9.78	173	13307	10.084	ug/L	99
62) 1,3-Dichlorobenzene	11.23	146	31342	8.846	ug/L	98
63) 1,4-Dichlorobenzene	11.32	146	31474	8.708	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	32207	9.032	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.48	75	3933	7.195	ug/L	90
67) 1,3,5-Trichlorobenzene	12.69	180	23116	8.524	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	15502	6.938	ug/L	99
69) Naphthalene	13.55	128	38432	6.088	ug/L	98
70) 1,2,3-Trichlorobenzene	13.79	180	16586	7.073	ug/L	97

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

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Instrument :
MSVOA_V
ClientSampleId :
VSTD01061

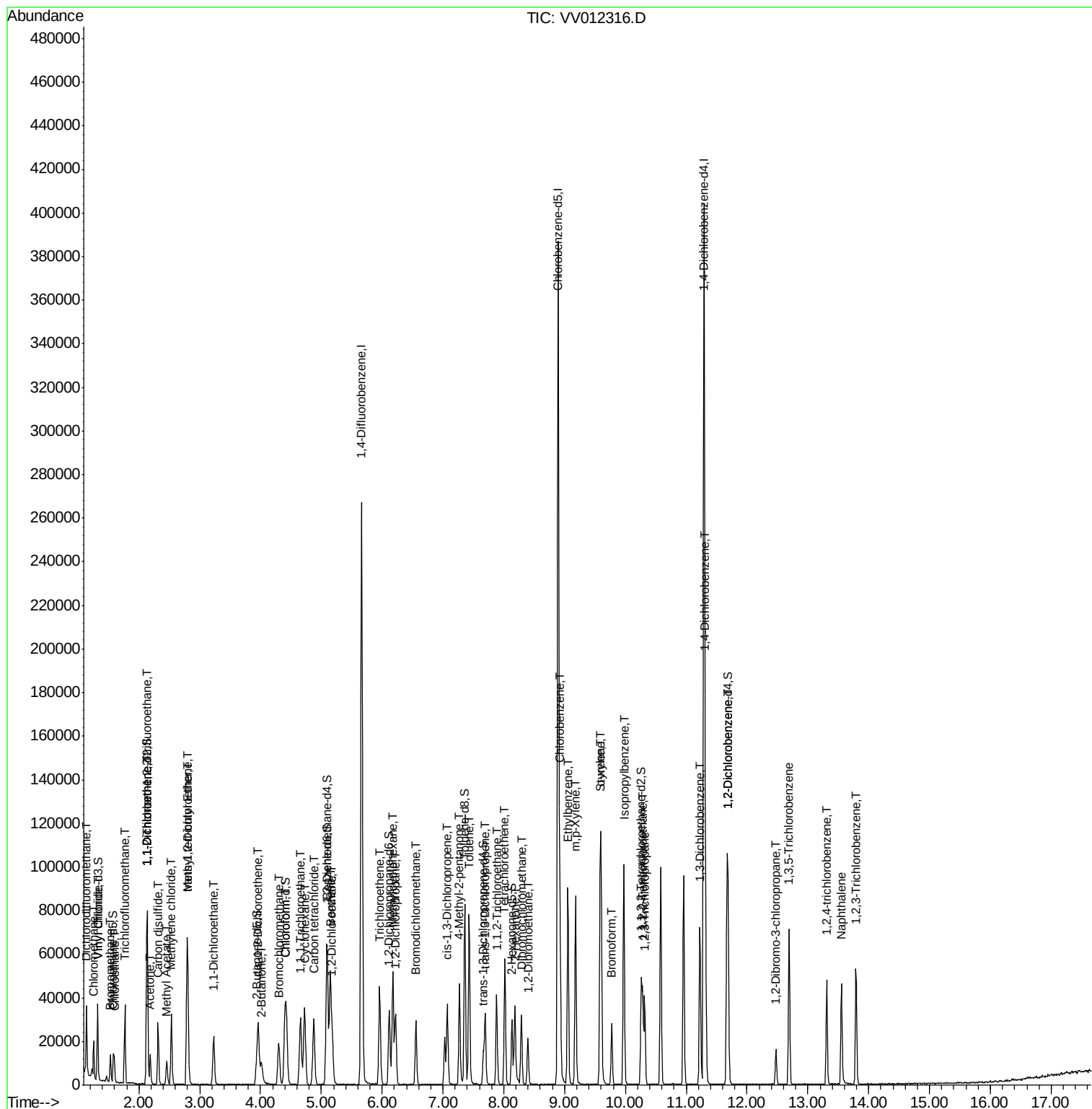
Quant Time: Aug 22 02:24:05 2019

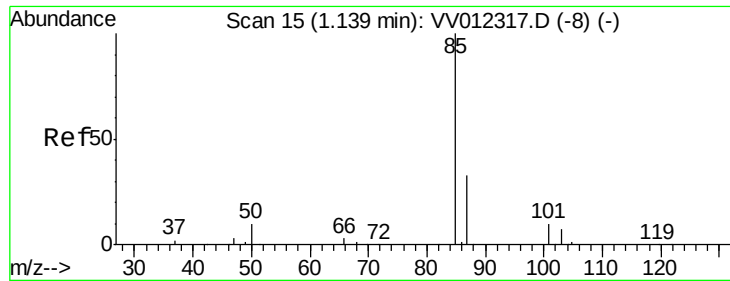
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\SOMVLM082119WMA.M

Quant Title : VOC Analysis

QLast Update : Thu Aug 22 02:21:08 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 9.109 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

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Instrument :

MSVOA_V

ClientSampleId :

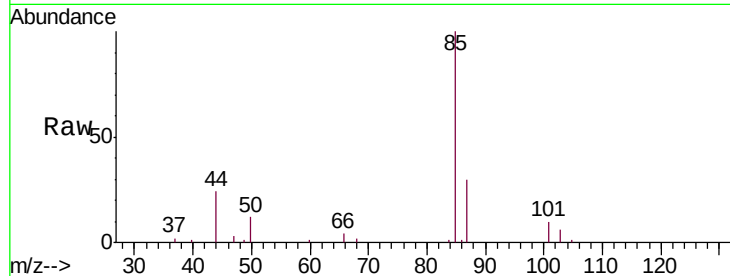
VSTD01061

Tgt Ion: 85 Resp: 18571

Ion Ratio Lower Upper

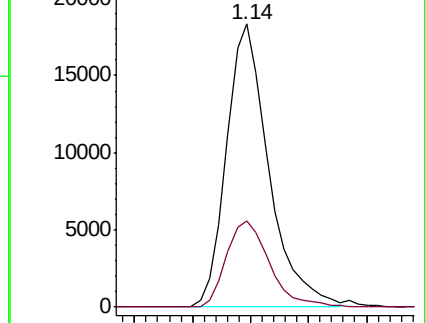
85 100

87 31.1 25.9 38.9

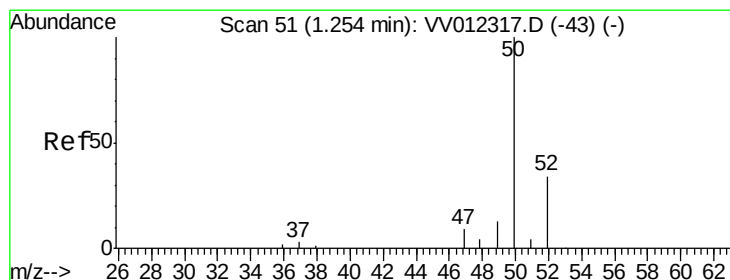
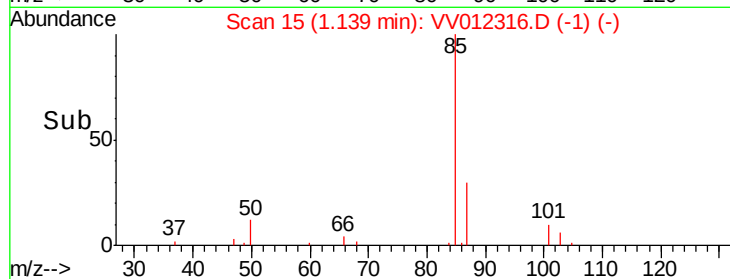


Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



Time--> 1.10 1.12 1.14 1.16 1.18



#3

Chloromethane

Concen: 5.912 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV012316.D

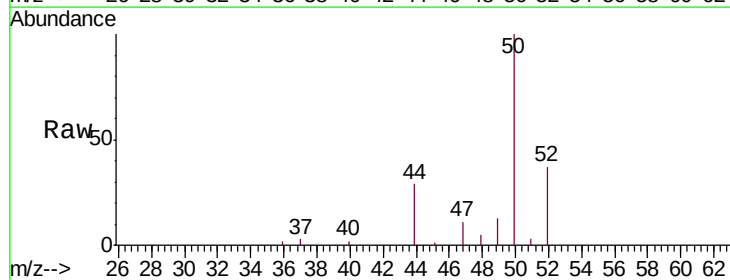
Acq: 21 Aug 2019 16:16

Tgt Ion: 50 Resp: 10398

Ion Ratio Lower Upper

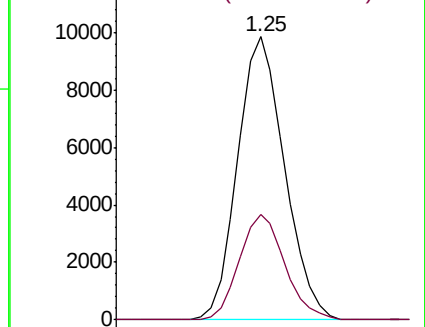
50 100

52 37.3 23.8 44.2

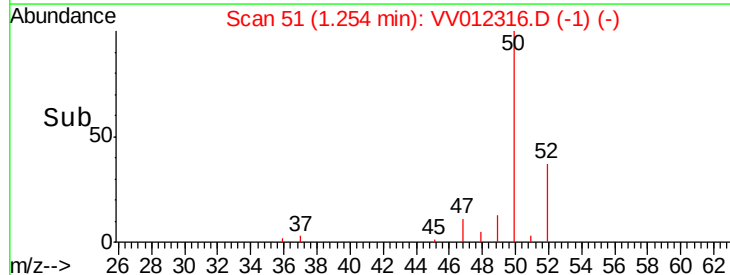


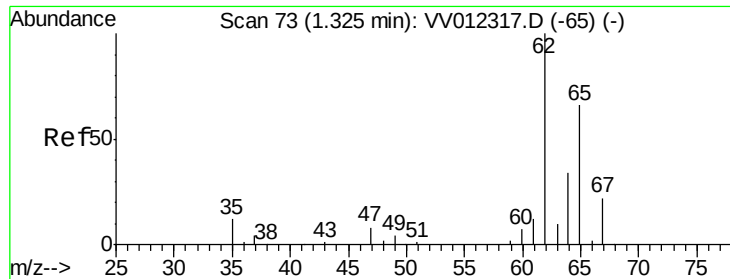
Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0



Time--> 1.22 1.24 1.26 1.28





#5

Vinyl chloride

Concen: 5.679 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV012316.D

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Instrument :

MSVOA_V

ClientSampleId :

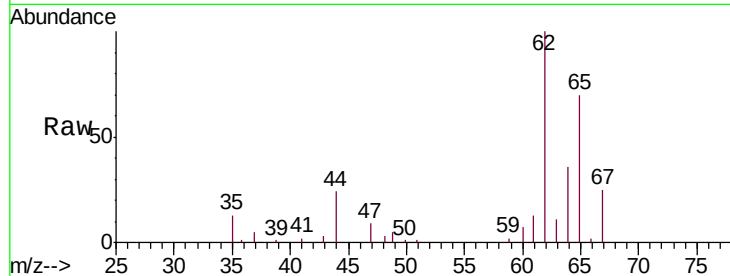
VSTD01061

Tgt Ion: 62 Resp: 10132

Ion Ratio Lower Upper

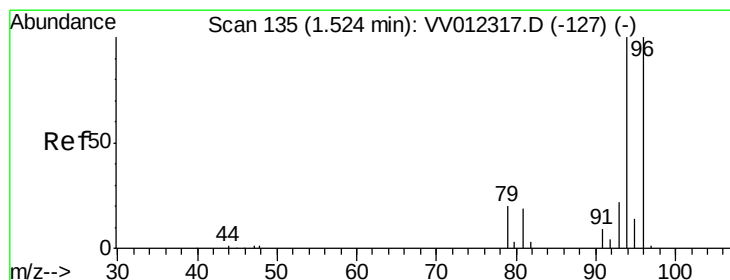
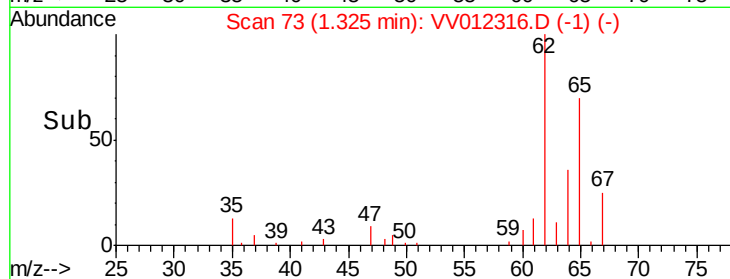
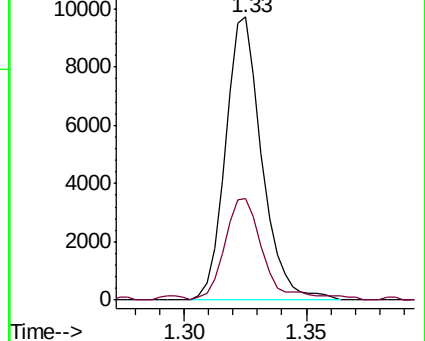
62 100

64 36.1 23.5 43.7



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 5.622 ug/L

RT: 1.53 min Scan# 137

Delta R.T. 0.01 min

Lab File: VV012316.D

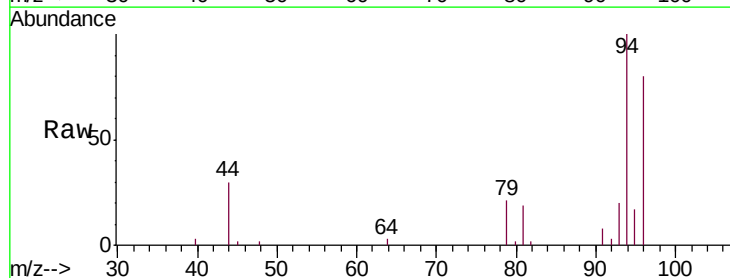
Acq: 21 Aug 2019 16:16

Tgt Ion: 94 Resp: 5406

Ion Ratio Lower Upper

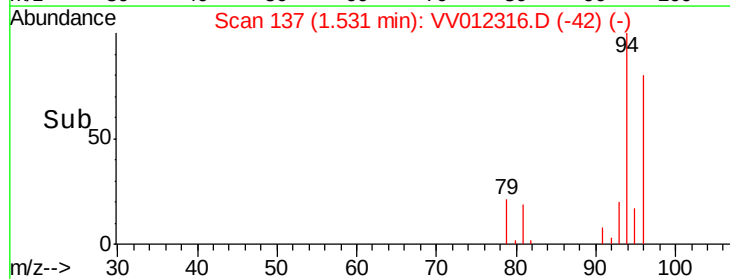
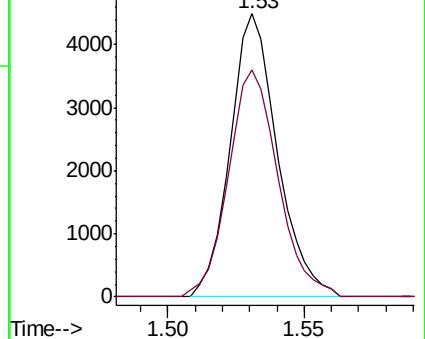
94 100

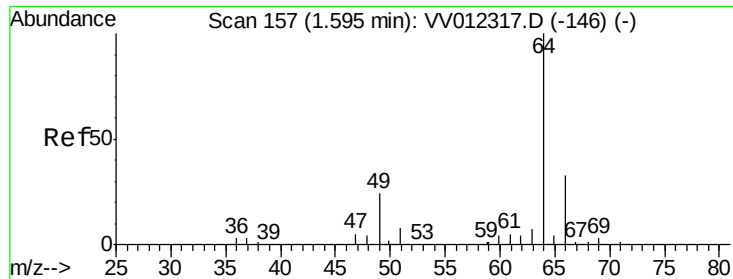
96 80.1 70.1 130.3



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 5.853 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV012316.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA_V

ClientSampleId :

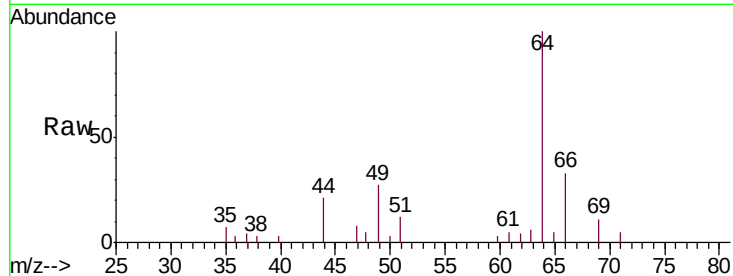
VSTD01061

Tgt Ion: 64 Resp: 5837

Ion Ratio Lower Upper

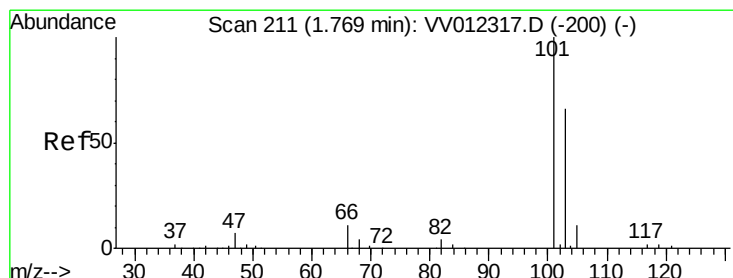
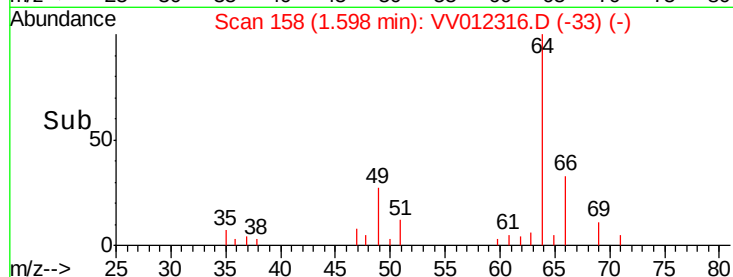
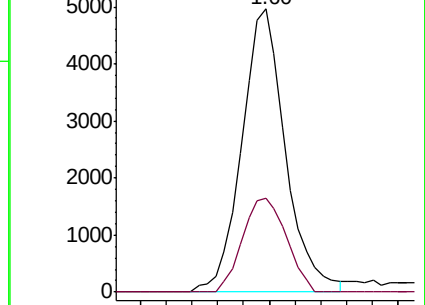
64 100

66 33.3 22.8 42.4



Abundance Ion 64.00 (63.70 to 64.70): VV0

Ion 66.00 (65.70 to 66.70): VV0



#9

Trichlorofluoromethane

Concen: 8.371 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.00 min

Lab File: VV012316.D

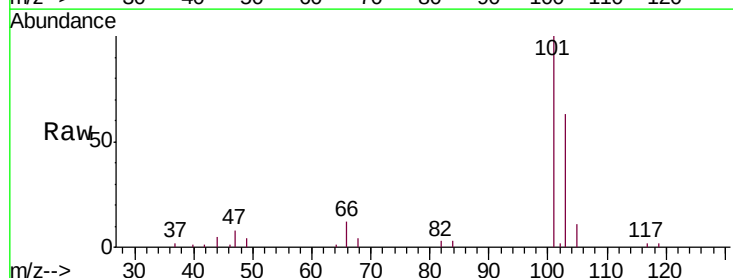
Acq: 21 Aug 2019 16:16

Tgt Ion: 101 Resp: 20874

Ion Ratio Lower Upper

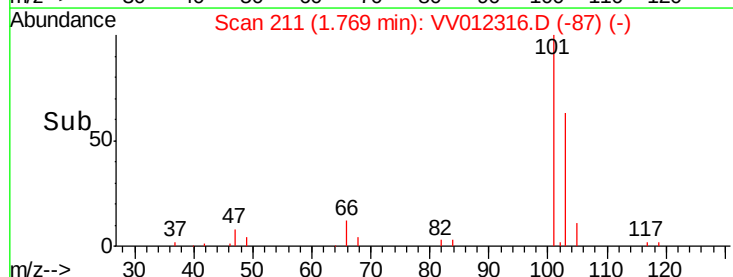
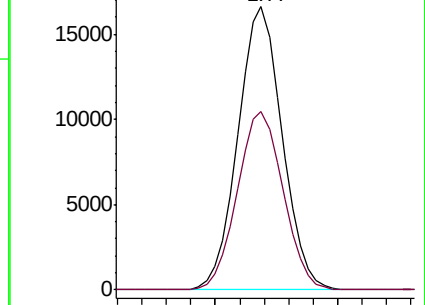
101 100

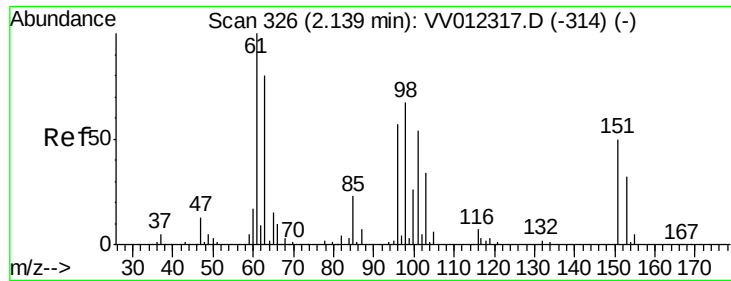
103 65.2 53.2 79.8



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: 7.103 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012316.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD01061

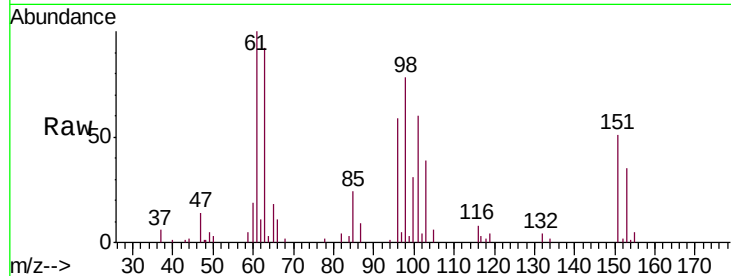
Tgt Ion:101 Resp: 9635

Ion Ratio Lower Upper

101 100

85 41.2 33.7 50.5

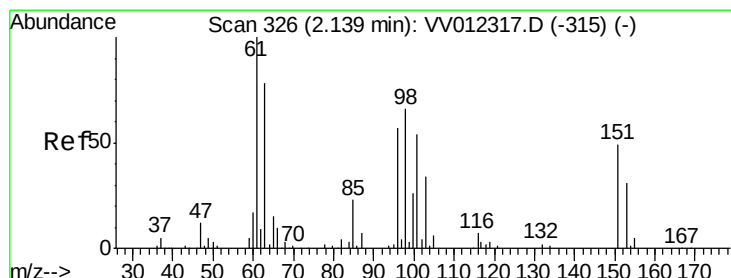
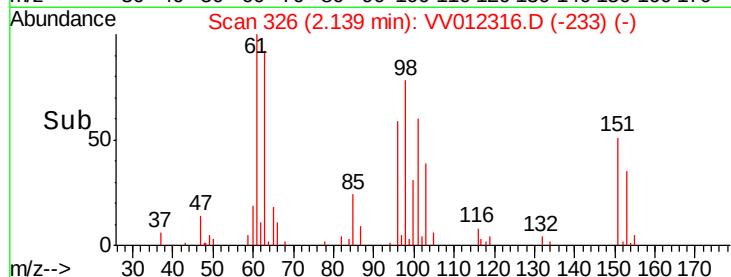
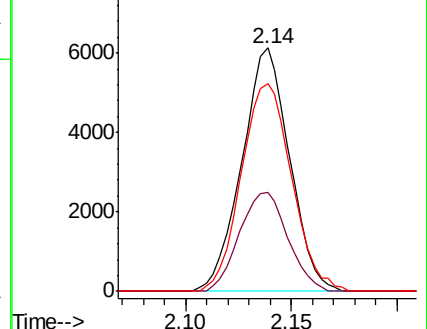
151 89.9 73.0 109.6



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: 6.642 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012316.D

Acq: 21 Aug 2019 16:16

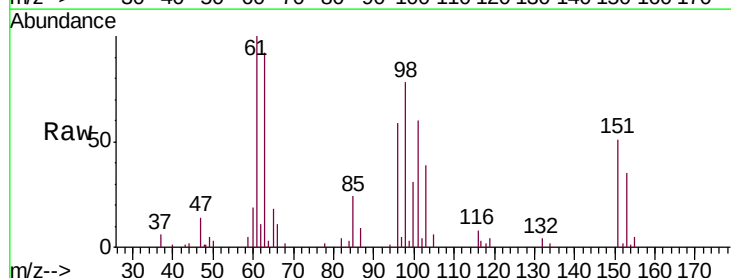
Tgt Ion: 96 Resp: 8525

Ion Ratio Lower Upper

96 100

61 170.8 122.6 227.8

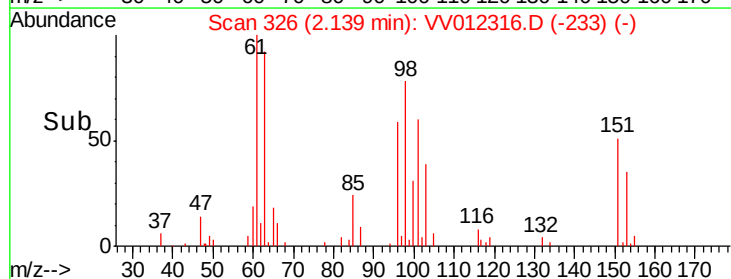
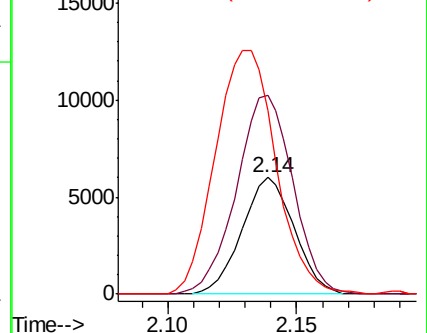
63 157.6 98.6 183.2

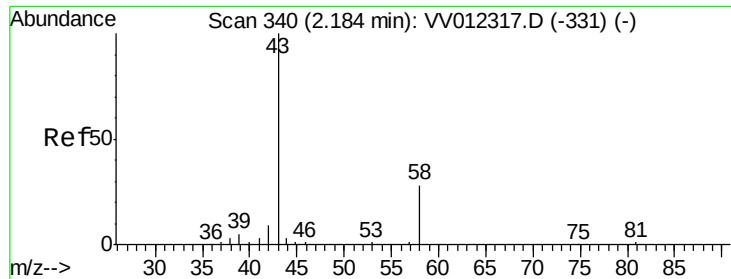


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 12.458 ug/L

RT: 2.18 min Scan# 340

Delta R.T. 0.00 min

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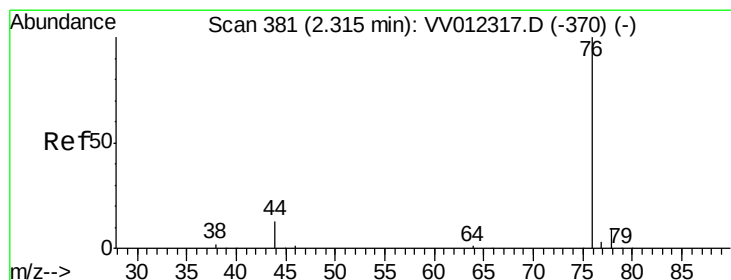
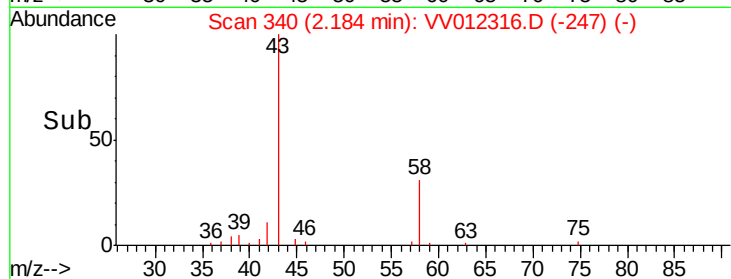
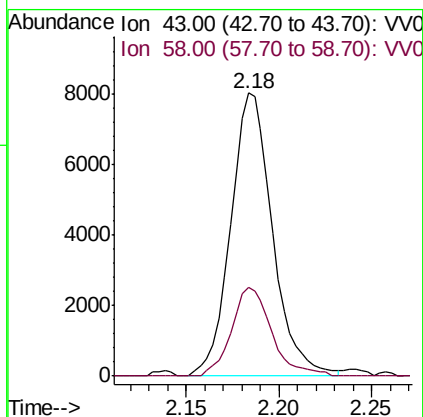
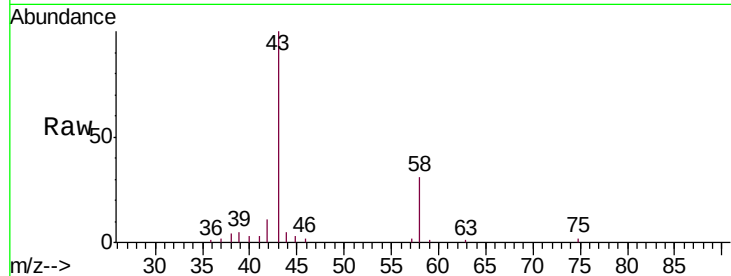
VSTD01061

Tgt Ion: 43 Resp: 12572

Ion Ratio Lower Upper

43 100

58 30.2 0.0 54.2



#14

Carbon disulfide

Concen: 7.647 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV012316.D

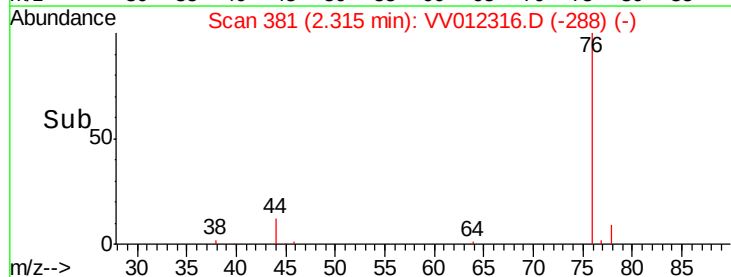
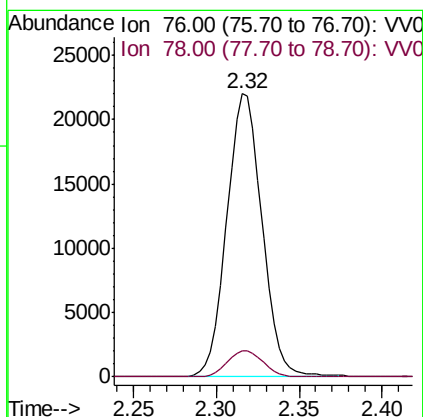
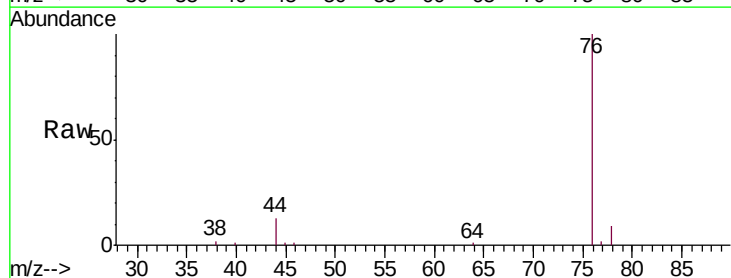
Acq: 21 Aug 2019 16:16

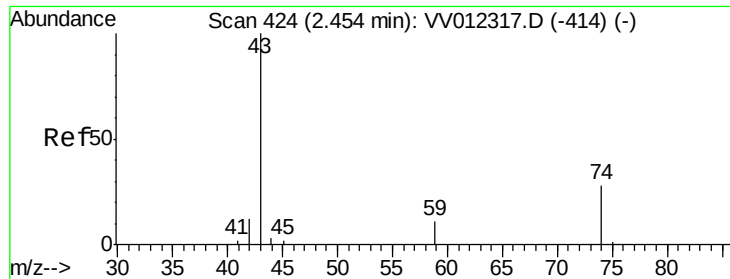
Tgt Ion: 76 Resp: 32557

Ion Ratio Lower Upper

76 100

78 9.0 7.6 11.4

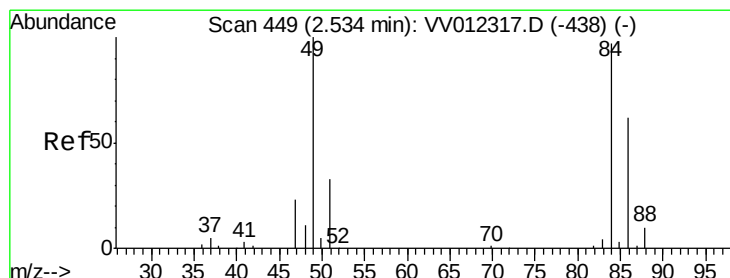
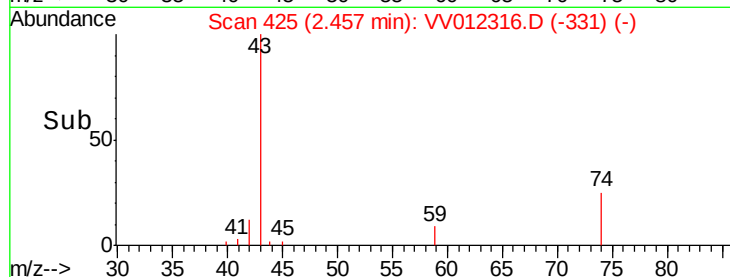
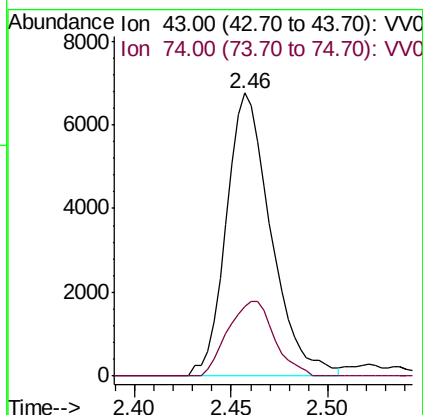
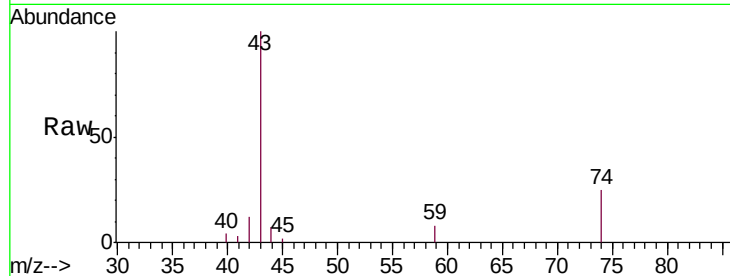




#15
Methyl Acetate
Concen: 6.502 ug/L
RT: 2.46 min Scan# 425
Delta R.T. 0.00 min
Lab File: VV012316.D
Acq: 21 Aug 2019 16:16

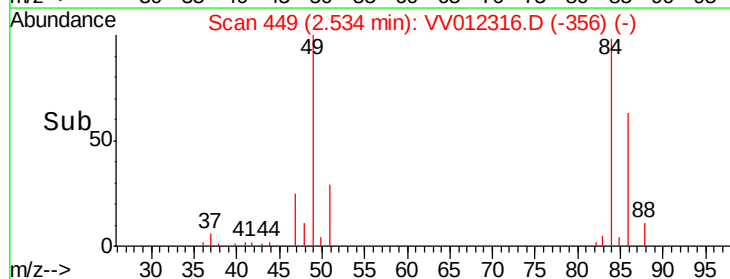
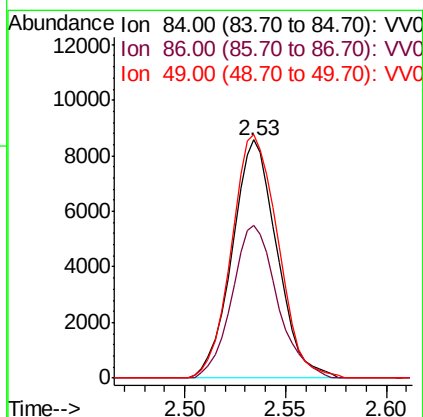
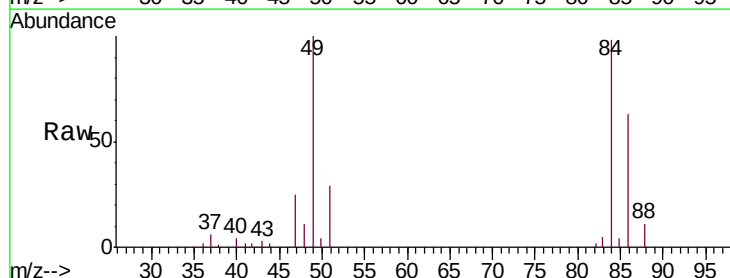
Instrument :
MSVOA_V
ClientSampleId :
VSTD01061

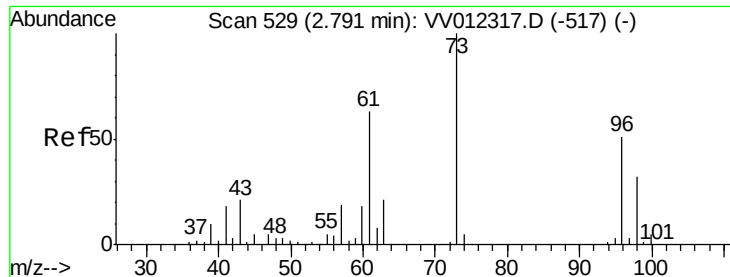
Tgt Ion: 43 Resp: 10876
Ion Ratio Lower Upper
43 100
74 27.5 22.6 33.8



#16
Methylene chloride
Concen: 8.136 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV012316.D
Acq: 21 Aug 2019 16:16

Tgt Ion: 84 Resp: 13322
Ion Ratio Lower Upper
84 100
86 63.9 44.7 83.1
49 102.2 72.1 133.9





#17

trans-1,2-Dichloroethene

Concen: 8.612 ug/L

RT: 2.79 min Scan# 529

Delta R.T. 0.00 min

Lab File: VV012316.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD01061

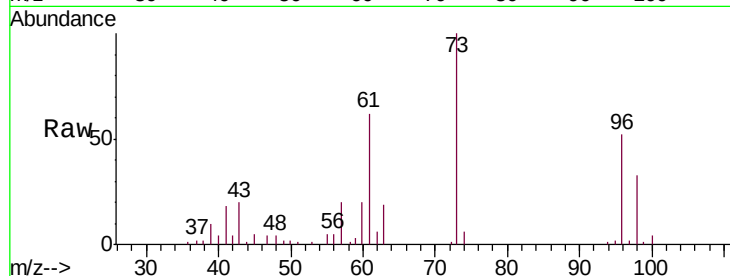
Tgt Ion: 96 Resp: 13551

Ion Ratio Lower Upper

96 100

61 119.0 87.0 161.6

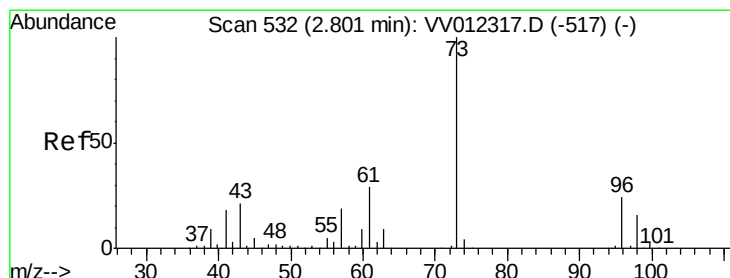
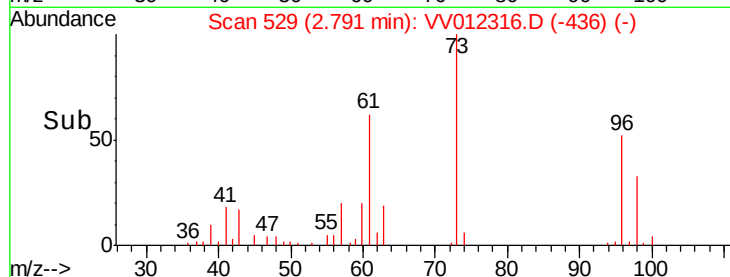
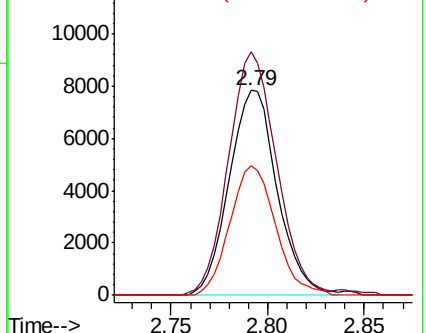
98 63.6 43.8 81.4



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



#18

Methyl tert-butyl Ether

Concen: 8.652 ug/L

RT: 2.80 min Scan# 532

Delta R.T. 0.00 min

Lab File: VV012316.D

Acq: 21 Aug 2019 16:16

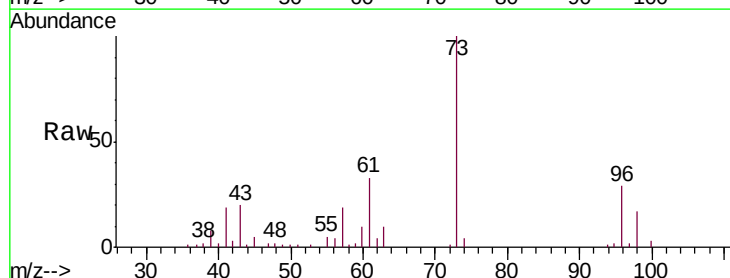
Tgt Ion: 73 Resp: 41621

Ion Ratio Lower Upper

73 100

43 20.7 16.6 25.0

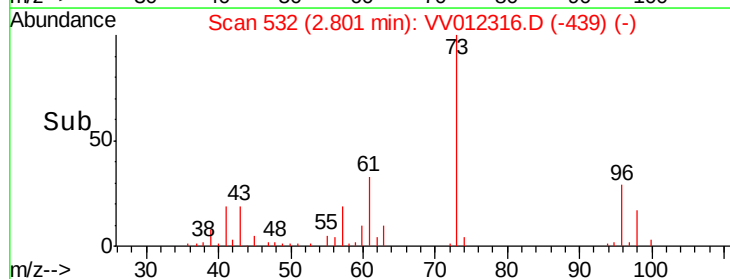
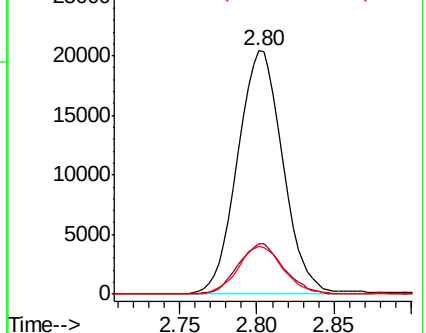
57 19.5 15.0 22.6

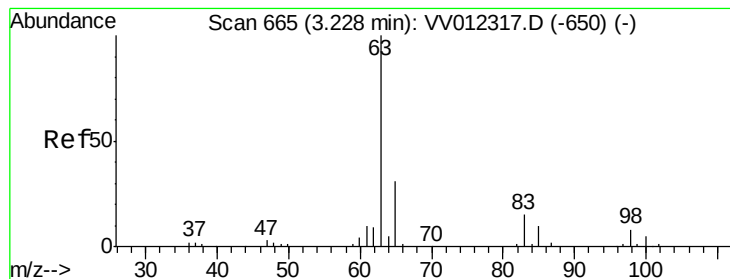


Abundance Ion 73.00 (72.70 to 73.70): VV0

Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0





#19

1,1-Dichloroethane

Concen: 7.880 ug/L

RT: 3.23 min Scan# 665

Delta R.T. 0.00 min

Lab File: VV012316.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD01061

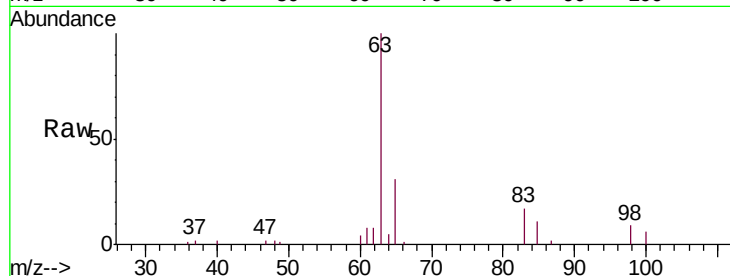
Tgt Ion: 63 Resp: 22078

Ion Ratio Lower Upper

63 100

65 30.6 21.7 40.3

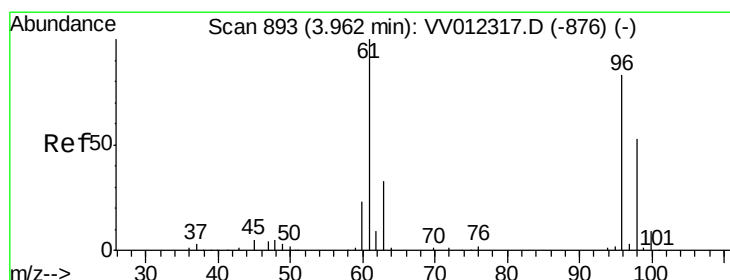
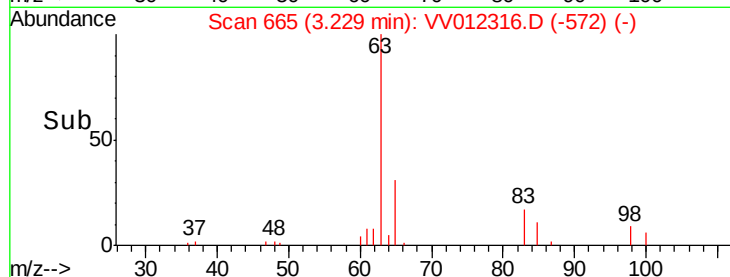
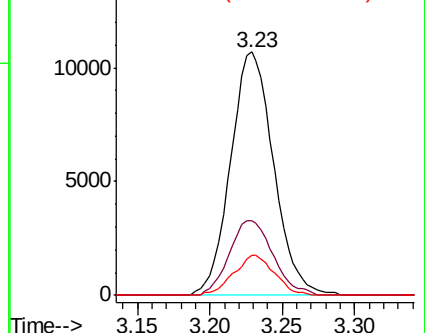
83 16.6 10.5 19.5



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 65.00 (64.70 to 65.70): VV0

Ion 83.00 (82.70 to 83.70): VV0



#20

cis-1,2-Dichloroethene

Concen: 8.272 ug/L

RT: 3.96 min Scan# 893

Delta R.T. 0.00 min

Lab File: VV012316.D

Acq: 21 Aug 2019 16:16

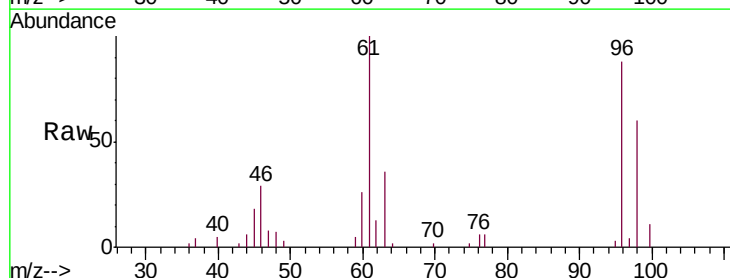
Tgt Ion: 96 Resp: 14423

Ion Ratio Lower Upper

96 100

61 114.3 84.4 156.7

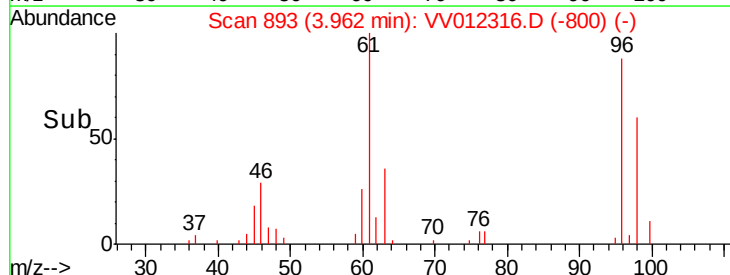
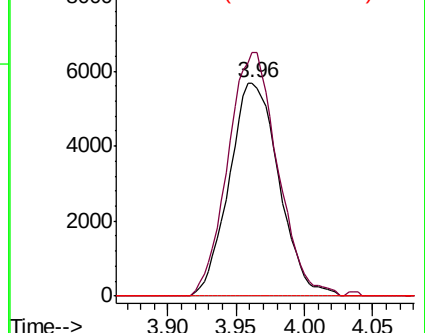
68 0.0 0.0 0.0

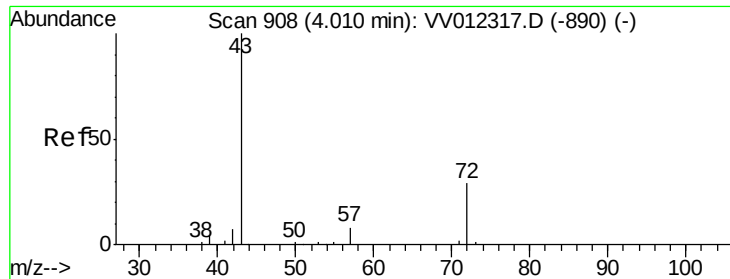


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 12.271 ug/L

RT: 4.02 min Scan# 911

Delta R.T. 0.01 min

Lab File: VV012316.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA_V

ClientSampleId :

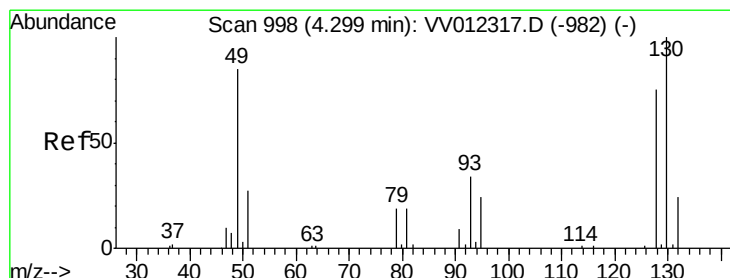
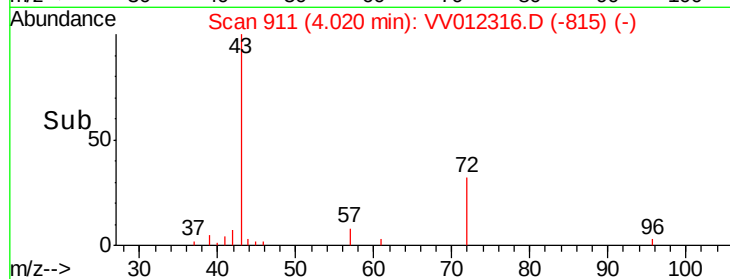
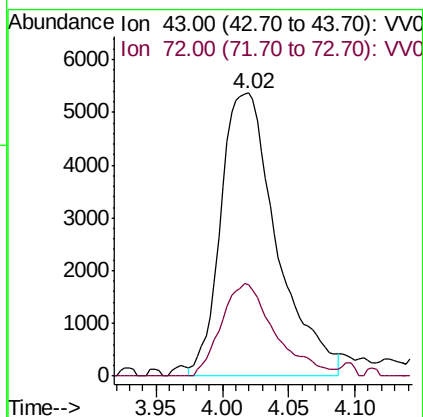
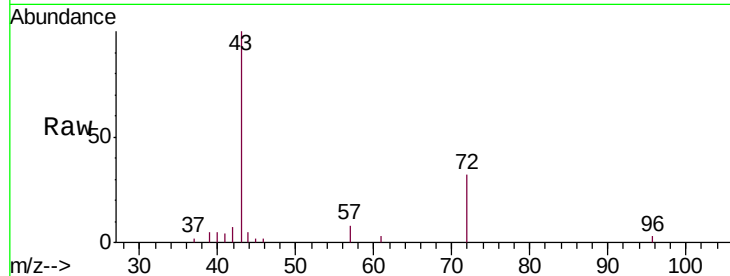
VSTD01061

Tgt Ion: 43 Resp: 15779

Ion Ratio Lower Upper

43 100

72 29.2 15.0 45.1



#23

Bromochloromethane

Concen: 8.964 ug/L

RT: 4.30 min Scan# 998

Delta R.T. 0.00 min

Lab File: VV012316.D

Acq: 21 Aug 2019 16:16

Tgt Ion: 128 Resp: 8256

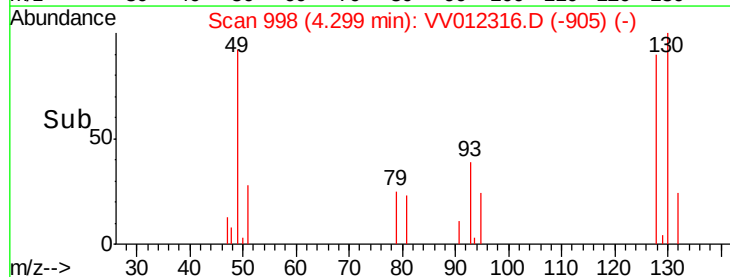
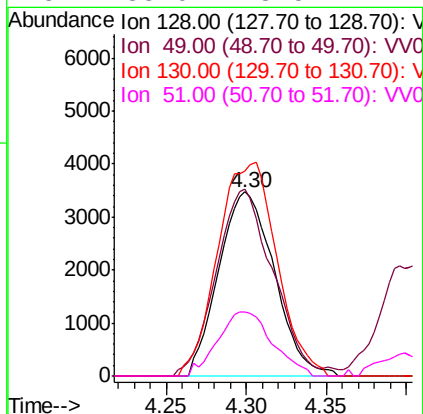
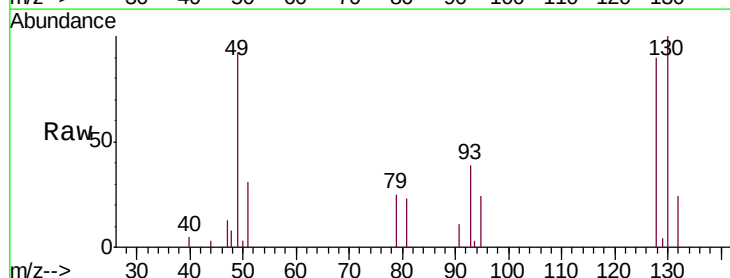
Ion Ratio Lower Upper

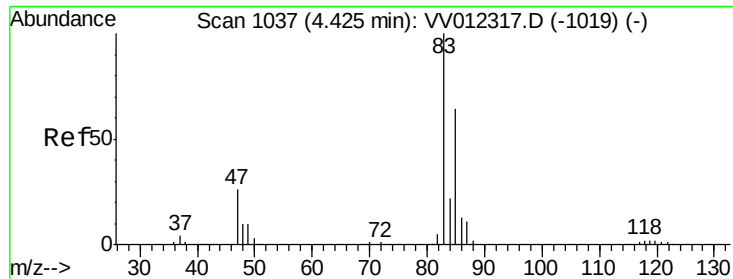
128 100

49 101.8 78.8 146.4

130 111.3 93.0 172.6

51 35.0 28.5 42.7

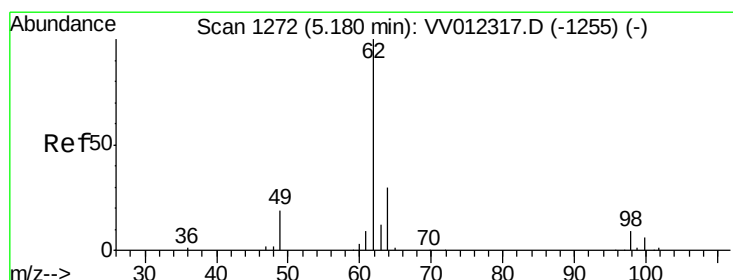
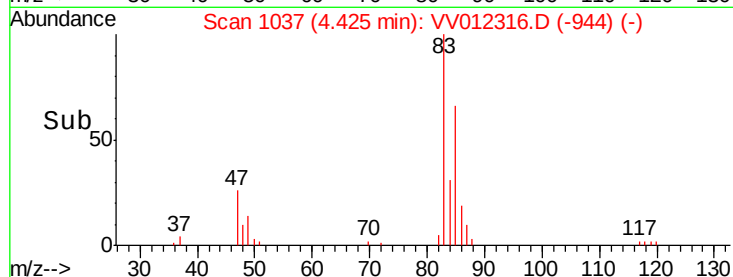
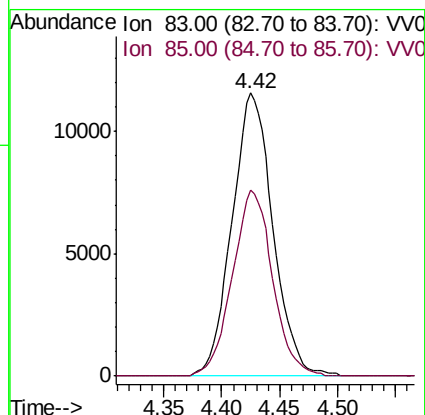
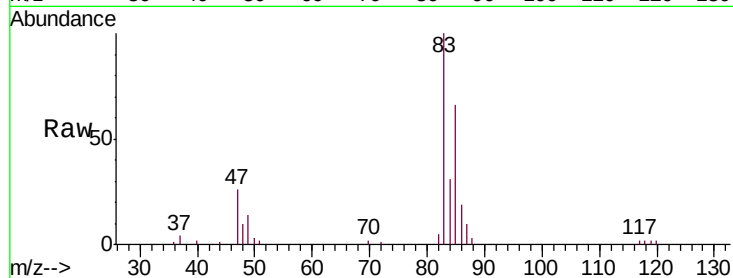




#25
Chloroform
Concen: 9.353 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV012316.D
Acq: 21 Aug 2019 16:16

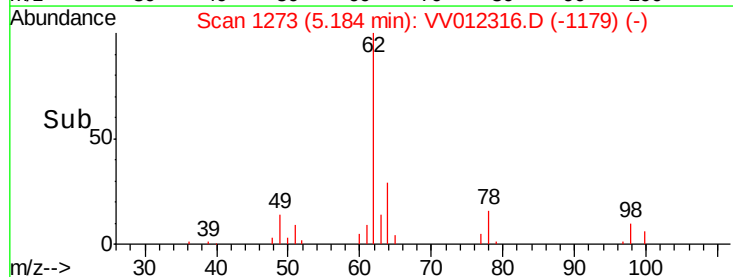
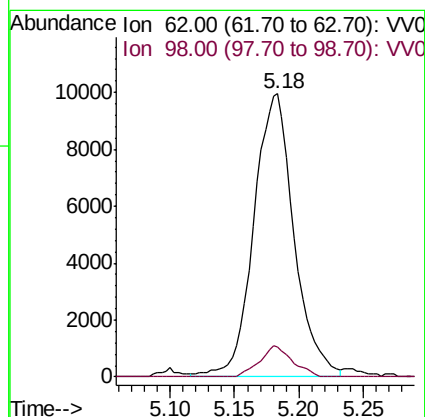
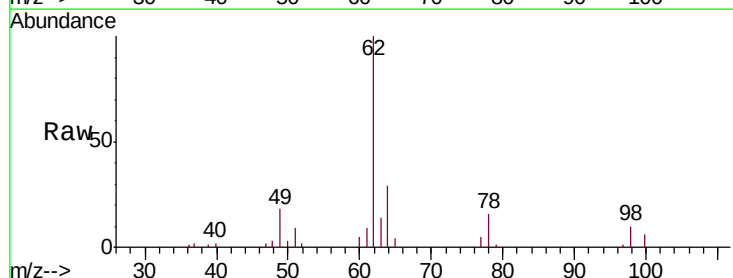
Instrument :
MSVOA_V
ClientSampleId :
VSTD01061

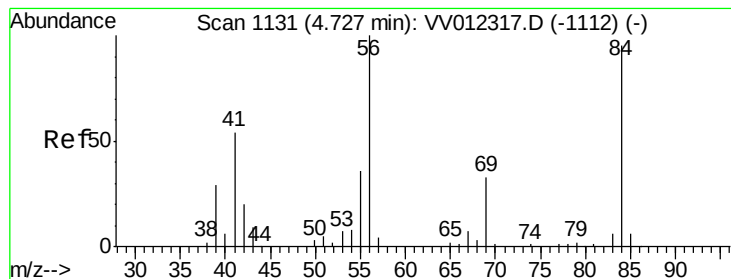
Tgt Ion: 83 Resp: 28359
Ion Ratio Lower Upper
83 100
85 65.6 44.5 82.7



#27
1,2-Dichloroethane
Concen: 9.405 ug/L
RT: 5.18 min Scan# 1273
Delta R.T. 0.00 min
Lab File: VV012316.D
Acq: 21 Aug 2019 16:16

Tgt Ion: 62 Resp: 21660
Ion Ratio Lower Upper
62 100
98 10.4 6.9 10.3#





#29

Cyclohexane

Concen: 7.430 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VV012316.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD01061

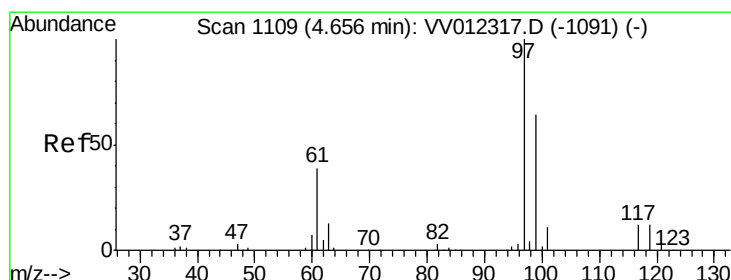
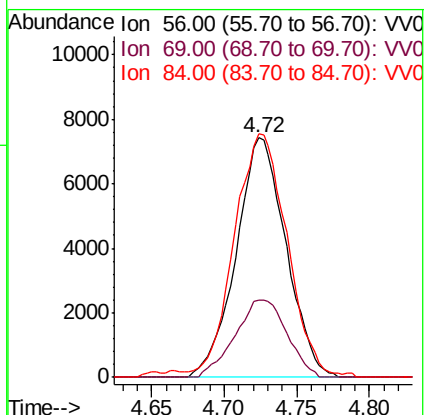
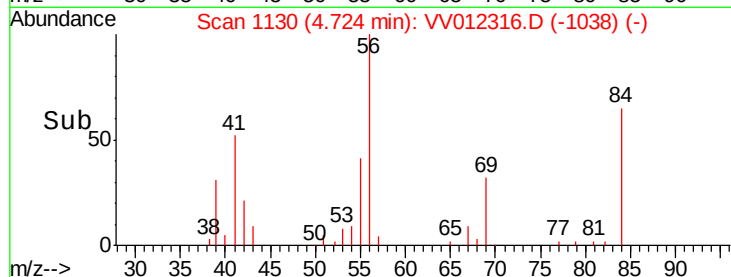
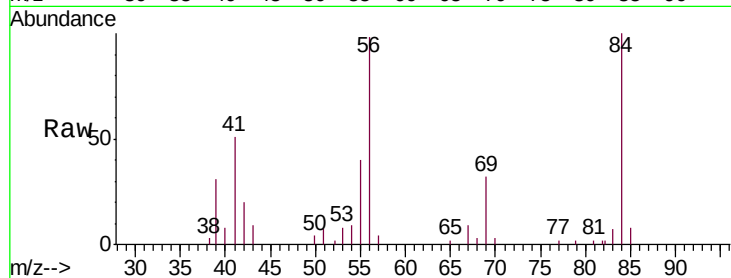
Tgt Ion: 56 Resp: 17724

Ion Ratio Lower Upper

56 100

69 33.7 26.8 40.2

84 107.9 81.7 122.5



#30

1,1,1-Trichloroethane

Concen: 9.999 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VV012316.D

Acq: 21 Aug 2019 16:16

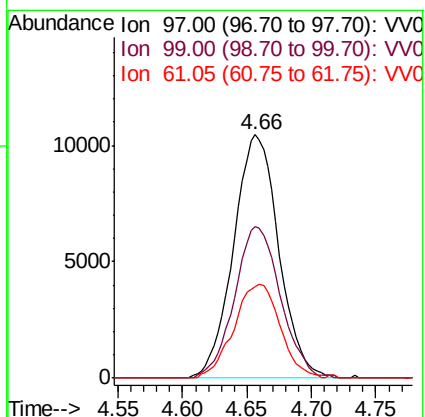
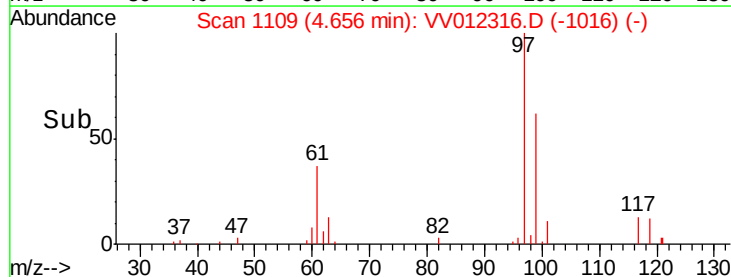
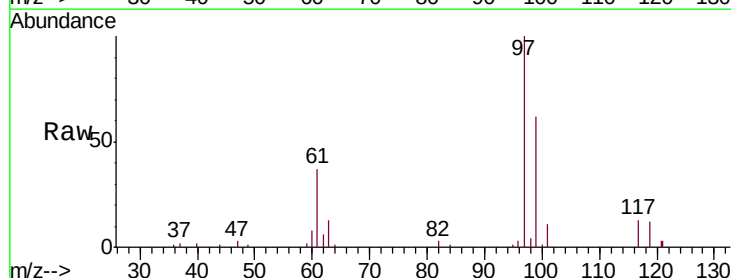
Tgt Ion: 97 Resp: 25566

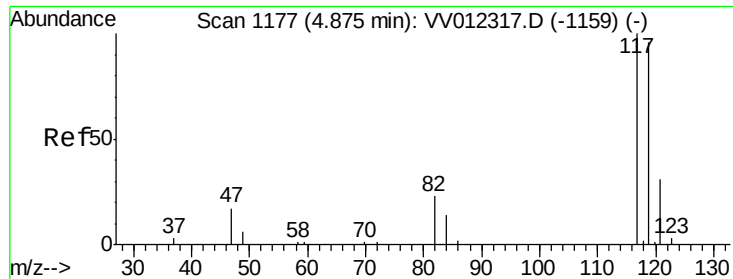
Ion Ratio Lower Upper

97 100

99 63.1 50.8 76.2

61 39.4 31.0 46.6





#31

Carbon tetrachloride

Concen: 10.463 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VV012316.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA_V

ClientSampleId :

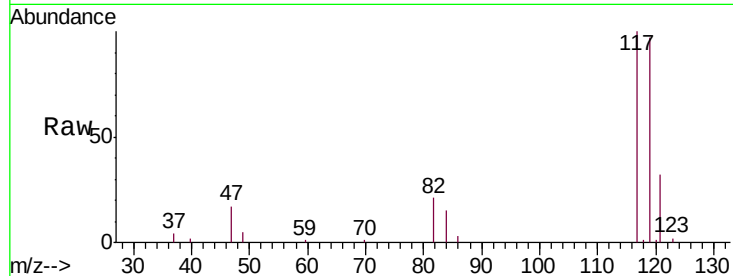
VSTD01061

Tgt Ion:117 Resp: 24111

Ion Ratio Lower Upper

117 100

119 93.1 77.7 116.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

4.87

10000

8000

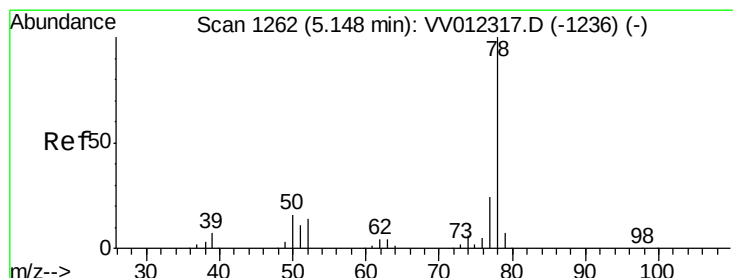
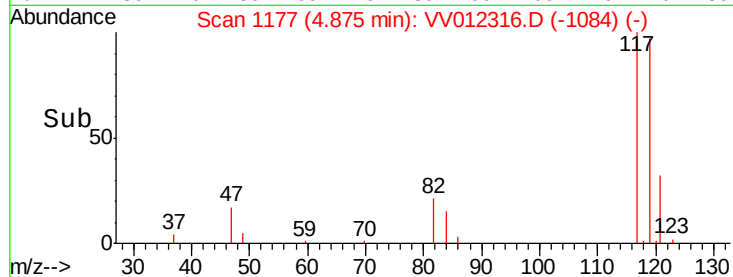
6000

4000

2000

0

Time-->



#33

Benzene

Concen: 8.379 ug/L

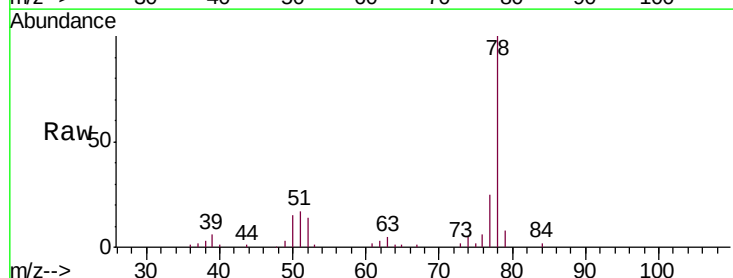
RT: 5.15 min Scan# 1262

Delta R.T. 0.00 min

Lab File: VV012316.D

Acq: 21 Aug 2019 16:16

Tgt Ion: 78 Resp: 50943



Abundance Ion 78.00 (77.70 to 78.70): VV0

5.15

25000

20000

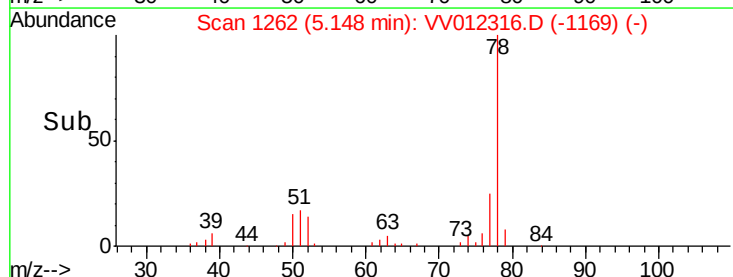
15000

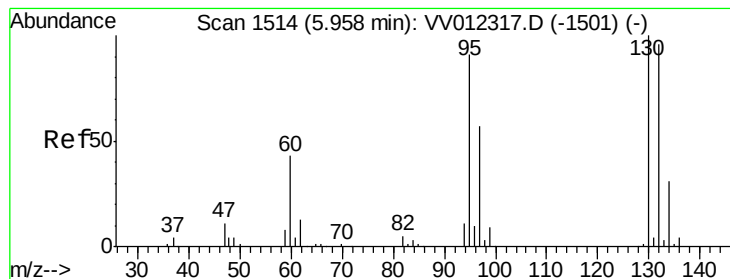
10000

5000

0

Time-->





#34

Trichloroethene

Concen: 8.910 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. 0.00 min

Lab File: VV012316.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD01061

Tgt Ion: 95 Resp: 14632

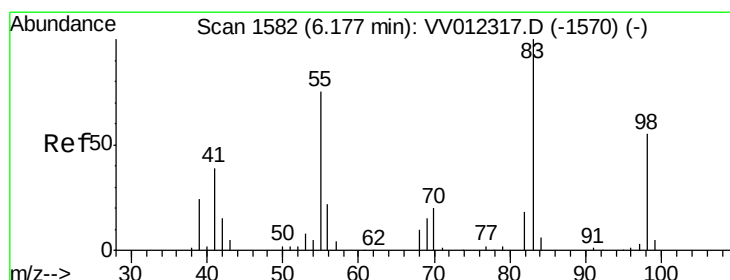
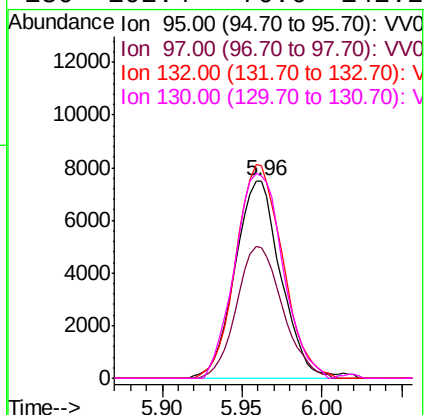
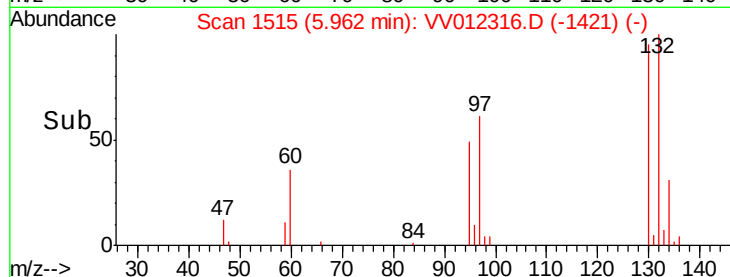
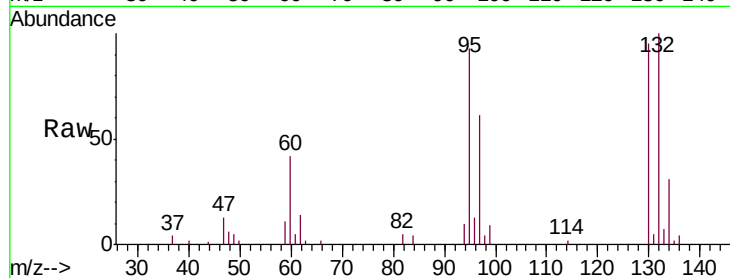
Ion Ratio Lower Upper

95 100

97 66.1 43.6 81.0

132 107.5 73.9 137.3

130 102.4 76.6 142.2



#35

Methylcyclohexane

Concen: 8.708 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. 0.00 min

Lab File: VV012316.D

Acq: 21 Aug 2019 16:16

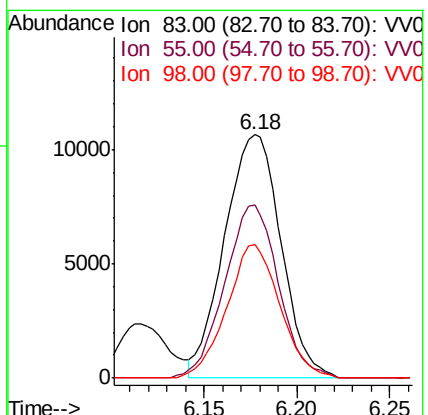
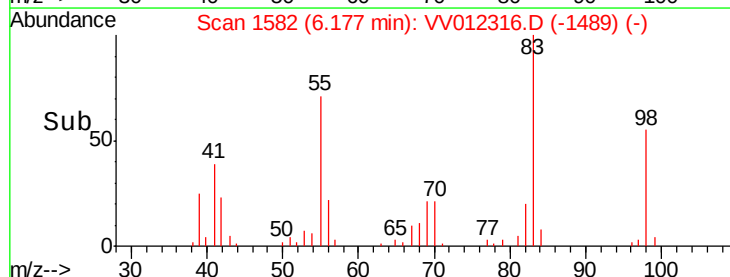
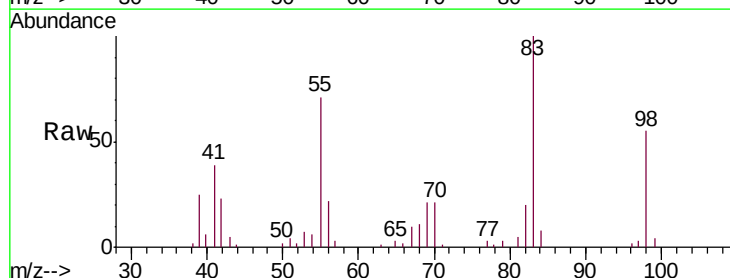
Tgt Ion: 83 Resp: 22513

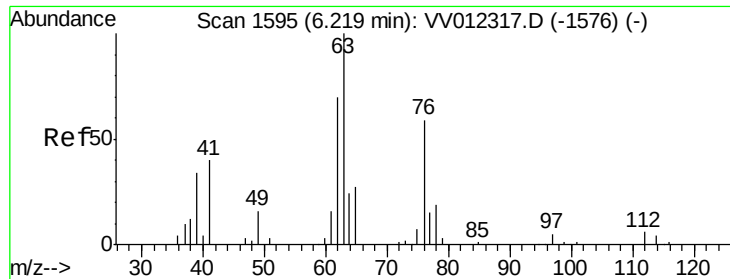
Ion Ratio Lower Upper

83 100

55 67.7 56.2 84.4

98 51.7 42.2 63.4

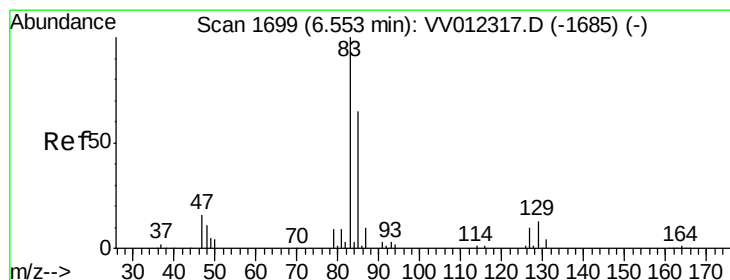
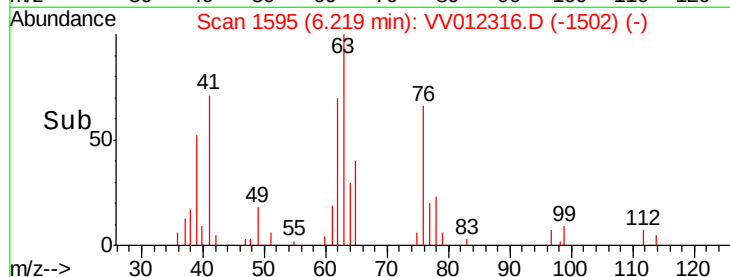
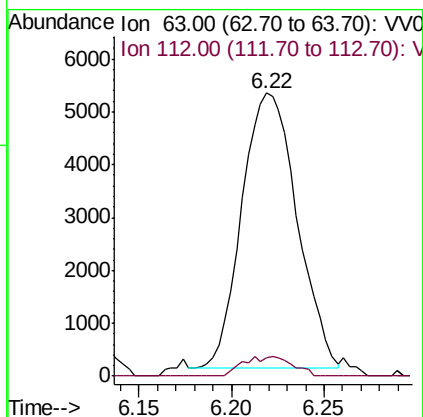
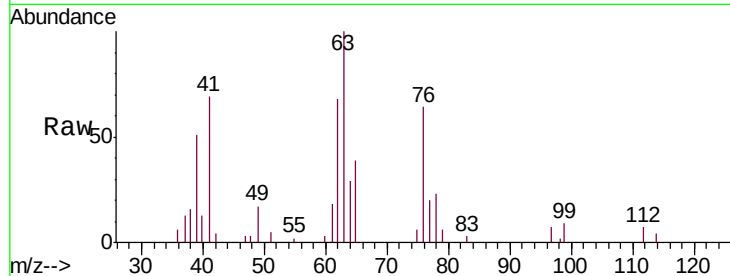




#37
 1,2-Dichloropropane
 Concen: 7.032 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: VV012316.D
 Acq: 21 Aug 2019 16:16

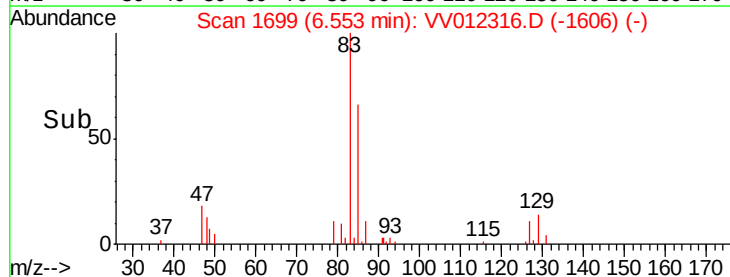
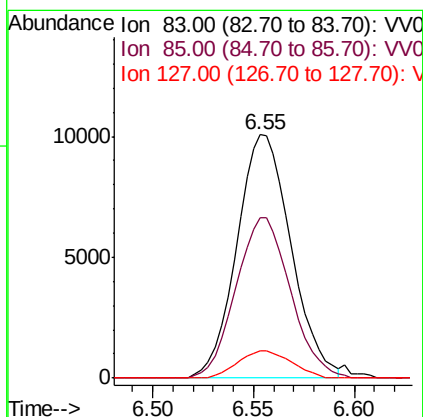
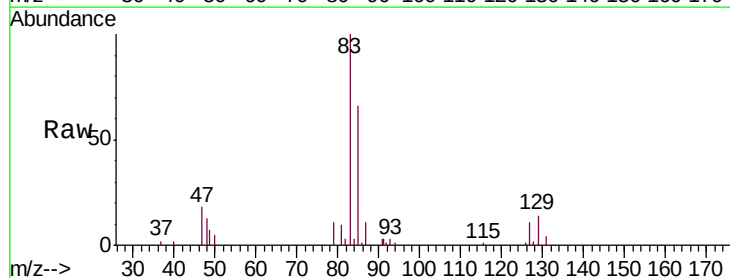
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD01061

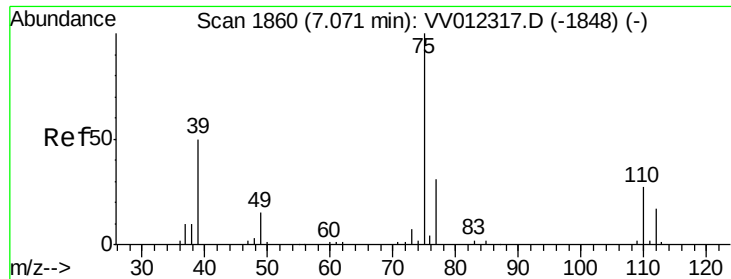
Tgt Ion: 63 Resp: 10708
 Ion Ratio Lower Upper
 63 100
 112 3.7 4.7 7.1#



#38
 Bromodichloromethane
 Concen: 8.871 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV012316.D
 Acq: 21 Aug 2019 16:16

Tgt Ion: 83 Resp: 18908
 Ion Ratio Lower Upper
 83 100
 85 66.1 45.7 84.9
 127 12.6 7.8 11.8#

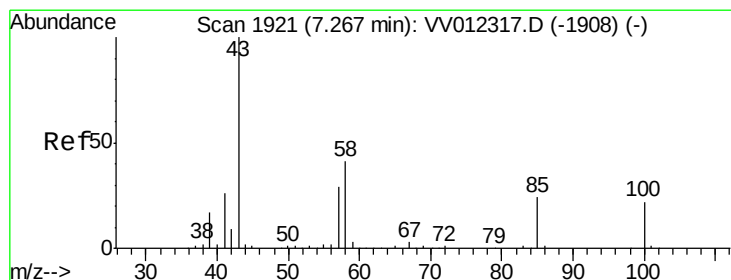
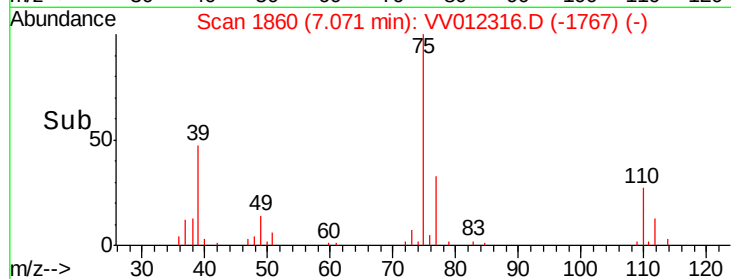
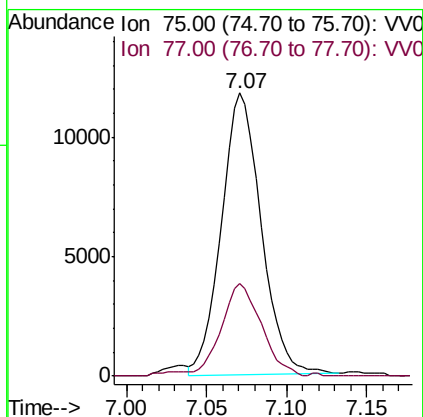
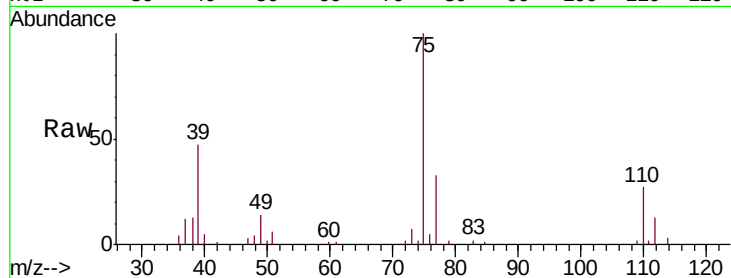




#39
 cis-1,3-Dichloropropene
 Concen: 8.169 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV012316.D
 Acq: 21 Aug 2019 16:16

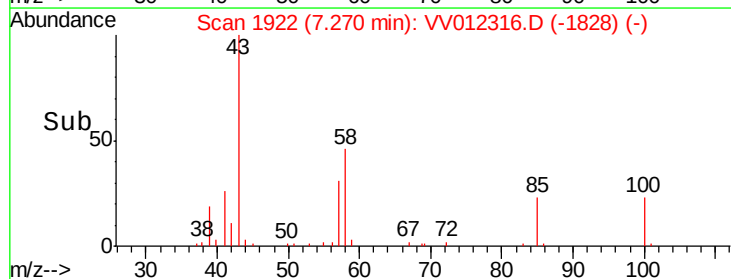
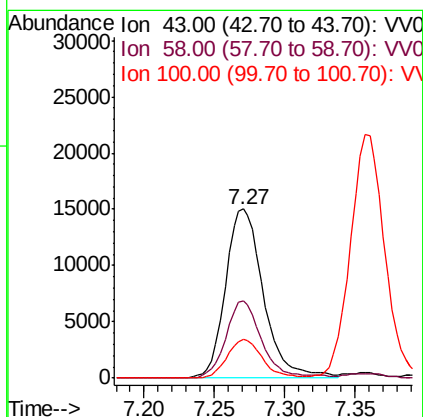
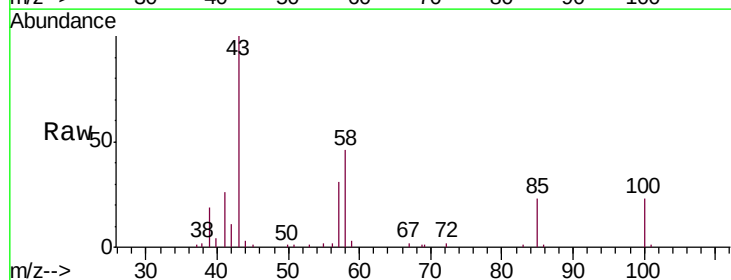
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD01061

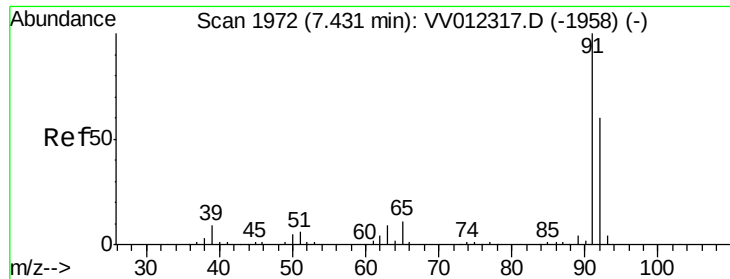
Tgt Ion: 75 Resp: 20115
 Ion Ratio Lower Upper
 75 100
 77 33.0 22.5 41.7



#40
 4-Methyl-2-pentanone
 Concen: 13.472 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VV012316.D
 Acq: 21 Aug 2019 16:16

Tgt Ion: 43 Resp: 28297
 Ion Ratio Lower Upper
 43 100
 58 42.5 33.7 50.5
 100 21.1 17.8 26.6





#42

Toluene

Concen: 8.609 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV012316.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA_V

ClientSampleId :

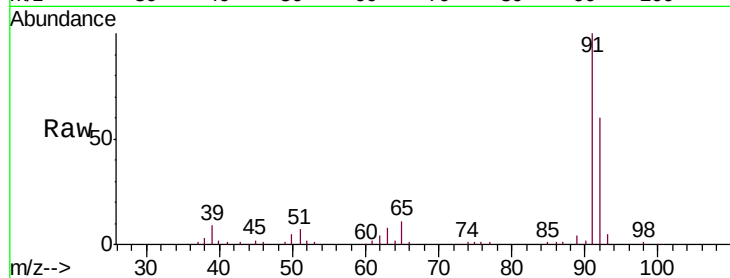
VSTD01061

Tgt Ion: 91 Resp: 56245

Ion Ratio Lower Upper

91 100

92 60.2 42.4 78.6



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0

7.43

30000

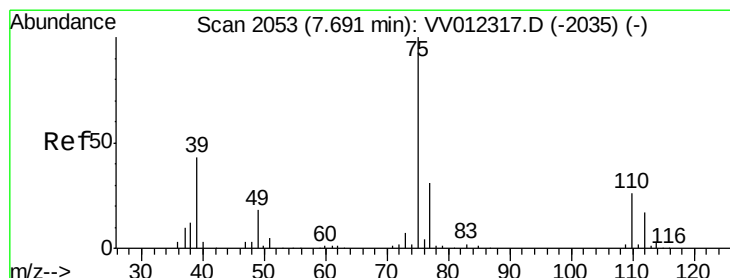
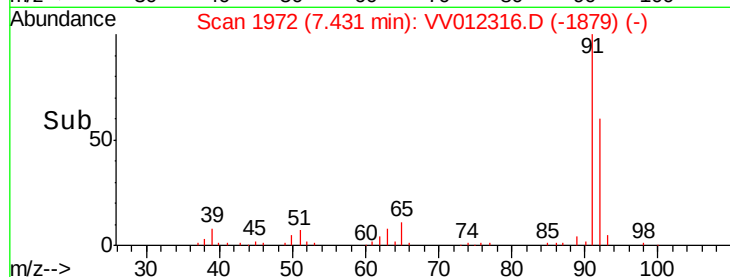
20000

10000

0

Time-->

7.35 7.40 7.45 7.50



#44

trans-1,3-Dichloropropene

Concen: 8.138 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV012316.D

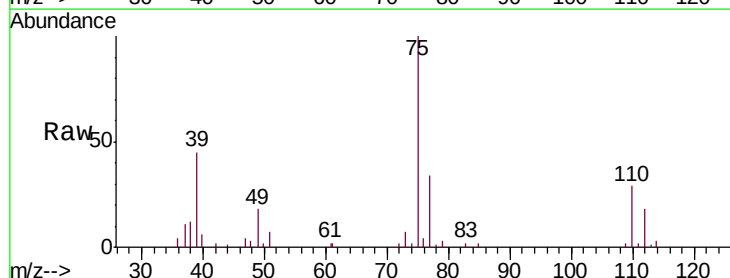
Acq: 21 Aug 2019 16:16

Tgt Ion: 75 Resp: 18439

Ion Ratio Lower Upper

75 100

77 33.8 21.7 40.3



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

7.69

10000

8000

6000

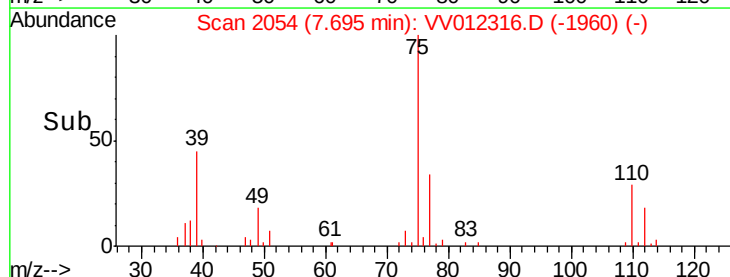
4000

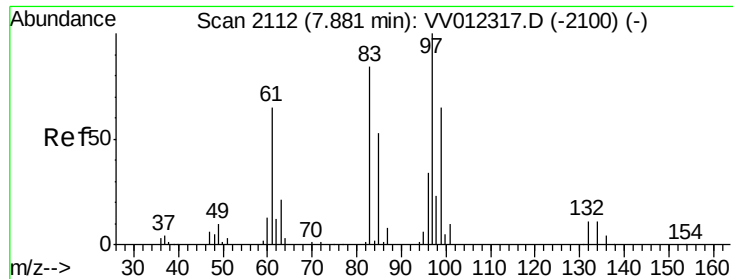
2000

0

Time-->

7.65 7.70 7.75

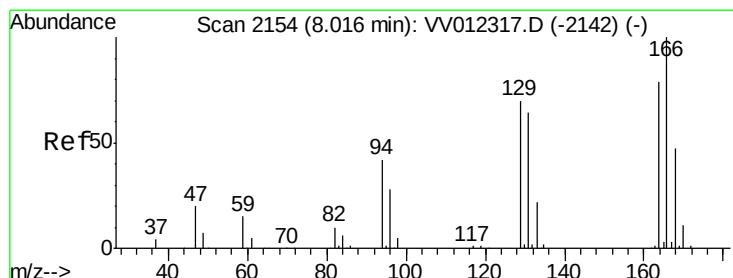
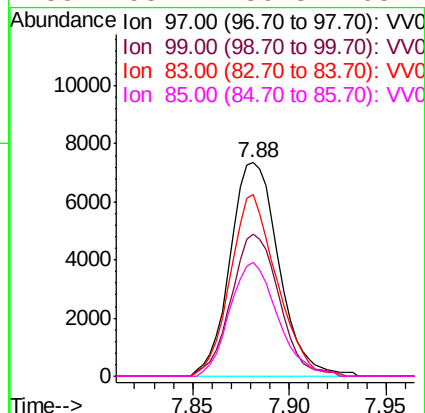
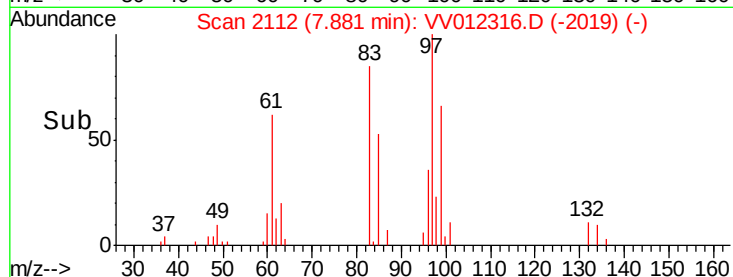
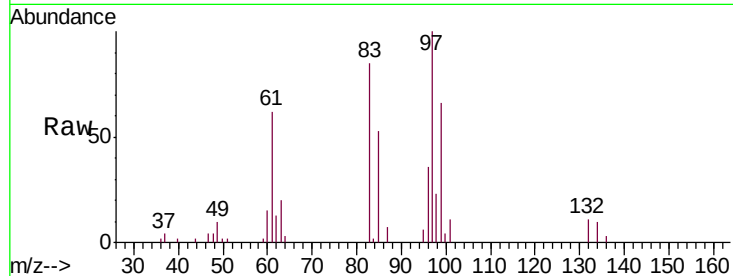




#45
 1,1,2-Trichloroethane
 Concen: 8.397 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV012316.D
 Acq: 21 Aug 2019 16:16

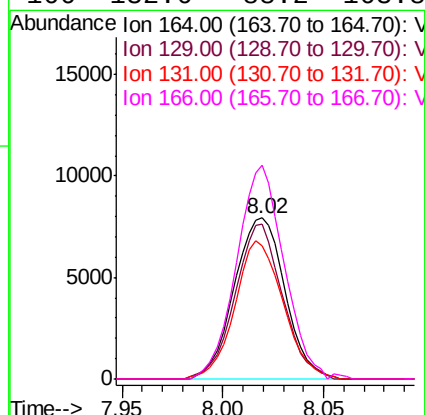
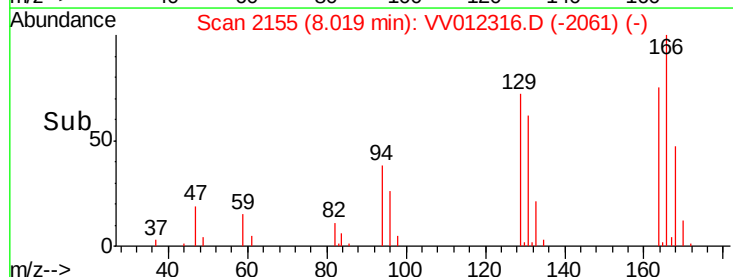
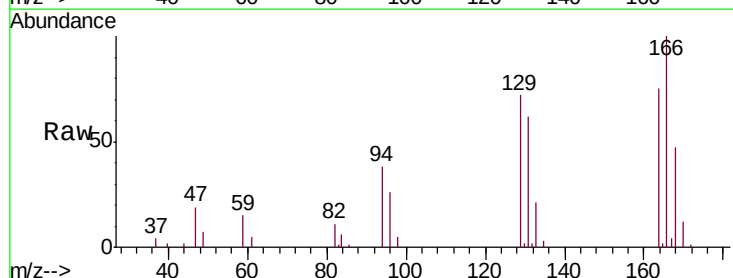
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD01061

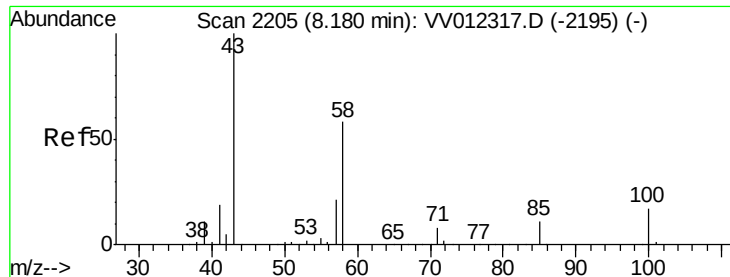
Tgt Ion:	97	Resp:	12874
Ion	Ratio	Lower	Upper
97	100		
99	66.4	45.5	84.5
83	84.9	58.5	108.7
85	53.2	36.8	68.4



#46
 Tetrachloroethene
 Concen: 9.809 ug/L
 RT: 8.02 min Scan# 2155
 Delta R.T. 0.00 min
 Lab File: VV012316.D
 Acq: 21 Aug 2019 16:16

Tgt Ion:	164	Resp:	13995
Ion	Ratio	Lower	Upper
164	100		
129	95.8	61.5	114.3
131	82.5	56.6	105.0
166	132.6	88.2	163.8

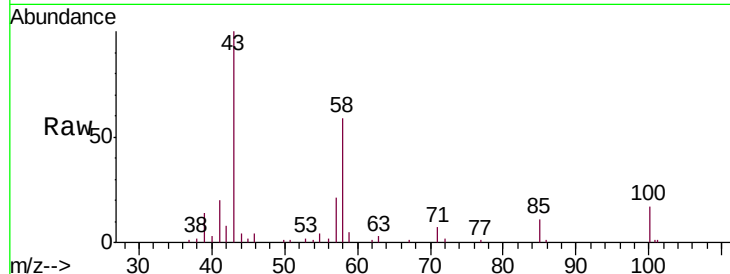




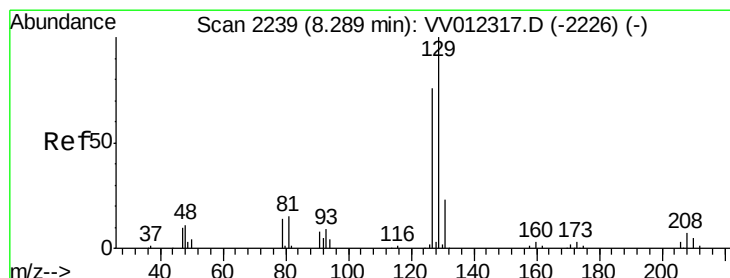
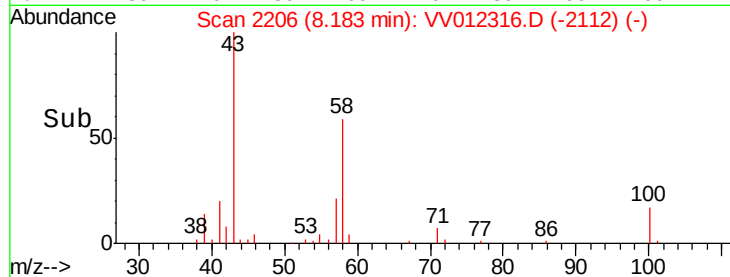
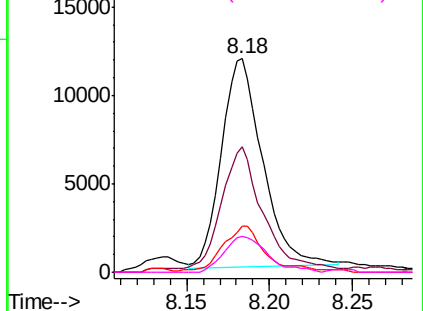
#48
2-Hexanone
Concen: 11.989 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV012316.D
Acq: 21 Aug 2019 16:16

Instrument :
MSVOA_V
ClientSampleId :
VSTD01061

Tgt Ion: 43 Resp: 20487
Ion Ratio Lower Upper
43 100
58 58.7 45.7 68.5
57 22.9 16.8 25.2
100 18.0 13.7 20.5

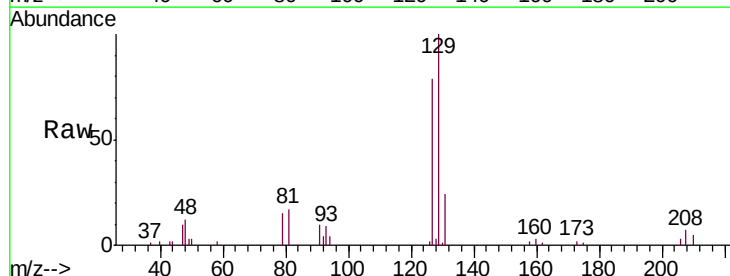


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

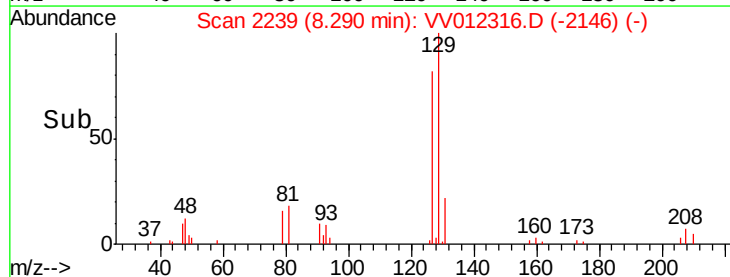
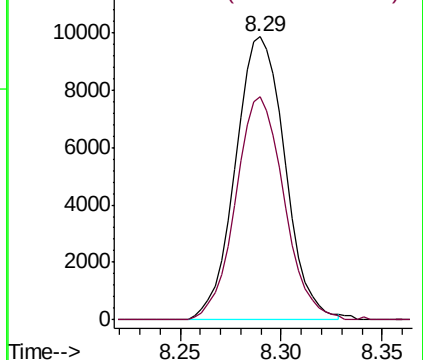


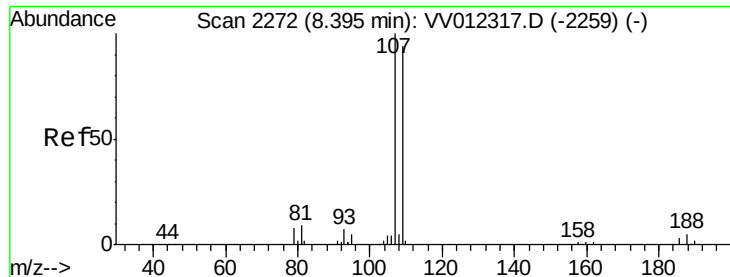
#49
Dibromochloromethane
Concen: 9.473 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV012316.D
Acq: 21 Aug 2019 16:16

Tgt Ion: 129 Resp: 16951
Ion Ratio Lower Upper
129 100
127 78.8 53.5 99.5



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

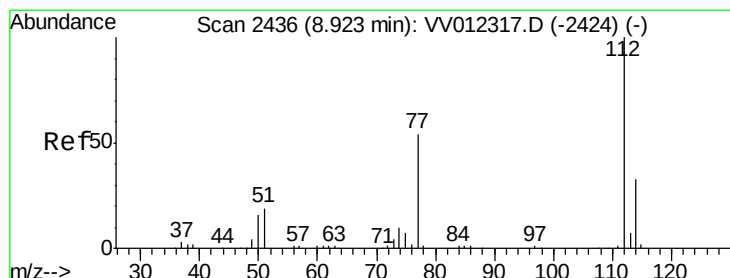
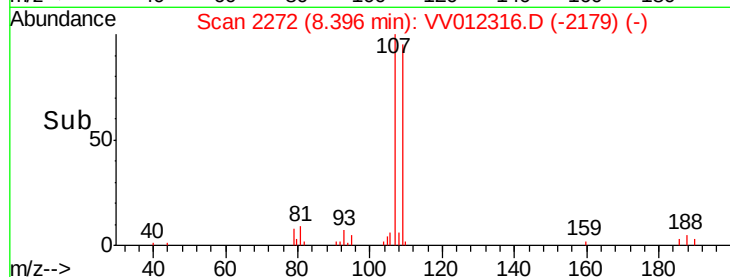
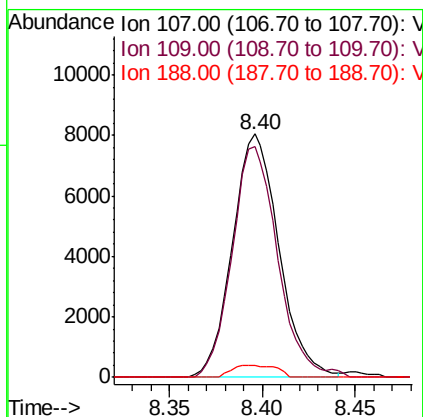
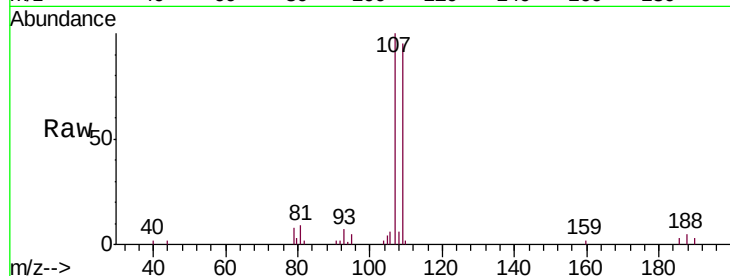




#50
1,2-Dibromoethane
Concen: 8.480 ug/L
RT: 8.40 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VV012316.D
Acq: 21 Aug 2019 16:16

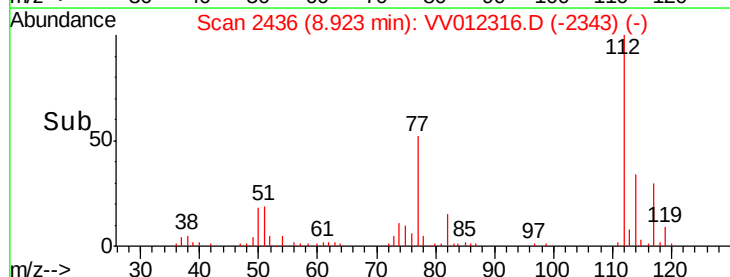
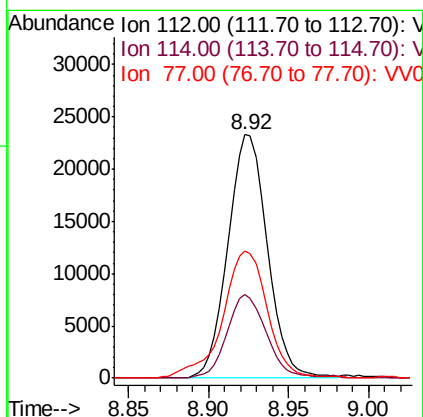
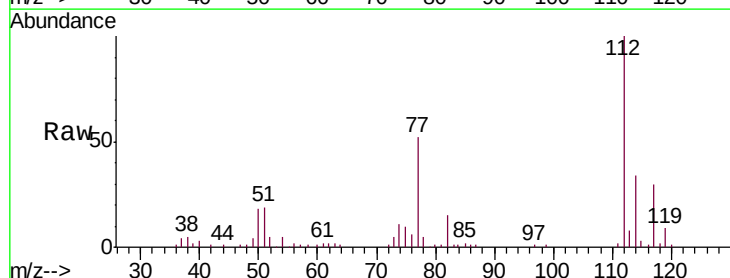
Instrument :
MSVOA_V
ClientSampleId :
VSTD01061

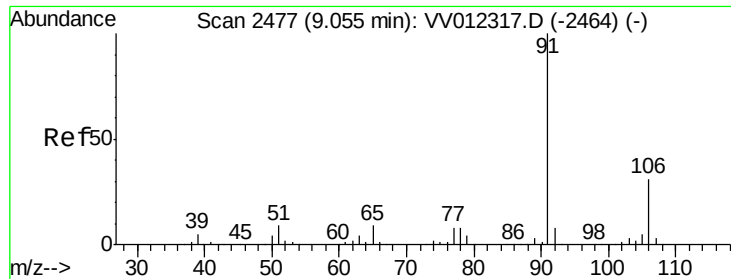
Tgt Ion:107 Resp: 14053
Ion Ratio Lower Upper
107 100
109 94.6 65.7 121.9
188 4.8 3.9 5.9



#51
Chlorobenzene
Concen: 8.960 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. 0.00 min
Lab File: VV012316.D
Acq: 21 Aug 2019 16:16

Tgt Ion:112 Resp: 39303
Ion Ratio Lower Upper
112 100
114 34.5 23.4 43.6
77 52.1 43.8 65.6





#52

Ethylbenzene

Concen: 8.895 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV012316.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA_V

ClientSampleId :

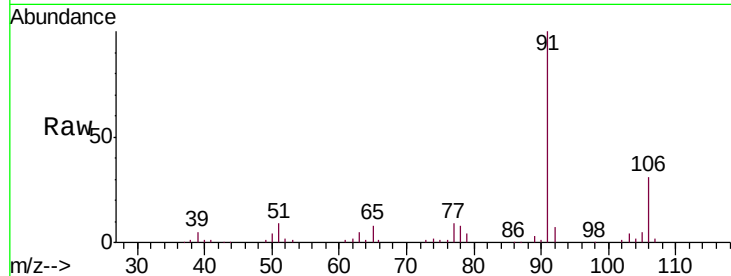
VSTD01061

Tgt Ion: 91 Resp: 64519

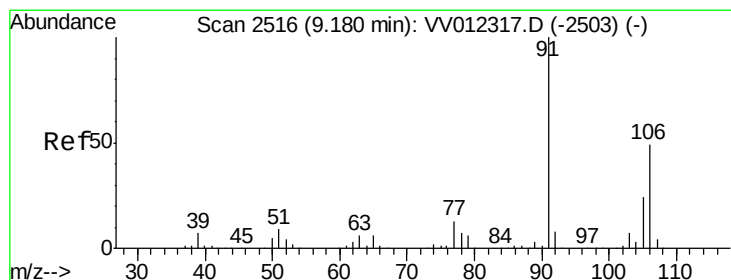
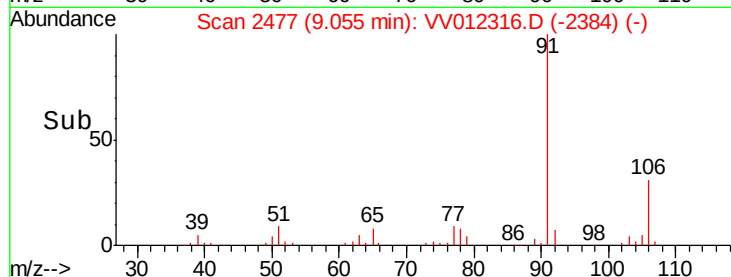
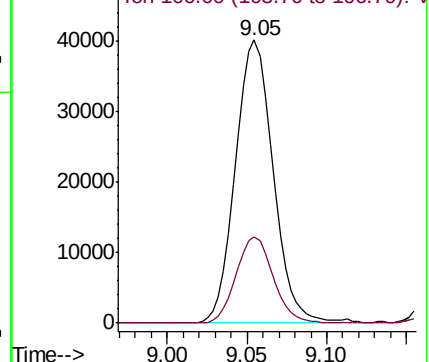
Ion Ratio Lower Upper

91 100

106 30.7 22.0 41.0



Abundance Ion 91.00 (90.70 to 91.70): VV012316.D (-2384) (-)



#53

m,p-Xylene

Concen: 8.973 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV012316.D

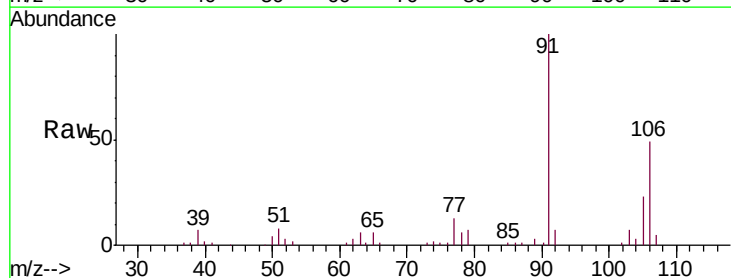
Acq: 21 Aug 2019 16:16

Tgt Ion: 106 Resp: 25001

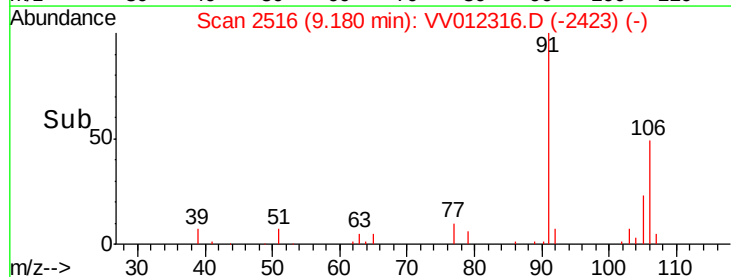
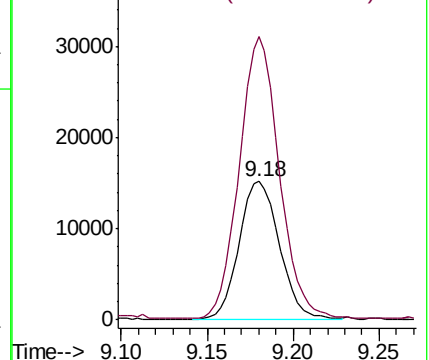
Ion Ratio Lower Upper

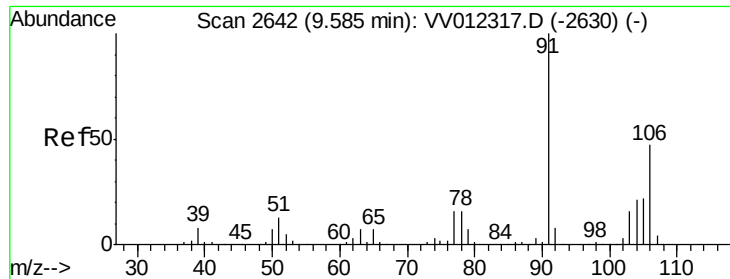
106 100

91 204.8 143.5 266.5



Abundance Ion 106.00 (105.70 to 106.70): VV012316.D (-2423) (-)





#54

o-xylene

Concen: 9.053 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV012316.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA_V

ClientSampleId :

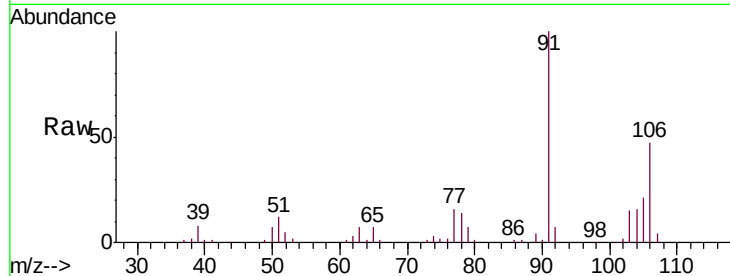
VSTD01061

Tgt Ion:106 Resp: 24516

Ion Ratio Lower Upper

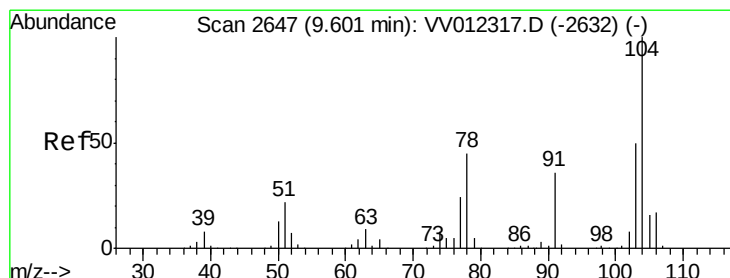
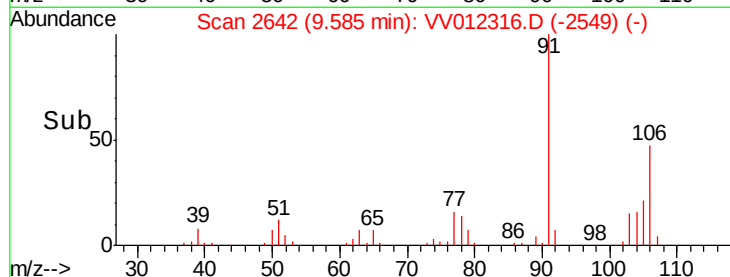
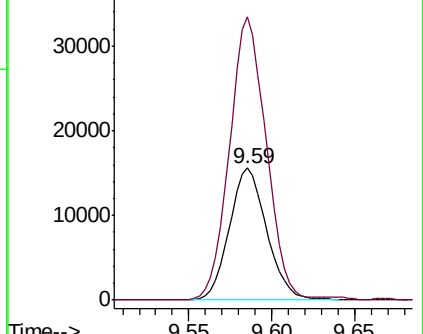
106 100

91 214.5 149.2 277.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 8.629 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV012316.D

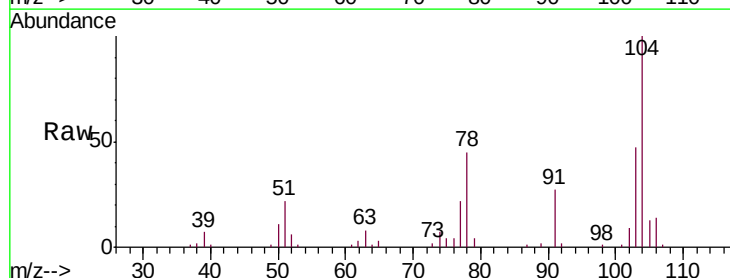
Acq: 21 Aug 2019 16:16

Tgt Ion:104 Resp: 39953

Ion Ratio Lower Upper

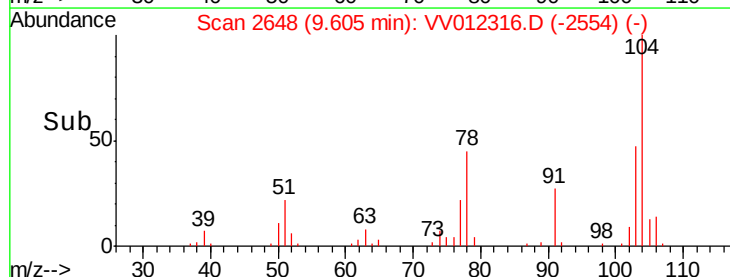
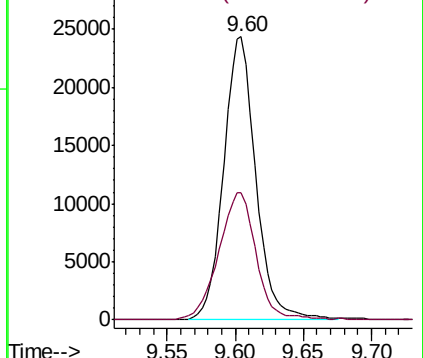
104 100

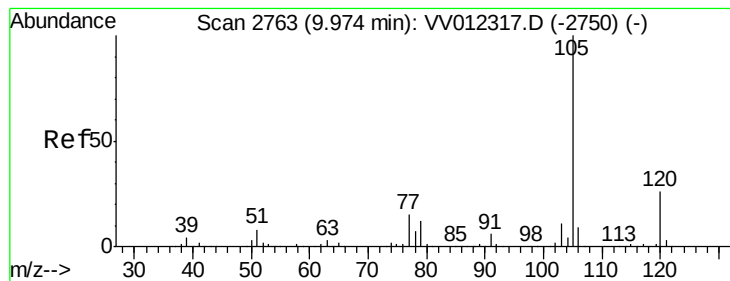
78 44.8 31.8 59.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 9.173 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV012316.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA_V

ClientSampled :

VSTD01061

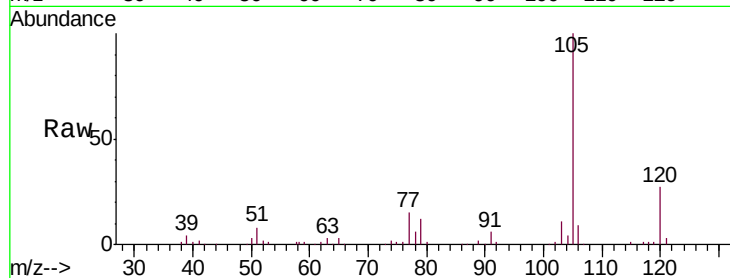
Tgt Ion: 105 Resp: 65866

Ion Ratio Lower Upper

105 100

120 26.8 21.2 31.8

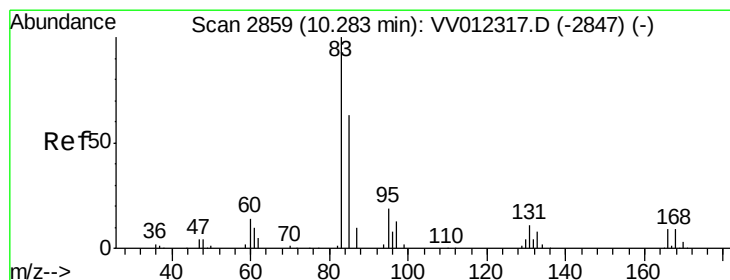
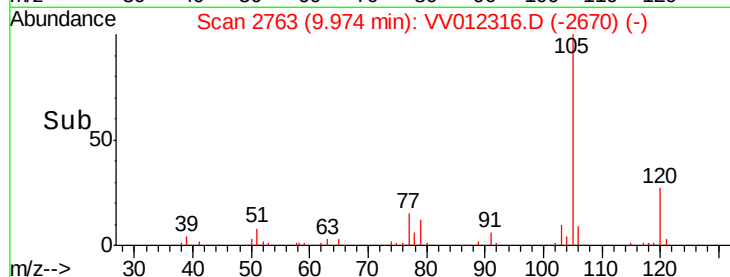
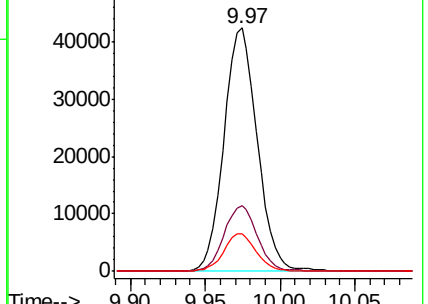
77 14.8 12.2 18.2



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: 7.121 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VV012316.D

Acq: 21 Aug 2019 16:16

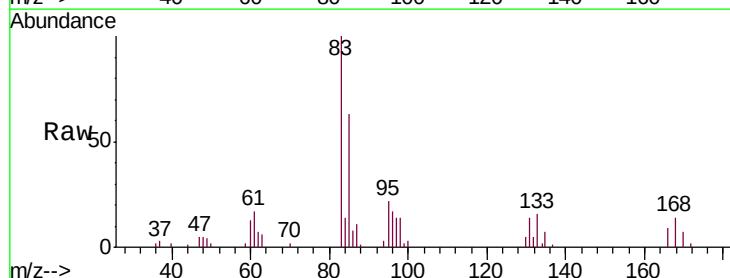
Tgt Ion: 83 Resp: 17662

Ion Ratio Lower Upper

83 100

85 63.0 44.6 82.8

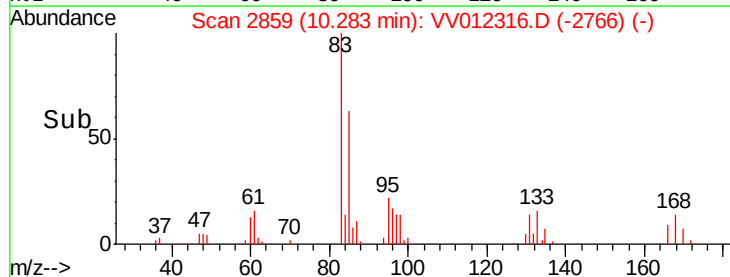
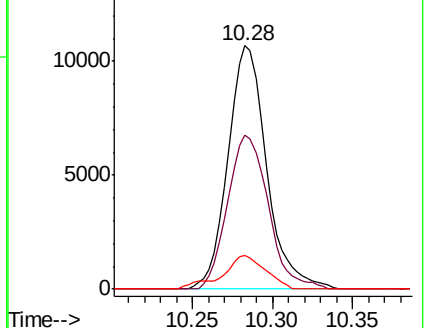
131 14.1 9.7 14.5

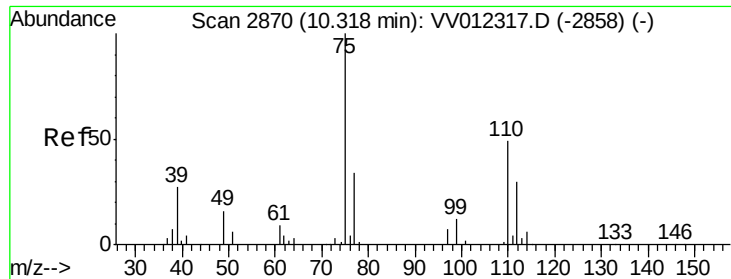


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 8.058 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV012316.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA_V

ClientSampleId :

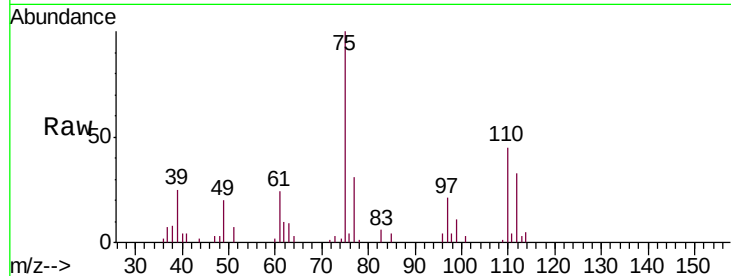
VSTD01061

Tgt Ion: 75 Resp: 15772

Ion Ratio Lower Upper

75 100

77 32.7 26.8 40.2

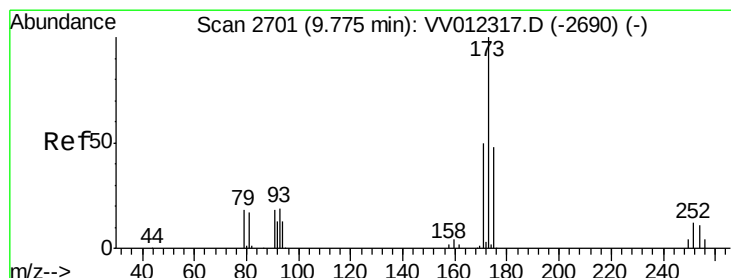
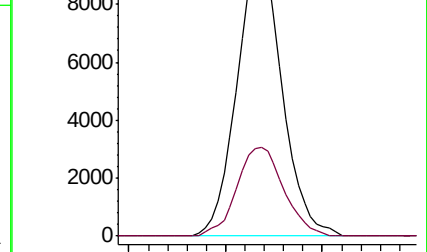
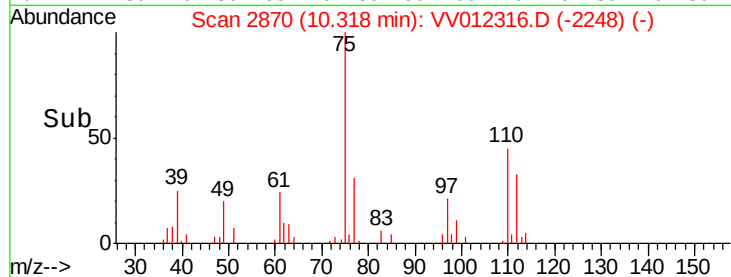


Abundance Ion 75.00 (74.70 to 75.70): VV012317.D (-2858) (-)

Ion 77.00 (76.70 to 77.70): VV012317.D (-2858) (-)

10.32

Time-->



#61

Bromoform

Concen: 10.084 ug/L

RT: 9.78 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV012316.D

Acq: 21 Aug 2019 16:16

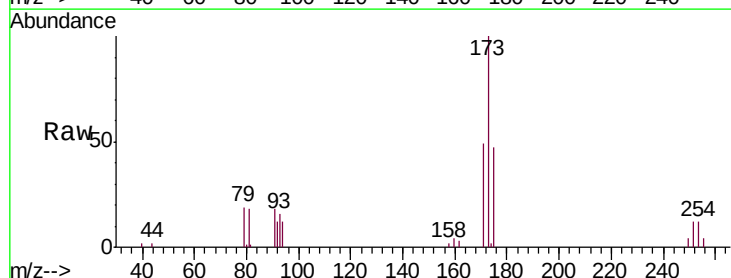
Tgt Ion: 173 Resp: 13307

Ion Ratio Lower Upper

173 100

175 48.0 39.0 58.4

254 10.7 9.3 13.9



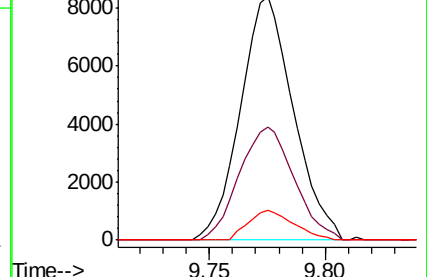
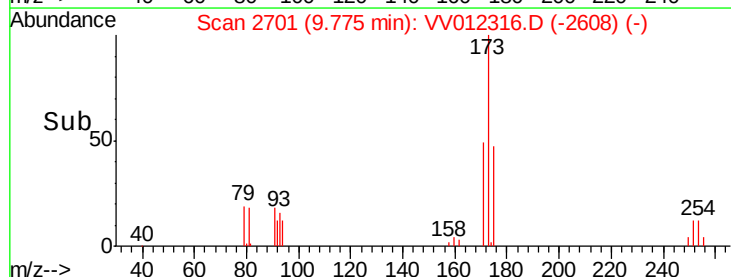
Abundance Ion 173.00 (172.70 to 173.70): VV012317.D (-2690) (-)

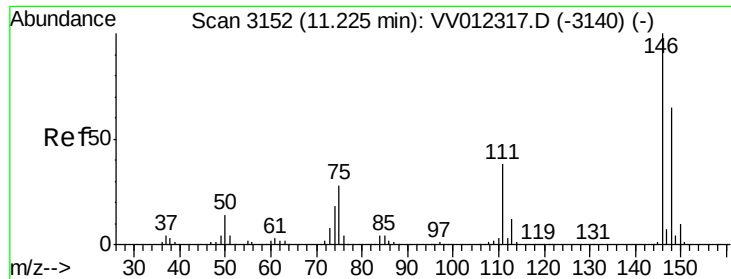
Ion 175.00 (174.70 to 175.70): VV012317.D (-2690) (-)

Ion 254.00 (253.70 to 254.70): VV012317.D (-2690) (-)

9.78

Time-->





#62

1,3-Dichlorobenzene

Concen: 8.846 ug/L

RT: 11.23 min Scan# 3152

Delta R.T. 0.00 min

Lab File: VV012316.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD01061

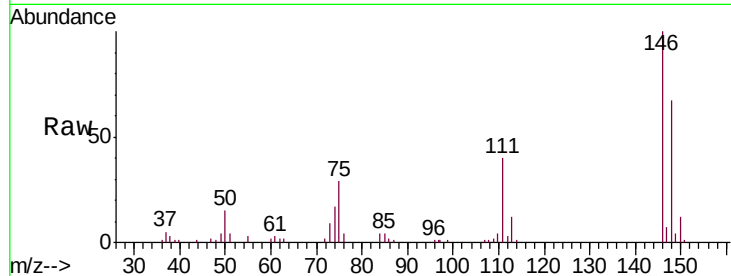
Tgt Ion:146 Resp: 31342

Ion Ratio Lower Upper

146 100

111 39.9 26.7 49.7

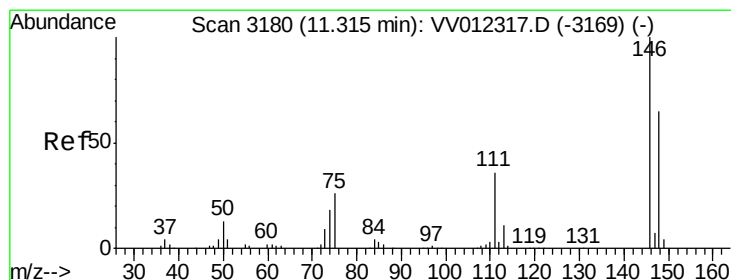
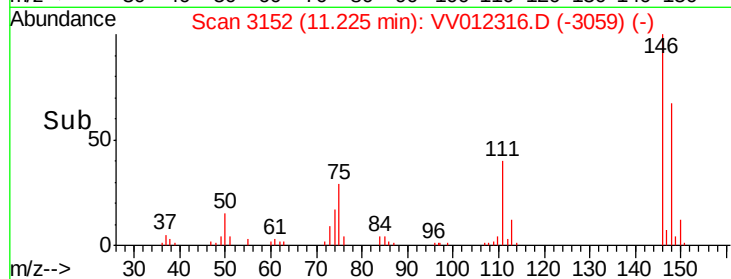
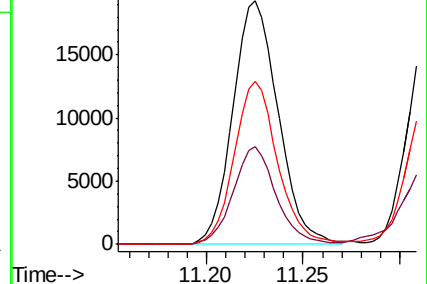
148 67.1 45.8 85.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 8.708 ug/L

RT: 11.32 min Scan# 3181

Delta R.T. 0.00 min

Lab File: VV012316.D

Acq: 21 Aug 2019 16:16

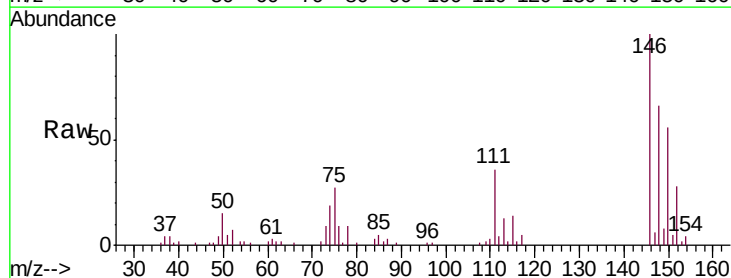
Tgt Ion:146 Resp: 31474

Ion Ratio Lower Upper

146 100

111 36.0 25.8 47.8

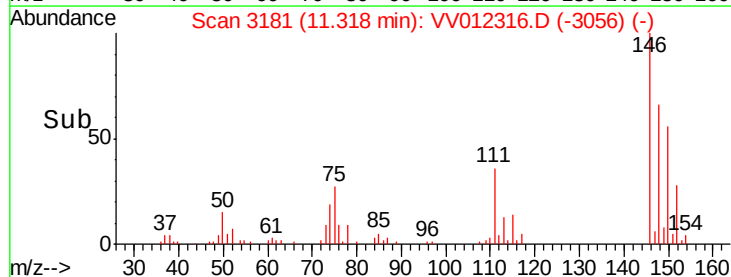
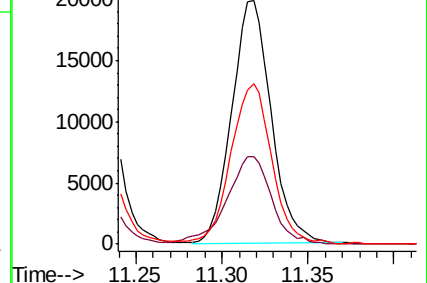
148 65.9 45.4 84.4

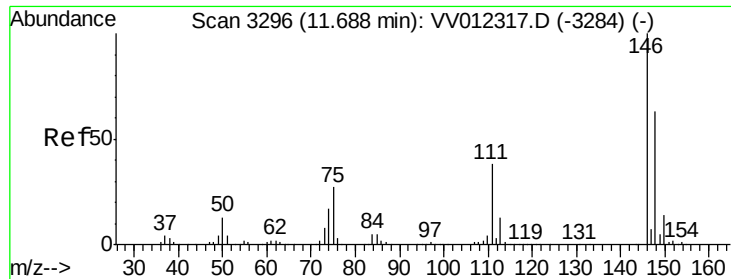


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 9.032 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. 0.00 min

Lab File: VV012316.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD01061

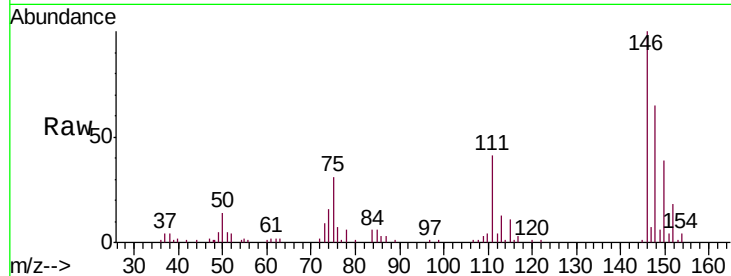
Tgt Ion: 146 Resp: 32207

Ion Ratio Lower Upper

146 100

111 40.9 30.5 45.7

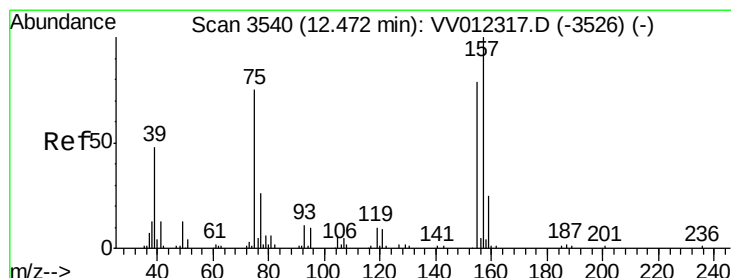
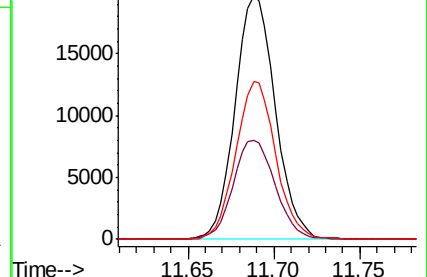
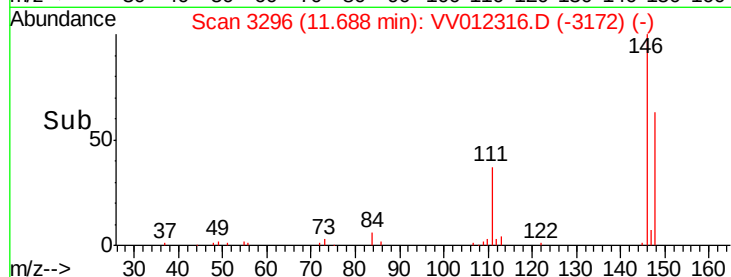
148 64.8 50.4 75.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 7.195 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. 0.00 min

Lab File: VV012316.D

Acq: 21 Aug 2019 16:16

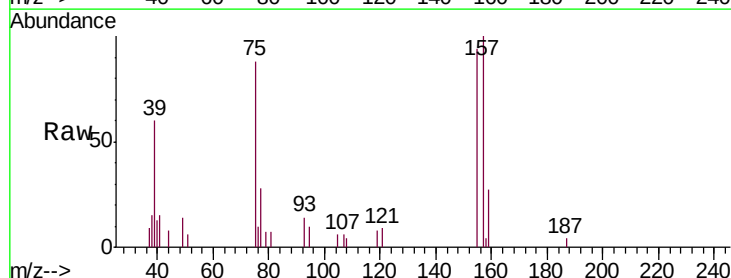
Tgt Ion: 75 Resp: 3933

Ion Ratio Lower Upper

75 100

155 107.3 83.6 125.4

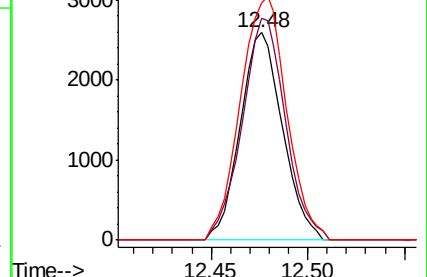
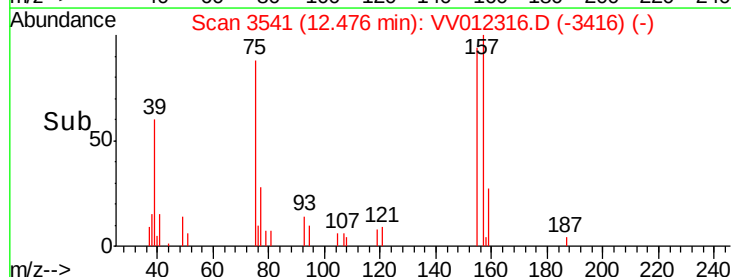
157 114.1 106.1 159.1

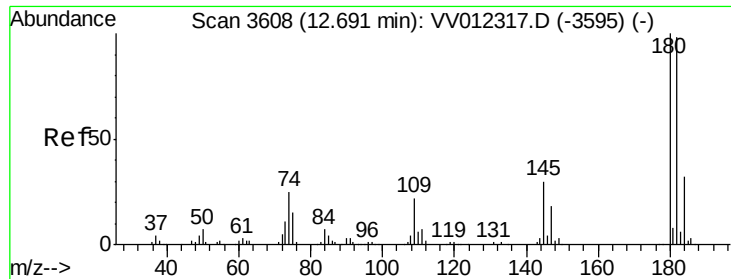


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

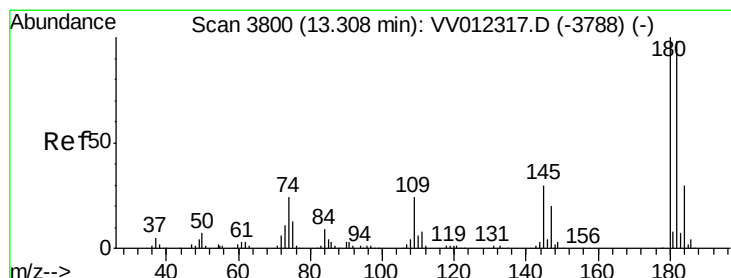
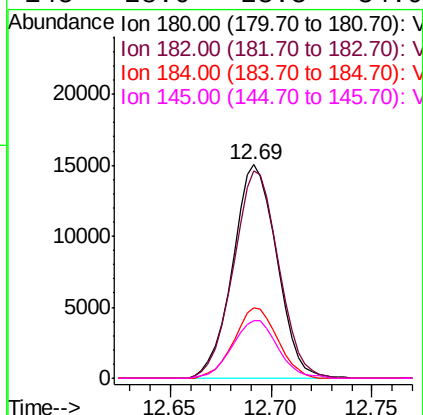
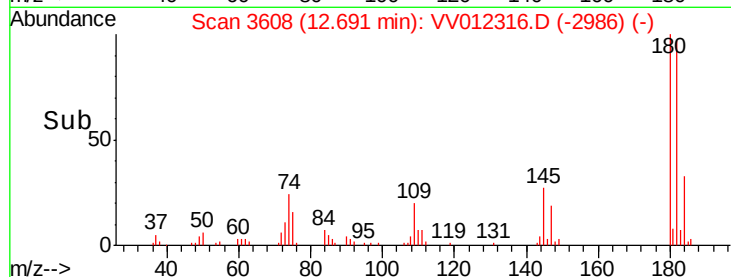
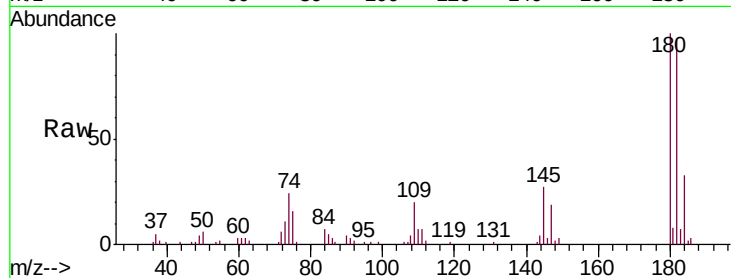




#67
 1,3,5-Trichlorobenzene
 Concen: 8.524 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV012316.D
 Acq: 21 Aug 2019 16:16

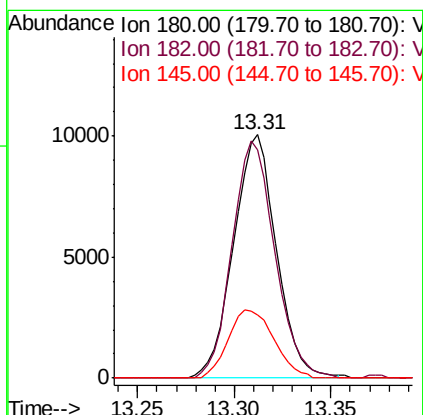
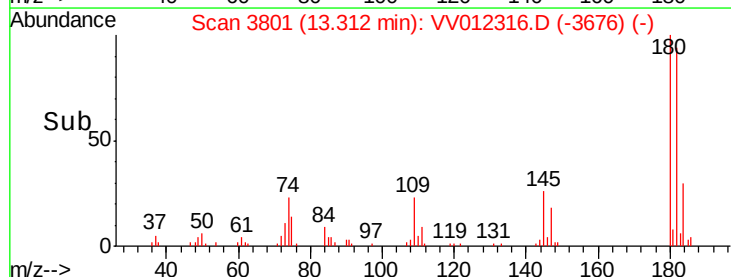
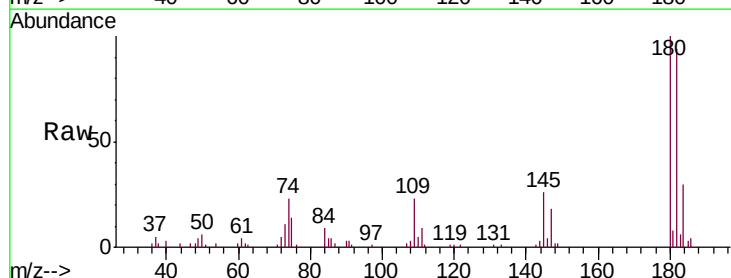
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD01061

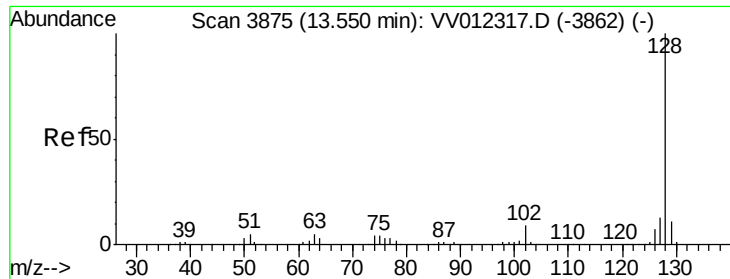
Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.9	77.6	116.4
184	32.5	24.9	37.3
145	28.0	23.3	34.9



#68
 1,2,4-trichlorobenzene
 Concen: 6.938 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV012316.D
 Acq: 21 Aug 2019 16:16

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.2	76.7	115.1
145	29.8	23.4	35.2





#69

Naphthalene

Concen: 6.088 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV012316.D

Acq: 21 Aug 2019 16:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD01061

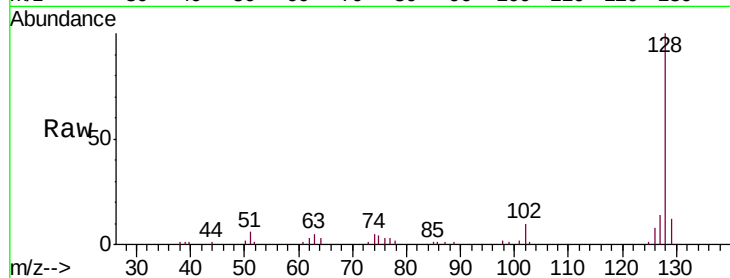
Tgt Ion:128 Resp: 38432

Ion Ratio Lower Upper

128 100

127 13.3 10.2 15.4

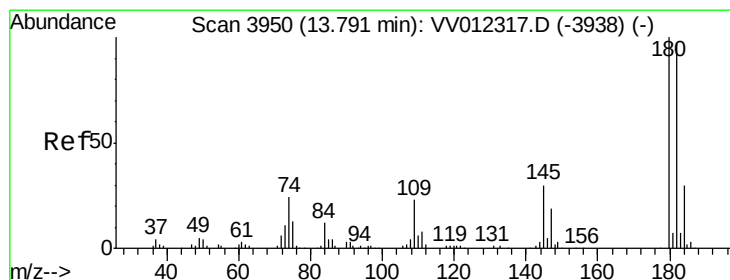
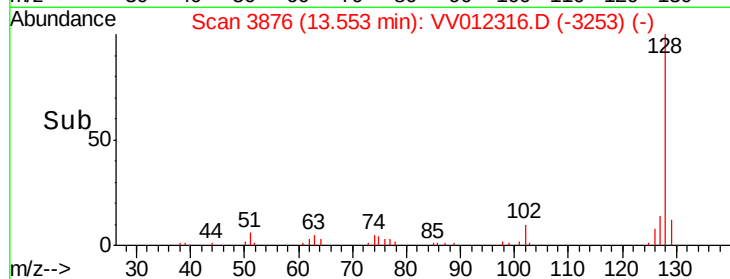
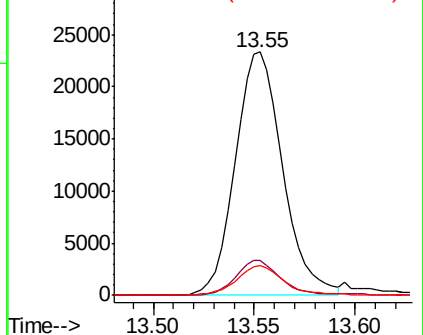
129 12.2 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 7.073 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV012316.D

Acq: 21 Aug 2019 16:16

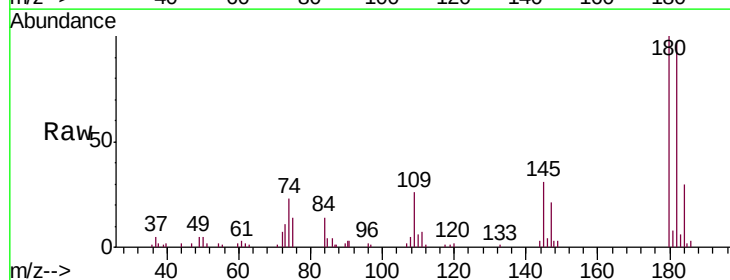
Tgt Ion:180 Resp: 16586

Ion Ratio Lower Upper

180 100

182 98.4 76.5 114.7

145 31.5 24.5 36.7



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

