

Data File : VV012217.D
Acq On : 13 Aug 2019 15:55
Operator : SY/MD
Sample : VSTD01032
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD01032

Quant Time: Aug 14 02:05:15 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR081319WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Aug 14 02:01:27 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	229714	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	222598	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	113641	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	132624	12.83	ug/L	0.00
7) Chloroethane-d5	1.58	69	103206	13.15	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.13	63	218950	10.90	ug/L	0.00
20) 2-Butanone-d5	3.96	46	314647	120.67	ug/L	0.00
24) Chloroform-d	4.40	84	274060	9.76	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	126556	8.86	ug/L	0.00
32) Benzene-d6	5.09	84	553502	10.15	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.12	67	159493	10.82	ug/L	0.00
41) Toluene-d8	7.36	98	519695	9.55	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.66	79	62791	8.67	ug/L	0.00
46) 2-Hexanone-d5	8.14	63	233845	100.62	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.26	84	115294	9.77	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.67	152	182909	8.95	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	219481	10.025 ug/L	98
3) Chloromethane	1.25	50	196454	16.708 ug/L	99
5) Vinyl chloride	1.32	62	200564	15.272 ug/L	99
6) Bromomethane	1.54	94	114891	15.287 ug/L	100
8) Chloroethane	1.60	64	115724	15.678 ug/L	98
9) Trichlorofluoromethane	1.77	101	250508	11.026 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	125866	12.036 ug/L	99
12) 1,1-Dichloroethene	2.14	96	117451	12.212 ug/L	94
13) Acetone	2.23	43	176667	112.532 ug/L	99
14) Carbon disulfide	2.32	76	332866	12.298 ug/L	99
15) Methyl Acetate	2.47	43	39827	11.302 ug/L	99
16) Methylene chloride	2.53	84	109380	10.601 ug/L	97
17) Methyl tert-butyl Ether	2.81	73	316722	9.853 ug/L	99
18) trans-1,2-Dichloroethene	2.78	96	150017	10.653 ug/L	98
19) 1,1-Dichloroethane	3.23	63	280631	11.781 ug/L	99
21) 2-Butanone	4.05	43	412185	144.105 ug/L	100
22) cis-1,2-Dichloroethene	3.96	96	178577	11.420 ug/L	97
23) Bromochloromethane	4.30	128	76248	10.436 ug/L	97
25) Chloroform	4.42	83	314364	10.657 ug/L	98
27) 1,2-Dichloroethane	5.18	62	185121	10.604 ug/L	99
29) 1,1,1-Trichloroethane	4.65	97	274356	9.920 ug/L	99
30) Cyclohexane	4.72	56	281215	13.187 ug/L	99
31) Carbon tetrachloride	4.87	117	247331	9.350 ug/L	99
33) Benzene	5.15	78	690158	12.036 ug/L	100
34) Trichloroethene	5.96	95	175653	10.575 ug/L	96
35) Methylcyclohexane	6.17	83	299320	11.452 ug/L	99
37) 1,2-Dichloropropane	6.22	63	168100	12.970 ug/L	100
38) Bromodichloromethane	6.55	83	216057	10.484 ug/L	98
39) cis-1,3-Dichloropropene	7.07	75	247724	11.207 ug/L	99
40) 4-Methyl-2-pentanone	7.28	43	993943	135.640 ug/L	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.43	91	747586	11.364	ug/L	98
44) trans-1,3-Dichloropropene	7.69	75	192141	11.091	ug/L	99
45) 1,1,2-Trichloroethane	7.88	97	113904	10.917	ug/L	98
47) Tetrachloroethene	8.02	164	151348	9.746	ug/L	97
48) 2-Hexanone	8.19	43	714484	138.569	ug/L	98
49) Dibromochloromethane	8.29	129	144316	9.654	ug/L	95
50) 1,2-Dibromoethane	8.40	107	109249	10.640	ug/L	98
51) Chlorobenzene	8.92	112	461043	10.475	ug/L	99
52) Ethylbenzene	9.05	91	813211	11.084	ug/L	99
53) m,p-xylene	9.18	106	317484	11.067	ug/L	98
54) o-xylene	9.59	106	301117	10.899	ug/L	98
55) Styrene	9.60	104	519462	11.258	ug/L	100
56) Isopropylbenzene	9.97	105	809119	10.666	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.28	83	134399	11.587	ug/L	100
59) 1,2,3-Trichloropropane	10.32	75	98150	11.058	ug/L	100
61) Bromoform	9.78	173	73708	8.583	ug/L	99
62) 1,3-Dichlorobenzene	11.23	146	376514	10.466	ug/L	99
63) 1,4-Dichlorobenzene	11.32	146	370626	10.309	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	348226	10.473	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	20987	10.003	ug/L	93
67) 1,3,5-Trichlorobenzene	12.69	180	288856	9.658	ug/L	100
68) 1,2,4-trichlorobenzene	13.31	180	230235	9.462	ug/L	98
69) Naphthalene	13.55	128	367962	9.481	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	214237	9.205	ug/L	99

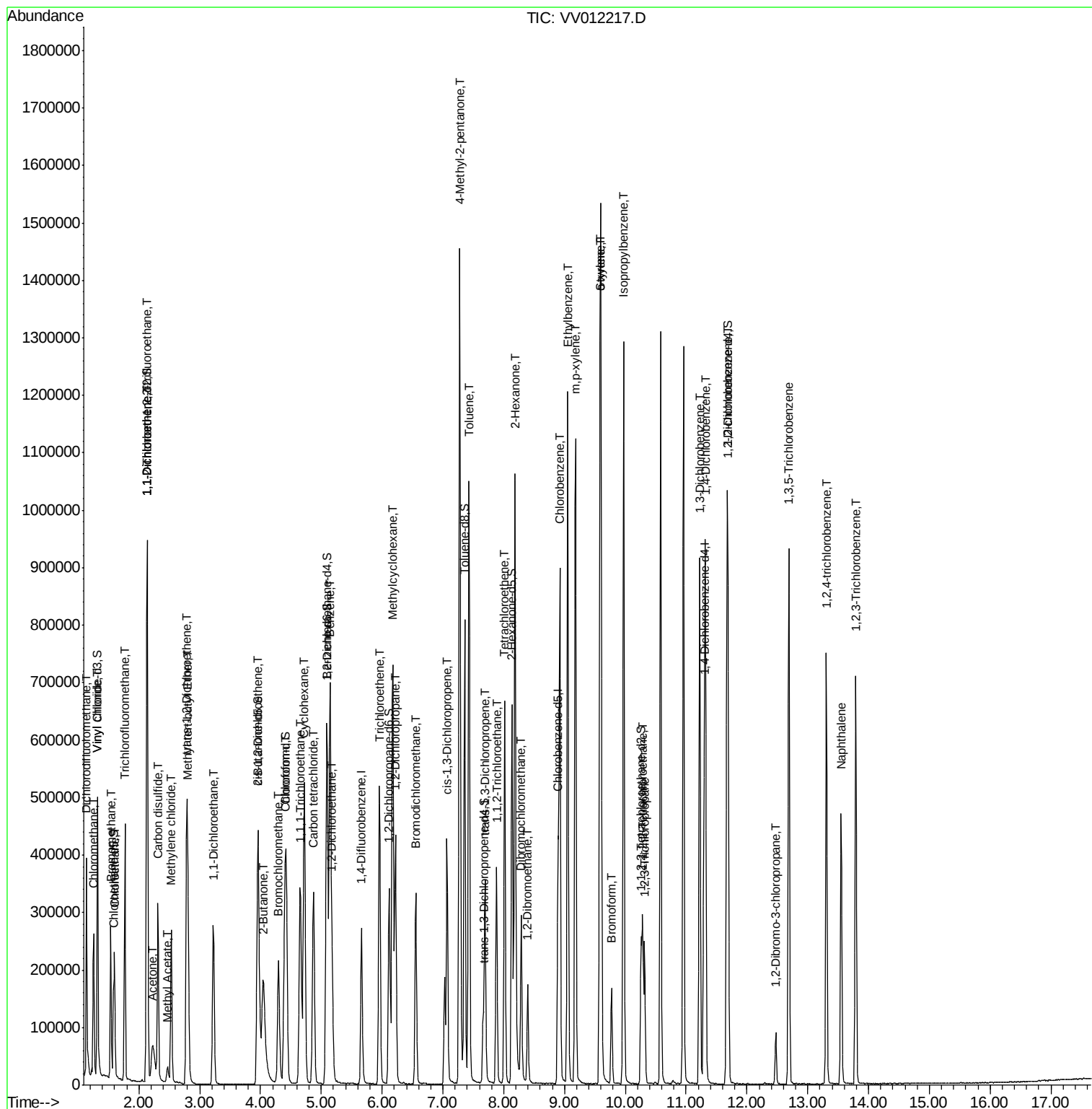
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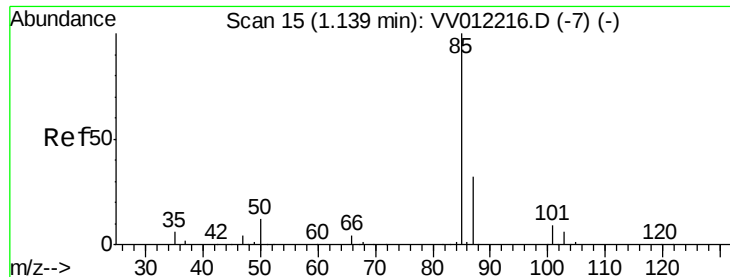
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#2

Dichlorodifluoromethane

Concen: 10.025 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012217.D

Acq: 13 Aug 2019 15:55

Instrument :

MSVOA_V

ClientSampleId :

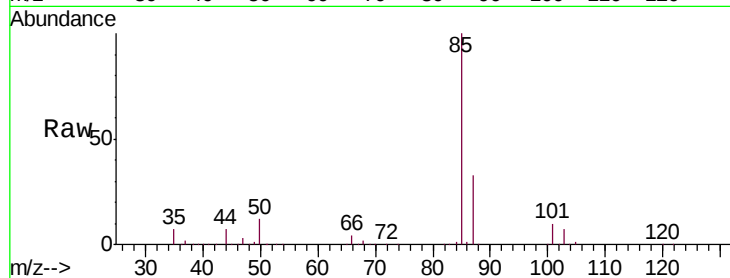
VSTD01032

Tgt Ion: 85 Resp: 219481

Ion Ratio Lower Upper

85 100

87 33.0 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0

1.14

200000

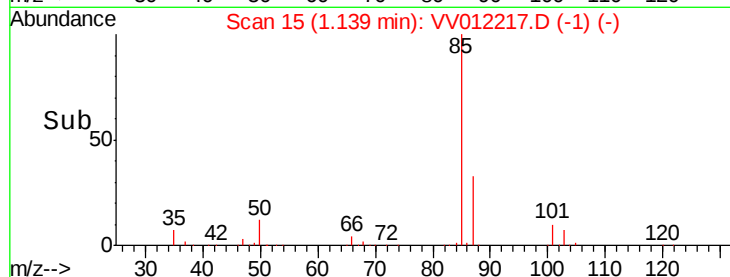
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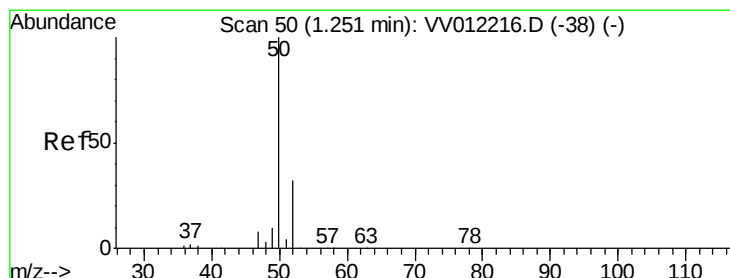
50000

0

Time-->



Time-->



#3

Chloromethane

Concen: 16.708 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV012217.D

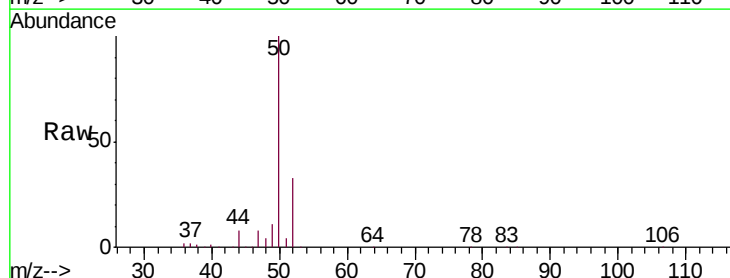
Acq: 13 Aug 2019 15:55

Tgt Ion: 50 Resp: 196454

Ion Ratio Lower Upper

50 100

52 32.8 22.6 42.0



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0

1.25

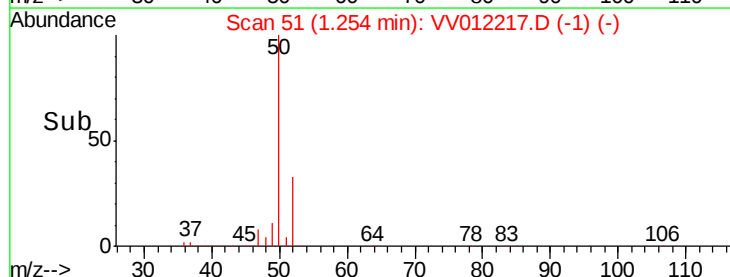
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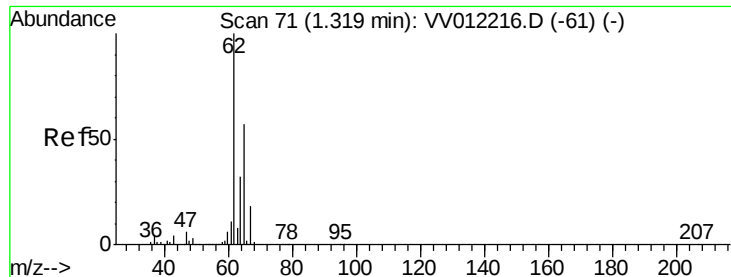
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 15.272 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV012217.D

Acq: 13 Aug 2019 15:55

Instrument :

MSVOA_V

ClientSampleId :

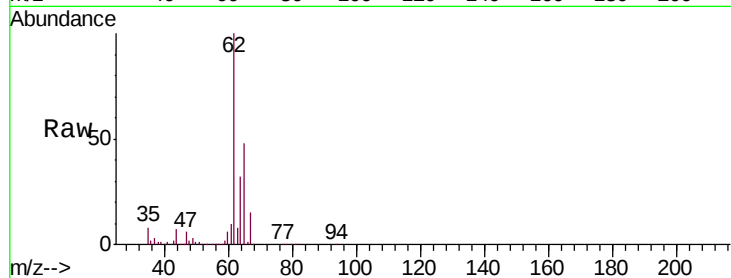
VSTD01032

Tgt Ion: 62 Resp: 200564

Ion Ratio Lower Upper

62 100

64 31.8 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VV012216.D (-61) (-)

Ion 64.10 (63.80 to 64.80): VV012217.D (-1) (-)

1.32

200000

150000

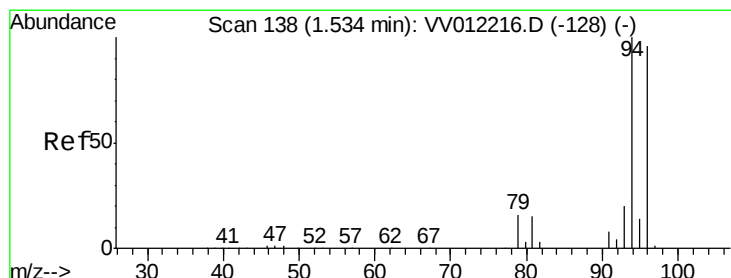
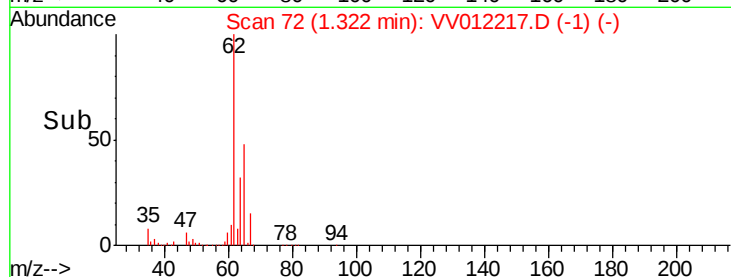
100000

50000

0

1.25 1.30 1.35 1.40

Time-->



#6

Bromomethane

Concen: 15.287 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV012217.D

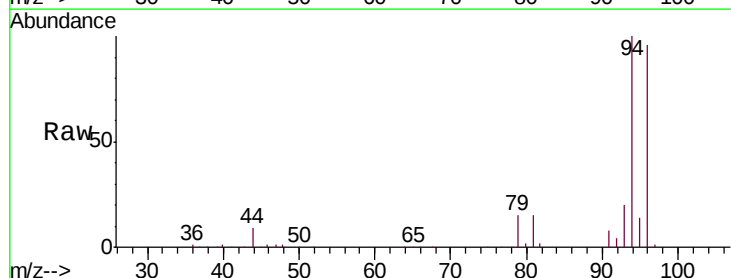
Acq: 13 Aug 2019 15:55

Tgt Ion: 94 Resp: 114891

Ion Ratio Lower Upper

94 100

96 96.5 67.3 125.1



Abundance Ion 94.00 (93.70 to 94.70): VV012216.D (-128) (-)

Ion 96.00 (95.70 to 96.70): VV012217.D (-45) (-)

1.54

100000

80000

60000

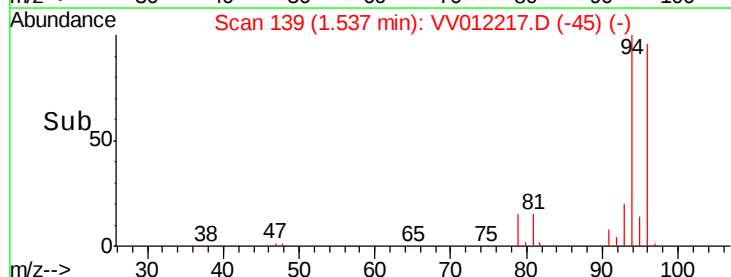
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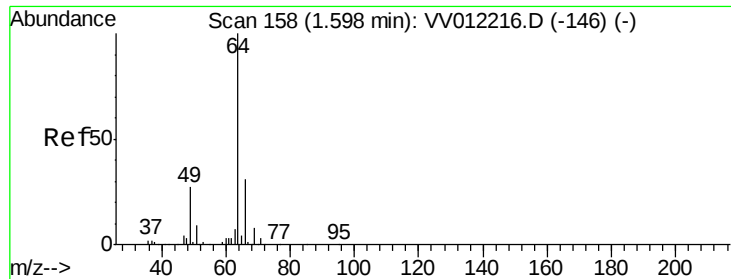
20000

0

1.50 1.55 1.60 1.65

Time-->

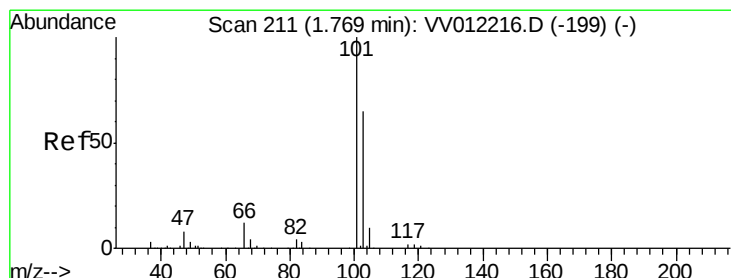
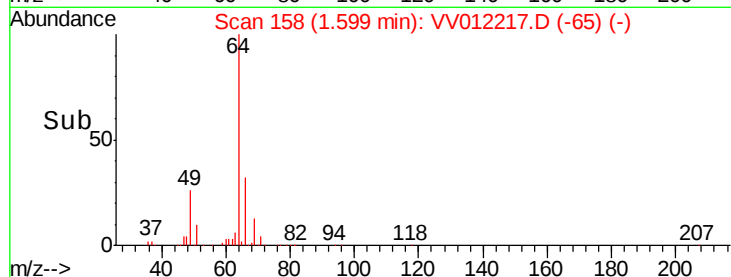
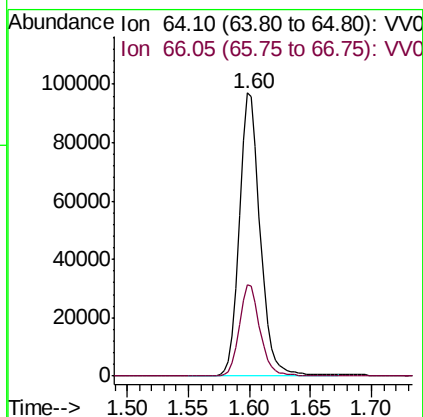
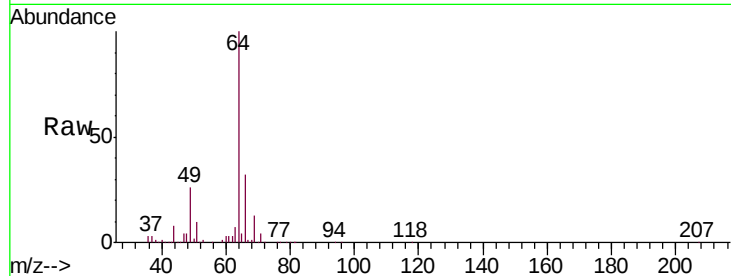




#8
Chloroethane
Concen: 15.678 ug/L
RT: 1.60 min Scan# 158
Delta R.T. 0.00 min
Lab File: VV012217.D
Acq: 13 Aug 2019 15:55

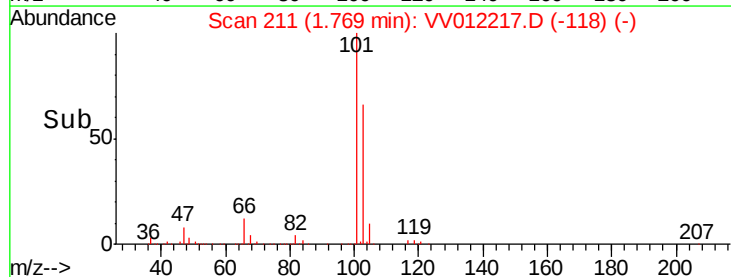
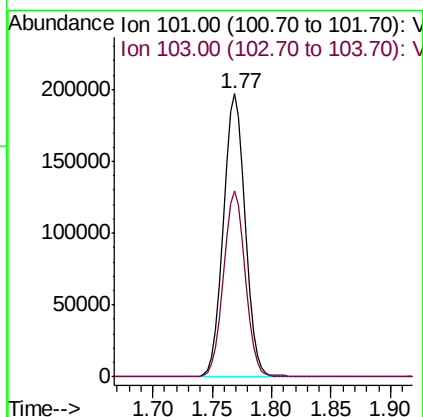
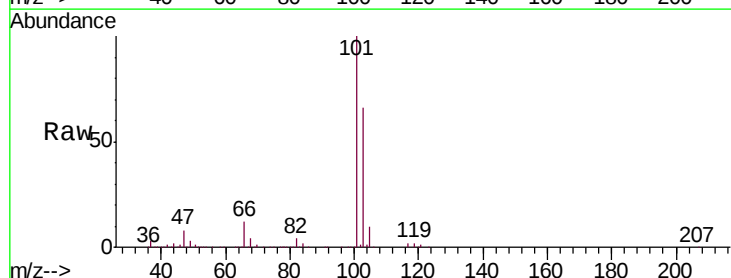
Instrument :
MSVOA_V
ClientSampleId :
VSTD01032

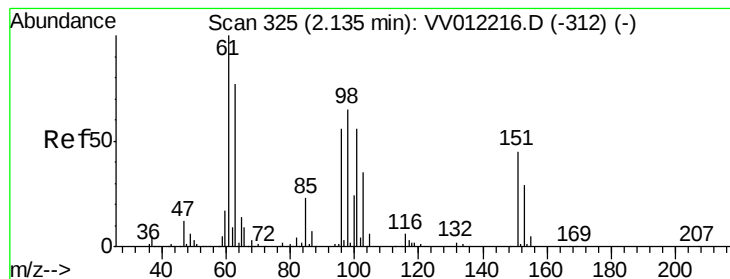
Tgt Ion: 64 Resp: 115724
Ion Ratio Lower Upper
64 100
66 32.3 21.8 40.4



#9
Trichlorofluoromethane
Concen: 11.026 ug/L
RT: 1.77 min Scan# 211
Delta R.T. 0.00 min
Lab File: VV012217.D
Acq: 13 Aug 2019 15:55

Tgt Ion: 101 Resp: 250508
Ion Ratio Lower Upper
101 100
103 65.3 52.0 78.0





#10

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

Concen: 12.036 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012217.D

Acq: 13 Aug 2019 15:55

Instrument :

MSVOA_V

ClientSampleId :

VSTD01032

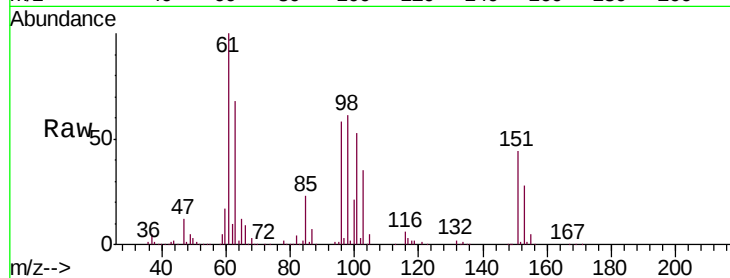
Tgt Ion: 101 Resp: 125866

Ion Ratio Lower Upper

101 100

85 42.4 33.7 50.5

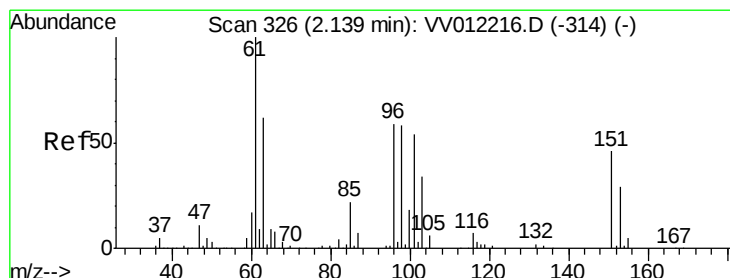
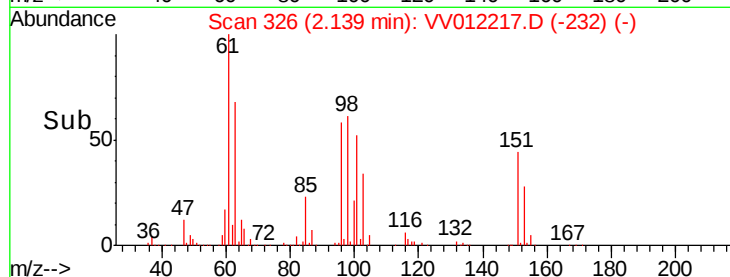
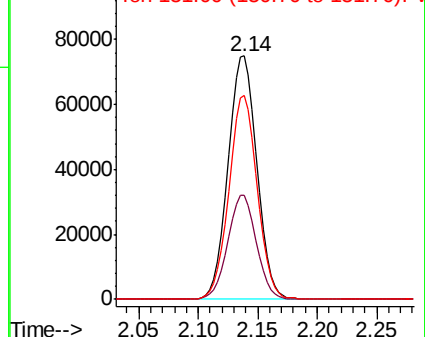
151 82.3 66.3 99.5



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: 12.212 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012217.D

Acq: 13 Aug 2019 15:55

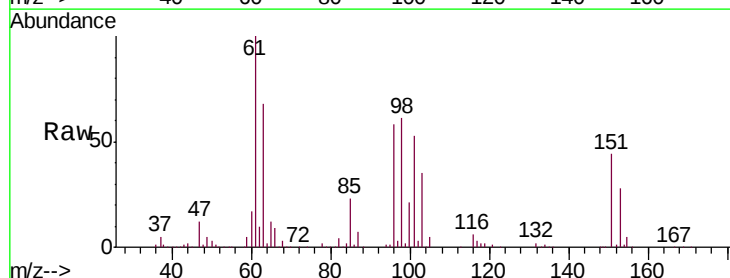
Tgt Ion: 96 Resp: 117451

Ion Ratio Lower Upper

96 100

61 173.8 119.3 221.5

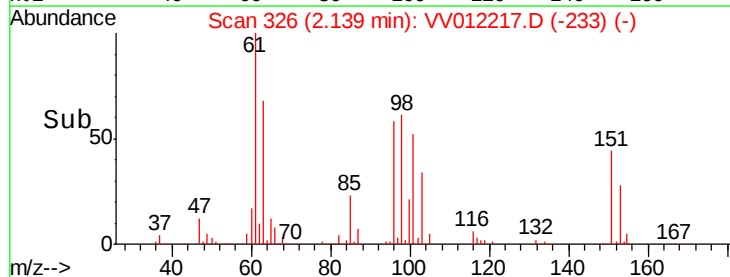
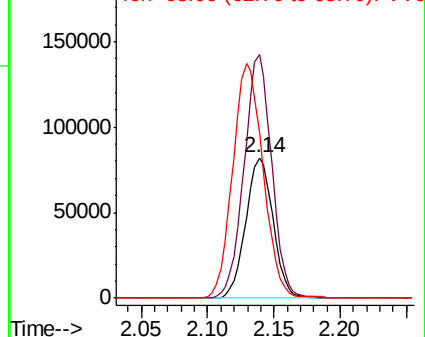
63 117.8 74.9 139.1

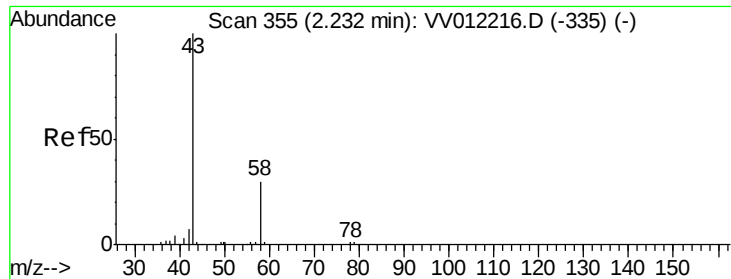


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 112.532 ug/L

RT: 2.23 min Scan# 354

Delta R.T. -0.00 min

Lab File: VV012217.D

Acq: 13 Aug 2019 15:55

Instrument :

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ClientSampleId :

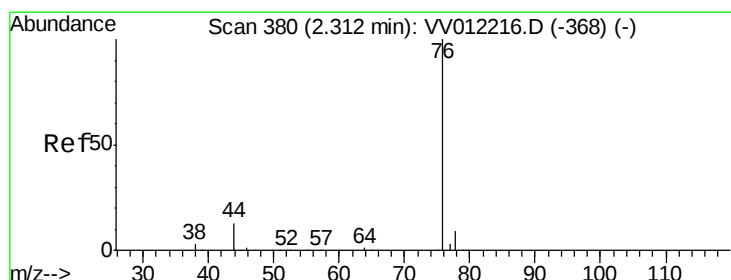
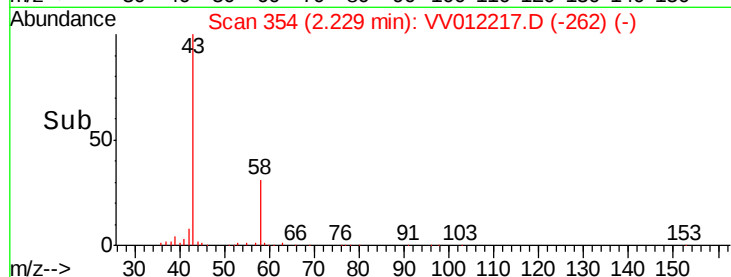
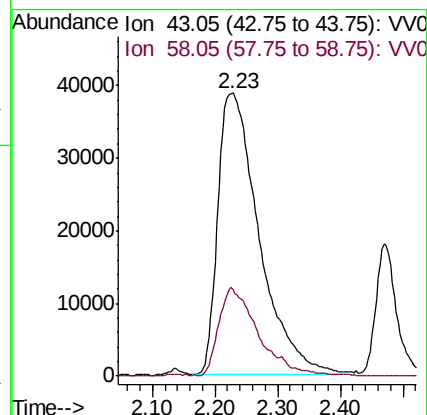
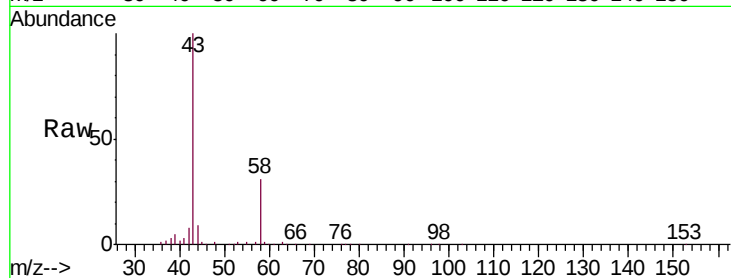
VSTD01032

Tgt Ion: 43 Resp: 176667

Ion Ratio Lower Upper

43 100

58 30.0 0.0 59.4



#14

Carbon disulfide

Concen: 12.298 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV012217.D

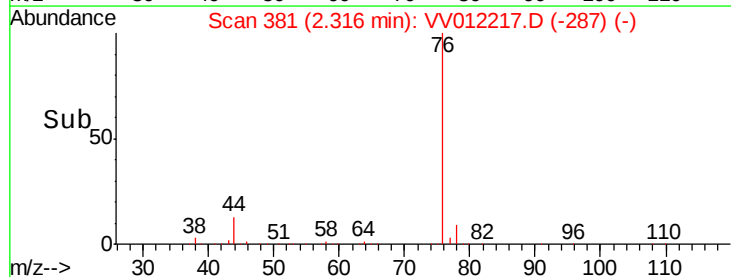
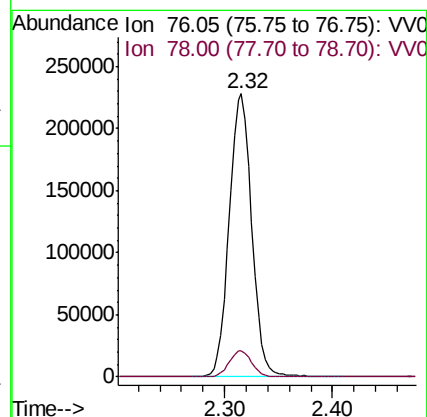
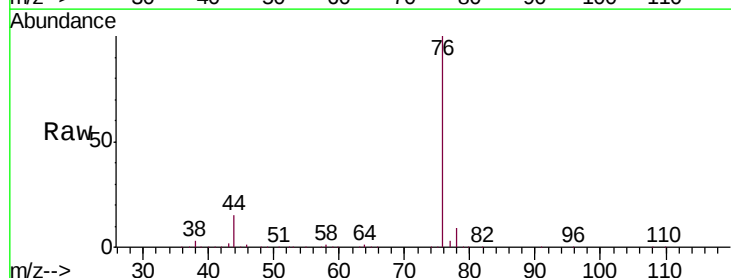
Acq: 13 Aug 2019 15:55

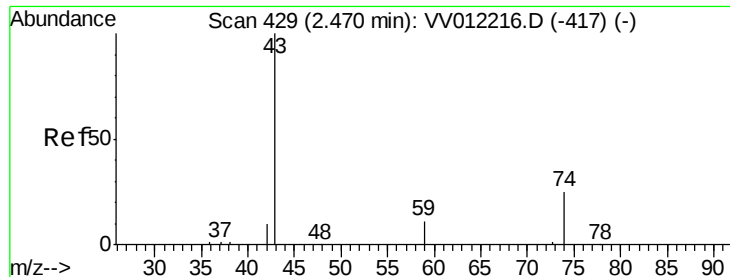
Tgt Ion: 76 Resp: 332866

Ion Ratio Lower Upper

76 100

78 9.3 7.2 10.8

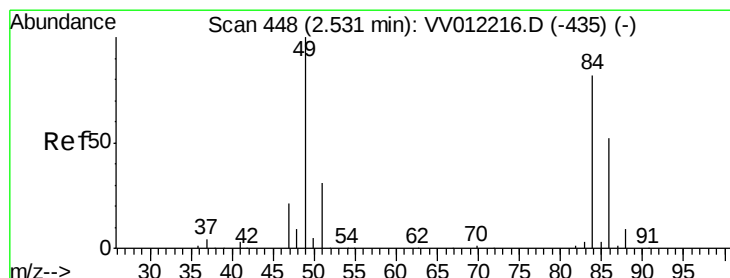
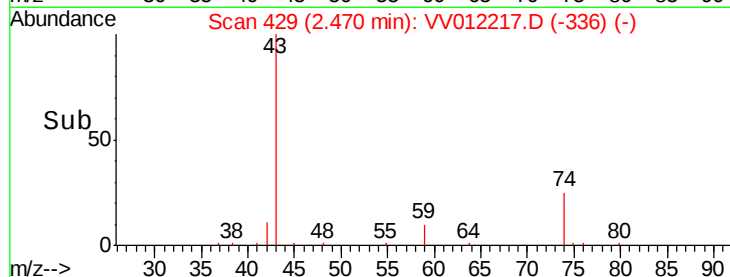
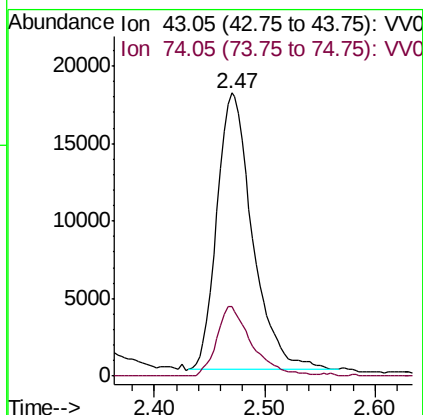
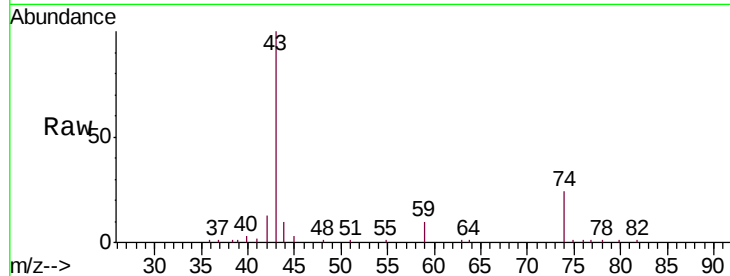




#15
Methyl Acetate
Concen: 11.302 ug/L
RT: 2.47 min Scan# 429
Delta R.T. 0.00 min
Lab File: VV012217.D
Acq: 13 Aug 2019 15:55

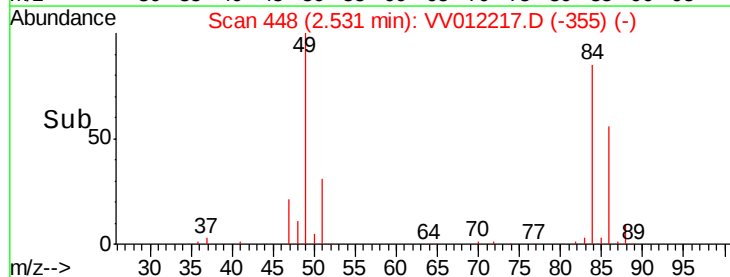
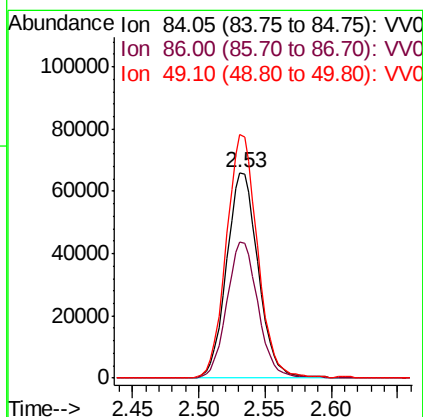
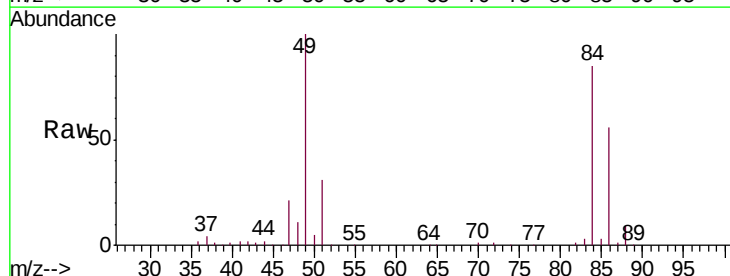
Instrument :
MSVOA_V
ClientSampleId :
VSTD01032

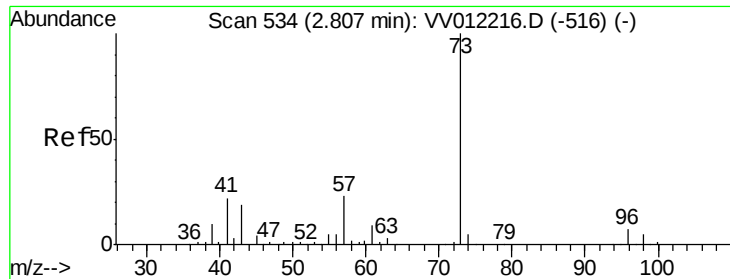
Tgt Ion: 43 Resp: 39827
Ion Ratio Lower Upper
43 100
74 24.9 20.3 30.5



#16
Methylene chloride
Concen: 10.601 ug/L
RT: 2.53 min Scan# 448
Delta R.T. 0.00 min
Lab File: VV012217.D
Acq: 13 Aug 2019 15:55

Tgt Ion: 84 Resp: 109380
Ion Ratio Lower Upper
84 100
86 66.1 44.4 82.5
49 118.3 85.1 158.1

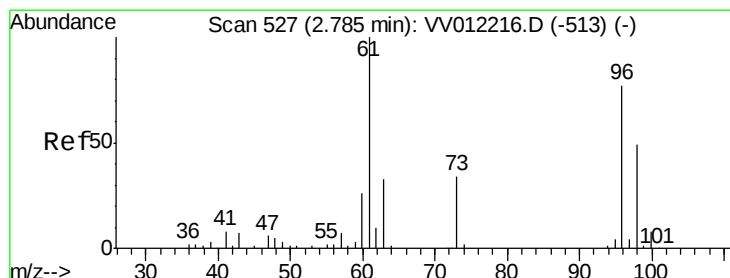
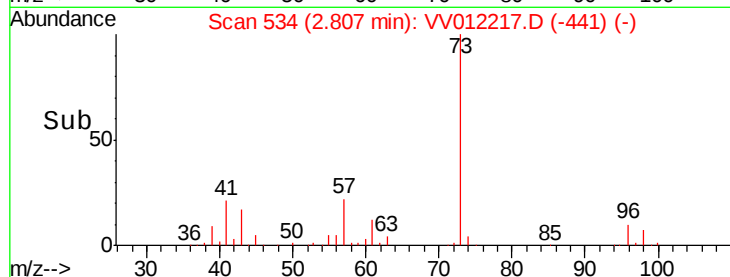
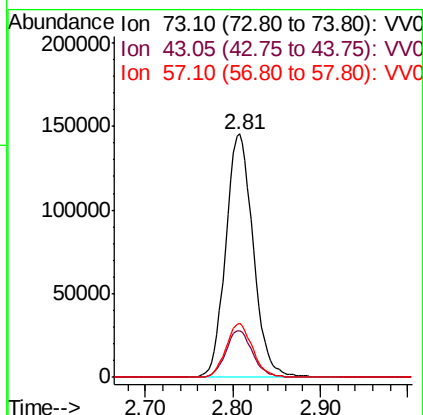
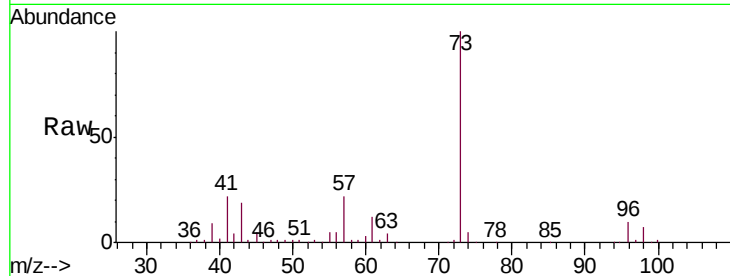




#17
Methyl tert-butyl Ether
Concen: 9.853 ug/L
RT: 2.81 min Scan# 534
Delta R.T. 0.00 min
Lab File: VV012217.D
Acq: 13 Aug 2019 15:55

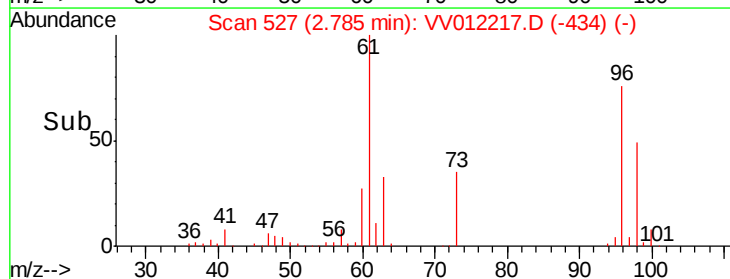
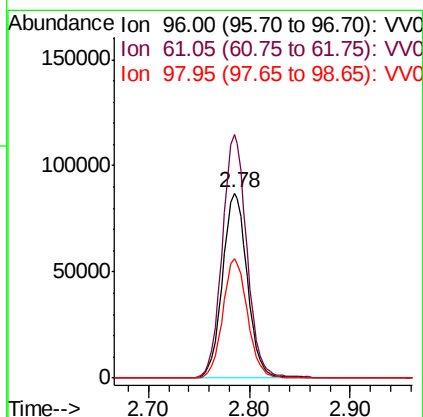
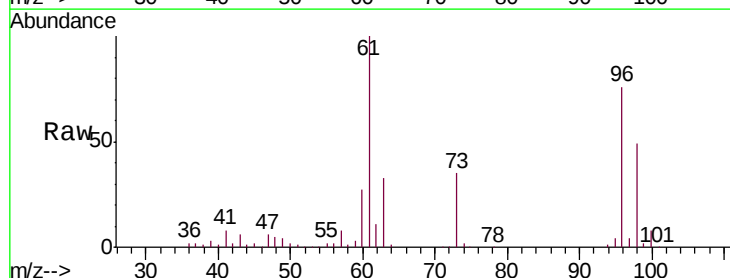
Instrument :
MSVOA_V
ClientSampleId :
VSTD01032

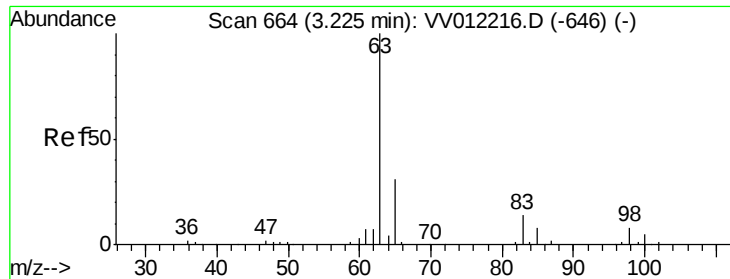
Tgt Ion: 73 Resp: 316722
Ion Ratio Lower Upper
73 100
43 18.8 15.4 23.0
57 21.6 17.8 26.6



#18
trans-1,2-Dichloroethene
Concen: 10.653 ug/L
RT: 2.78 min Scan# 527
Delta R.T. 0.00 min
Lab File: VV012217.D
Acq: 13 Aug 2019 15:55

Tgt Ion: 96 Resp: 150017
Ion Ratio Lower Upper
96 100
61 131.8 90.8 168.6
98 64.3 44.4 82.4

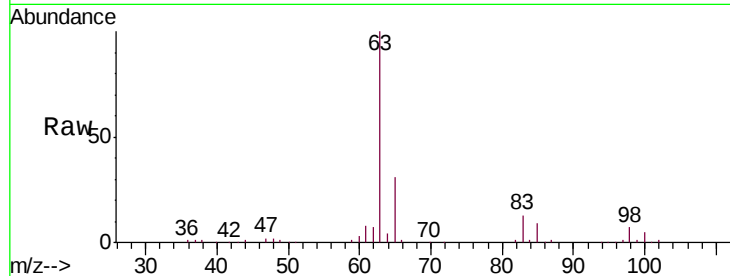




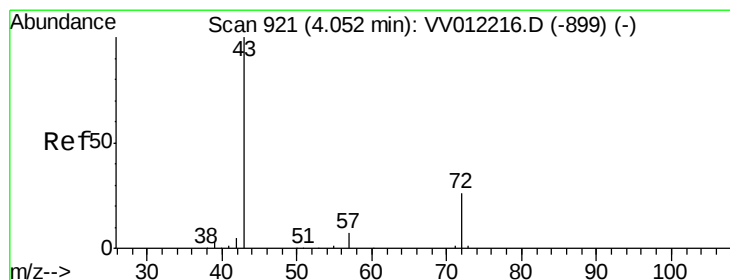
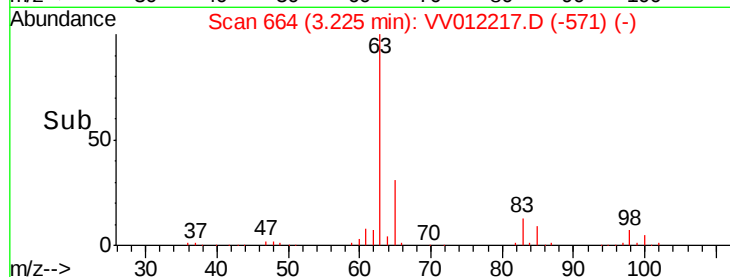
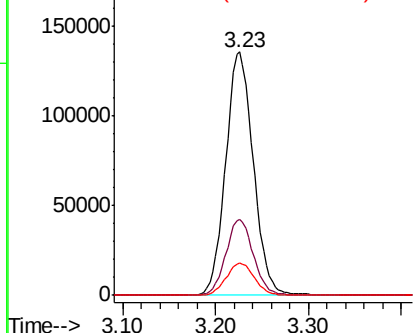
#19
 1,1-Dichloroethane
 Concen: 11.781 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. 0.00 min
 Lab File: VV012217.D
 Acq: 13 Aug 2019 15:55

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD01032

Tgt Ion: 63 Resp: 280631
 Ion Ratio Lower Upper
 63 100
 65 31.1 21.7 40.3
 83 13.2 10.1 18.9

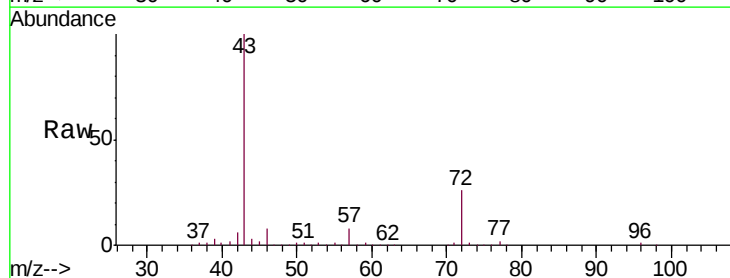


Abundance Ion 63.10 (62.80 to 63.80): VV0
 Ion 65.10 (64.80 to 65.80): VV0
 Ion 83.05 (82.75 to 83.75): VV0

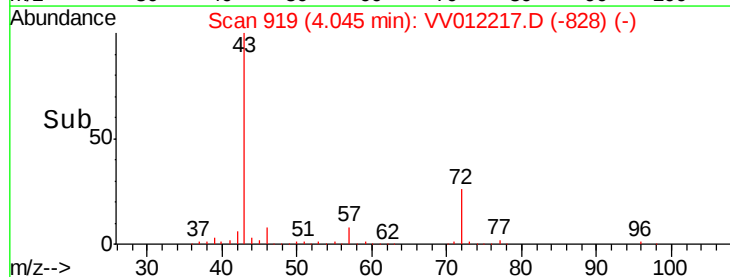
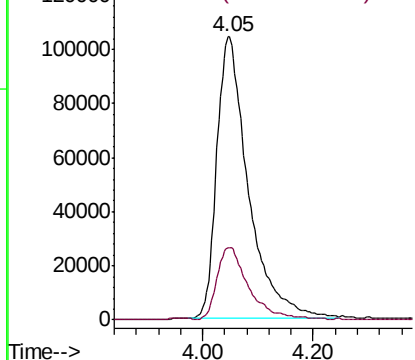


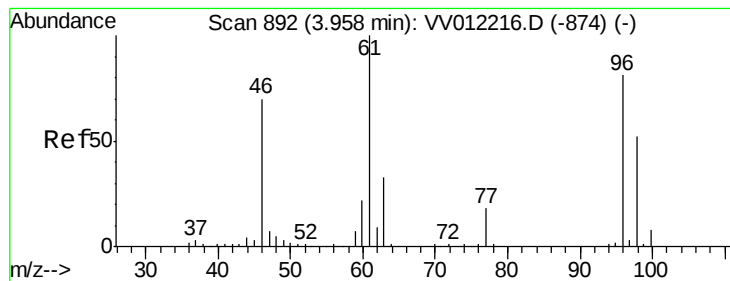
#21
 2-Butanone
 Concen: 144.105 ug/L
 RT: 4.05 min Scan# 919
 Delta R.T. -0.01 min
 Lab File: VV012217.D
 Acq: 13 Aug 2019 15:55

Tgt Ion: 43 Resp: 412185
 Ion Ratio Lower Upper
 43 100
 72 25.8 12.9 38.7



Abundance Ion 43.05 (42.75 to 43.75): VV0
 Ion 72.10 (71.80 to 72.80): VV0



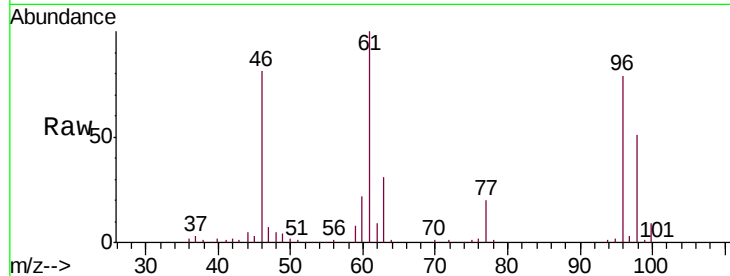


#22

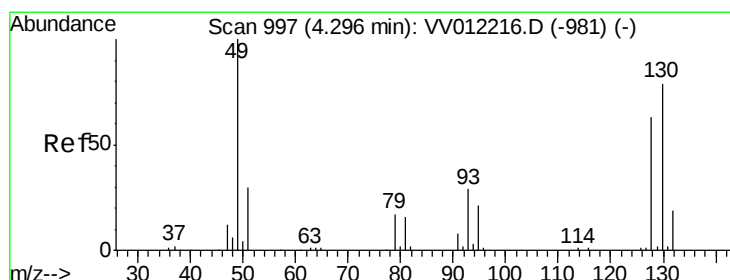
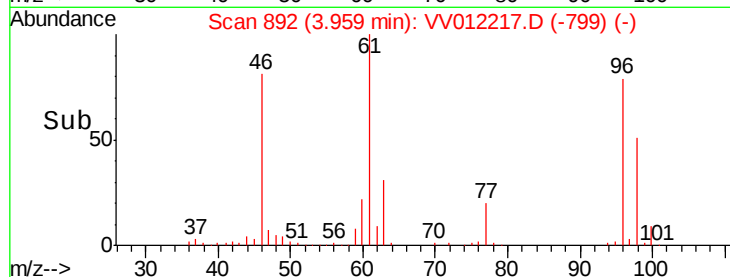
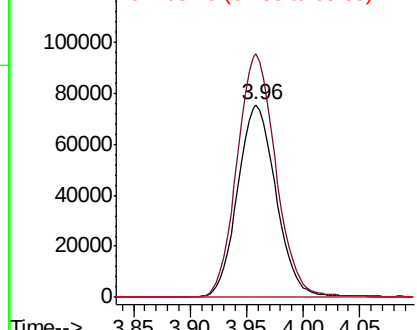
cis-1,2-Dichloroethene
Concen: 11.420 ug/L
RT: 3.96 min Scan# 892
Delta R.T. 0.00 min
Lab File: VV012217.D
Acq: 13 Aug 2019 15:55

Instrument :
MSVOA_V
ClientSampleId :
VSTD01032

Tgt Ion: 96 Resp: 178577
Ion Ratio Lower Upper
96 100
61 126.4 86.0 159.6
68 0.0 0.0 0.0



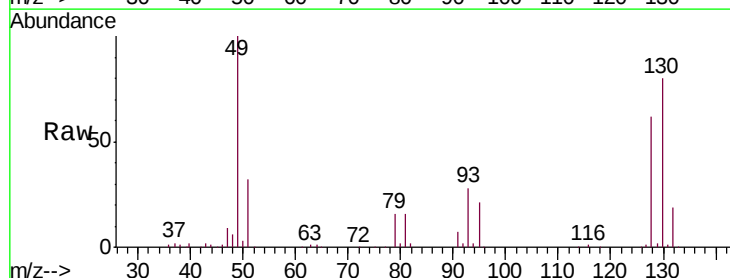
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0



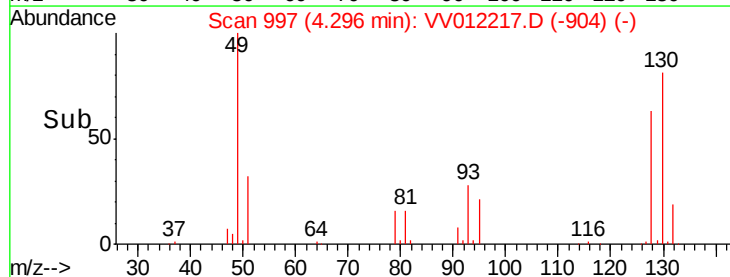
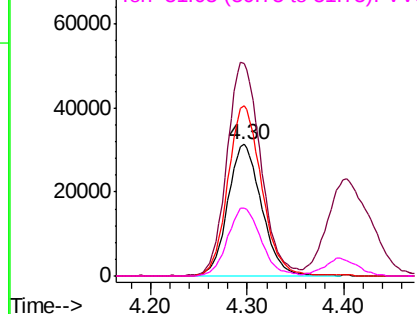
#23

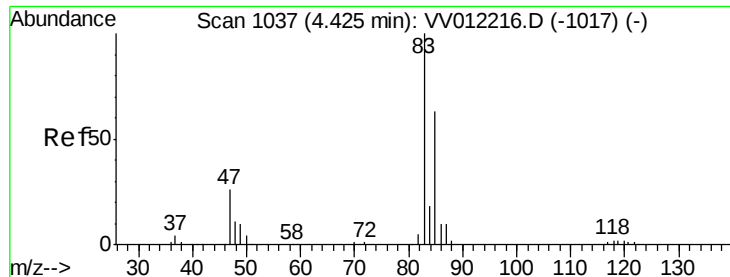
Bromochloromethane
Concen: 10.436 ug/L
RT: 4.30 min Scan# 997
Delta R.T. 0.00 min
Lab File: VV012217.D
Acq: 13 Aug 2019 15:55

Tgt Ion: 128 Resp: 76248
Ion Ratio Lower Upper
128 100
49 161.5 111.5 207.1
130 129.4 87.4 162.4
51 51.7 38.2 57.2



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

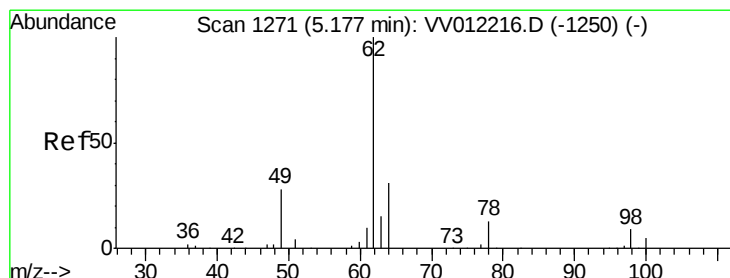
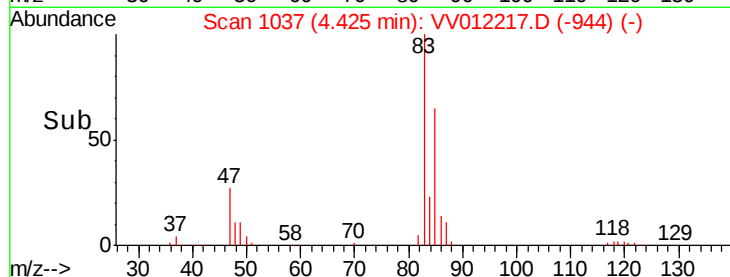
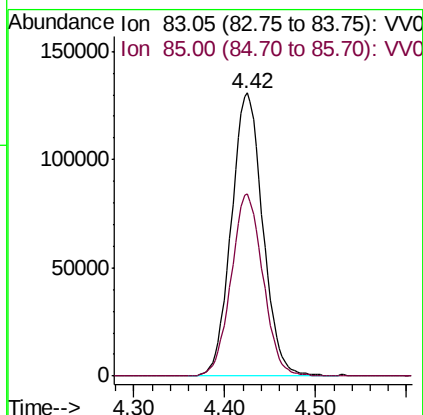
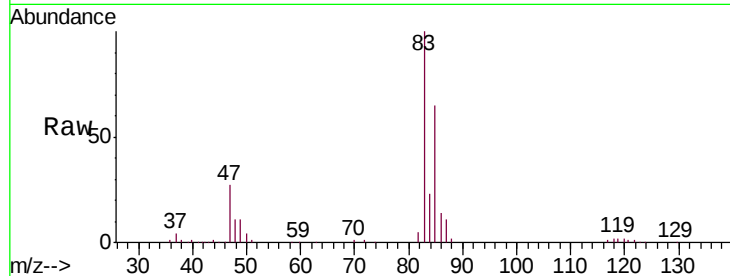




#25
Chloroform
Concen: 10.657 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV012217.D
Acq: 13 Aug 2019 15:55

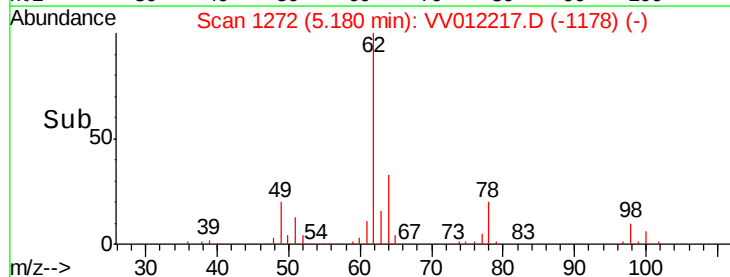
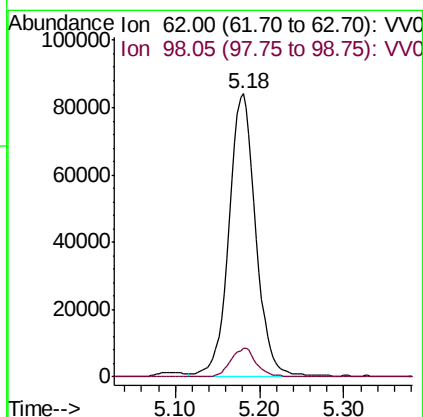
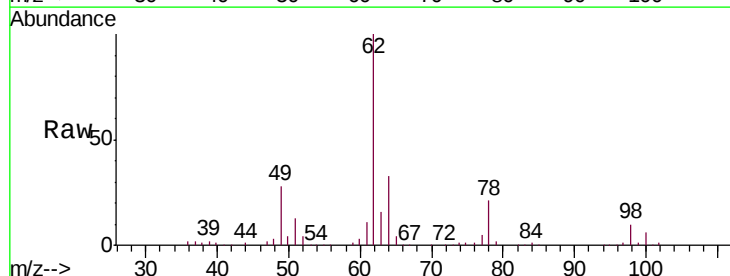
Instrument :
MSVOA_V
ClientSampled :
VSTD01032

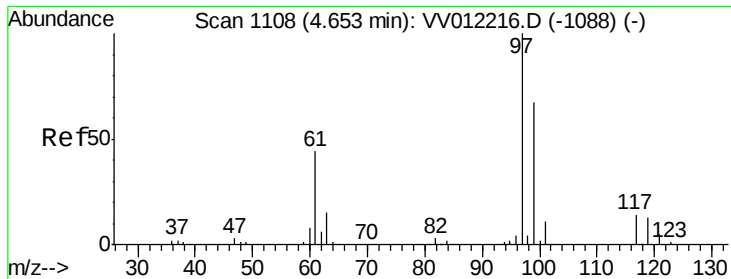
Tgt Ion: 83 Resp: 314364
Ion Ratio Lower Upper
83 100
85 64.5 44.3 82.3



#27
1,2-Dichloroethane
Concen: 10.604 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VV012217.D
Acq: 13 Aug 2019 15:55

Tgt Ion: 62 Resp: 185121
Ion Ratio Lower Upper
62 100
98 9.9 7.5 11.3

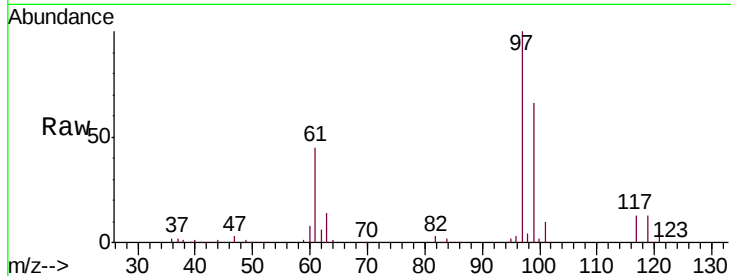




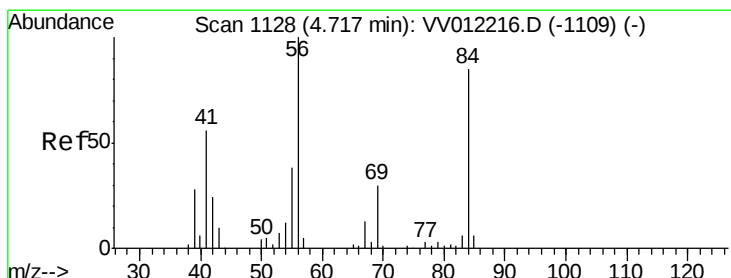
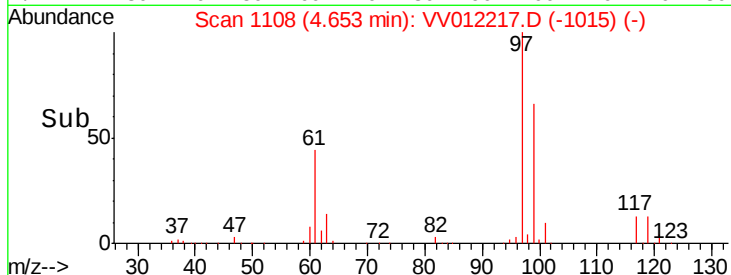
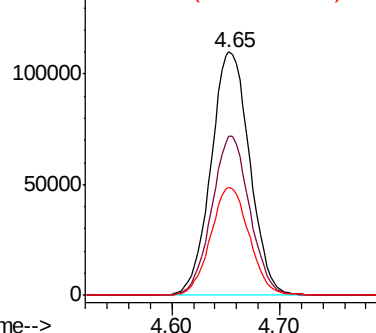
#29
 1,1,1-Trichloroethane
 Concen: 9.920 ug/L
 RT: 4.65 min Scan# 1108
 Delta R.T. 0.00 min
 Lab File: VV012217.D
 Acq: 13 Aug 2019 15:55

Instrument :
 MSVOA_V
 ClientSampled :
 VSTD01032

Tgt Ion: 97 Resp: 274356
 Ion Ratio Lower Upper
 97 100
 99 64.3 52.1 78.1
 61 44.2 35.4 53.0

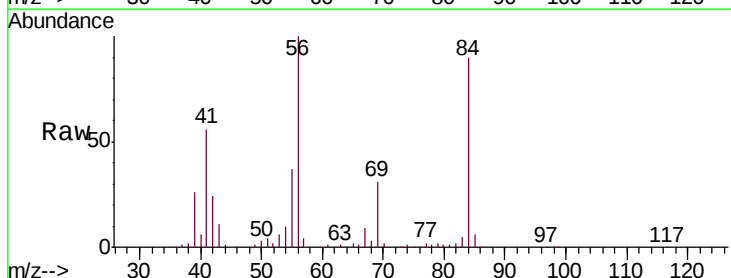


Abundance Ion 96.95 (96.65 to 97.65): VV0
 150000 Ion 99.05 (98.75 to 99.75): VV0
 Ion 61.05 (60.75 to 61.75): VV0

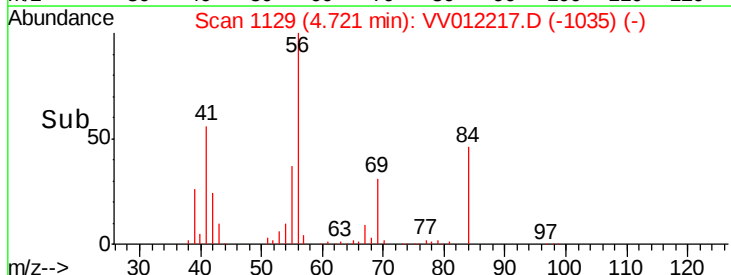
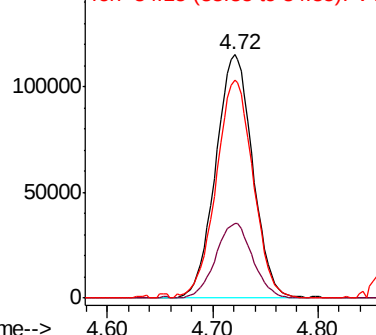


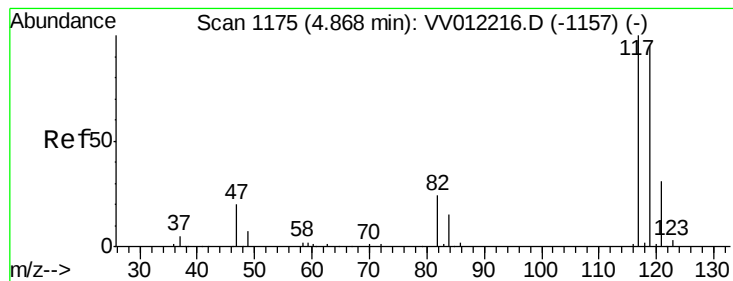
#30
 Cyclohexane
 Concen: 13.187 ug/L
 RT: 4.72 min Scan# 1129
 Delta R.T. 0.00 min
 Lab File: VV012217.D
 Acq: 13 Aug 2019 15:55

Tgt Ion: 56 Resp: 281215
 Ion Ratio Lower Upper
 56 100
 69 30.7 24.6 36.8
 84 89.8 71.0 106.6



Abundance Ion 56.10 (55.80 to 56.80): VV0
 150000 Ion 69.15 (68.85 to 69.85): VV0
 Ion 84.15 (83.85 to 84.85): VV0





#31

Carbon tetrachloride

Concen: 9.350 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VV012217.D

Acq: 13 Aug 2019 15:55

Instrument :

MSVOA_V

ClientSampleId :

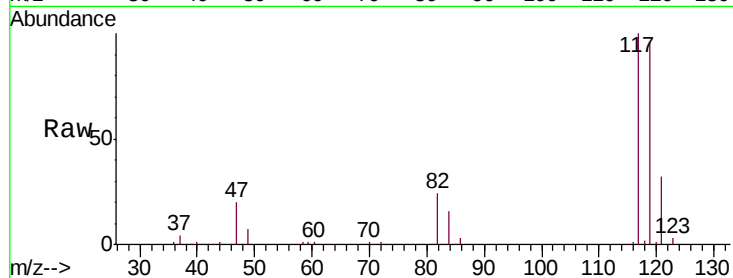
VSTD01032

Tgt Ion:117 Resp: 247331

Ion Ratio Lower Upper

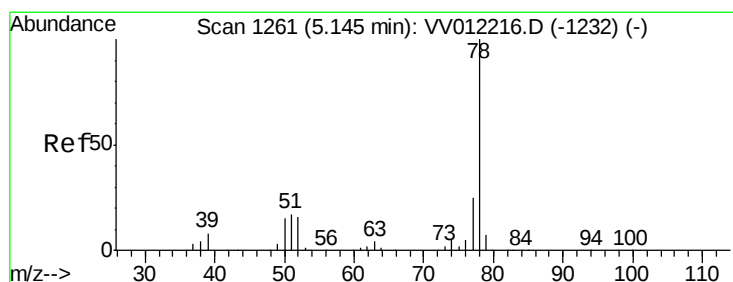
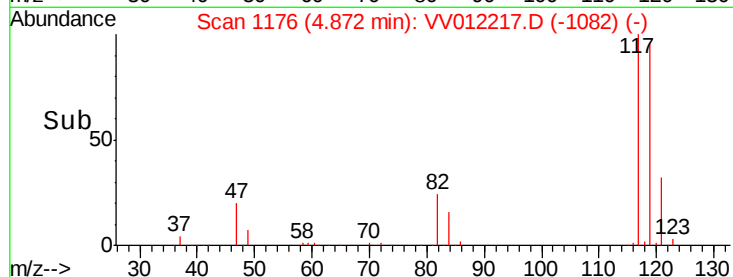
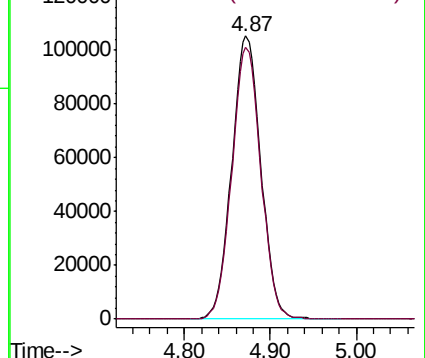
117 100

119 95.9 77.9 116.9



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 12.036 ug/L

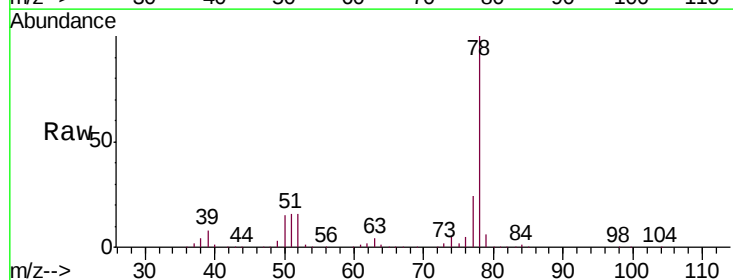
RT: 5.15 min Scan# 1261

Delta R.T. 0.00 min

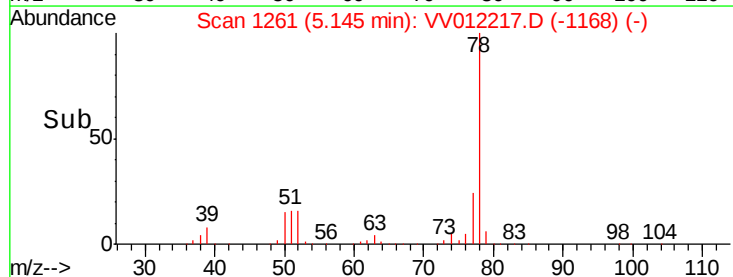
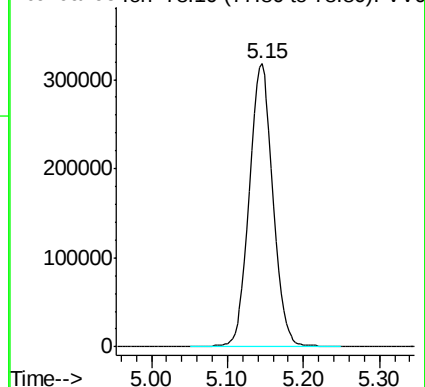
Lab File: VV012217.D

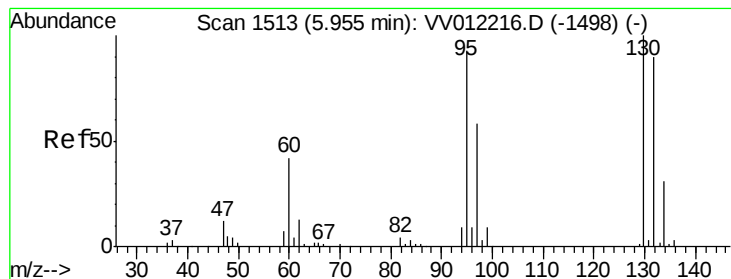
Acq: 13 Aug 2019 15:55

Tgt Ion: 78 Resp: 690158



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 10.575 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV012217.D

Acq: 13 Aug 2019 15:55

Instrument :

MSVOA_V

ClientSampleId :

VSTD01032

Tgt Ion: 95 Resp: 175653

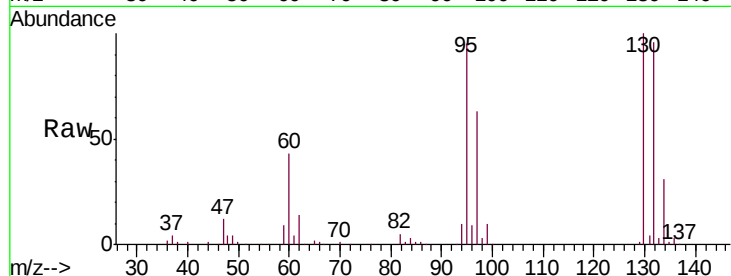
Ion Ratio Lower Upper

95 100

97 66.0 43.3 80.3

132 101.2 67.5 125.3

130 105.3 74.9 139.1

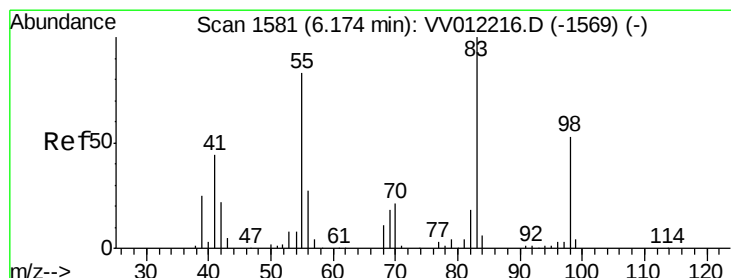
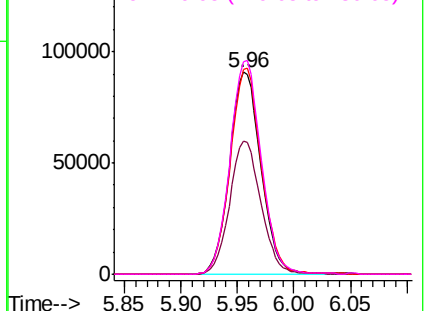
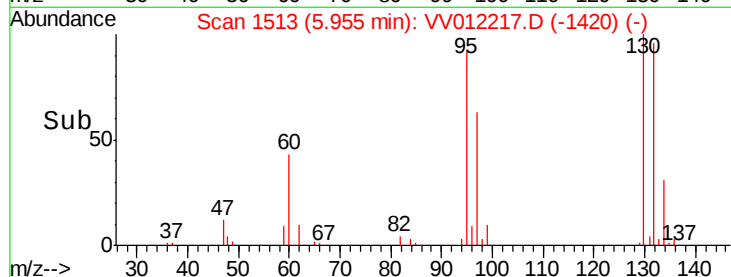


Abundance Ion 95.00 (94.70 to 95.70): VV012217.D (-1420) (-)

Ion 96.95 (96.65 to 97.65): VV012217.D (-1420) (-)

Ion 131.95 (131.65 to 132.65): VV012217.D (-1420) (-)

Ion 129.95 (129.65 to 130.65): VV012217.D (-1420) (-)



#35

Methylcyclohexane

Concen: 11.452 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VV012217.D

Acq: 13 Aug 2019 15:55

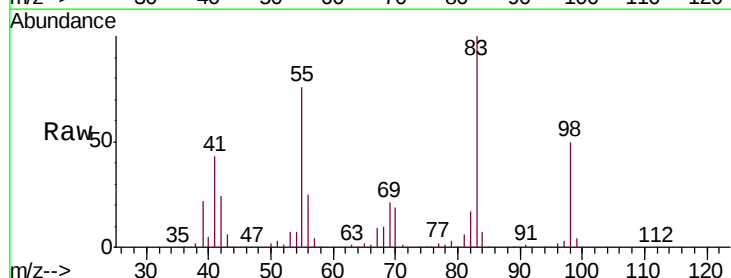
Tgt Ion: 83 Resp: 299320

Ion Ratio Lower Upper

83 100

55 76.2 62.2 93.2

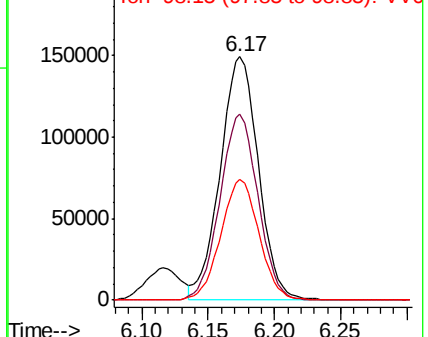
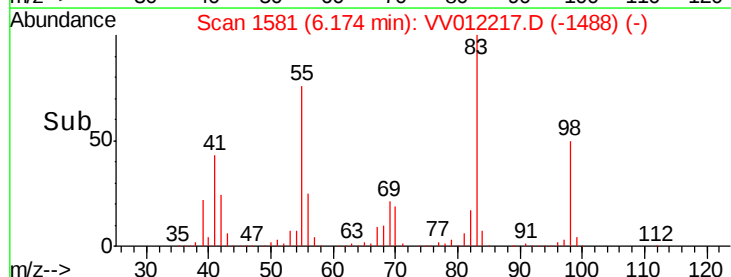
98 49.6 39.2 58.8

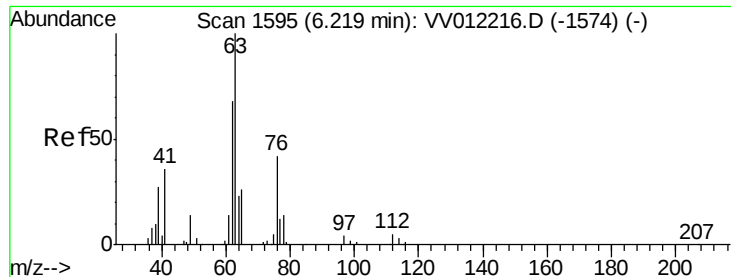


Abundance Ion 83.15 (82.85 to 83.85): VV012217.D (-1488) (-)

Ion 55.10 (54.80 to 55.80): VV012217.D (-1488) (-)

Ion 98.15 (97.85 to 98.85): VV012217.D (-1488) (-)





#37

1,2-Dichloropropane

Concen: 12.970 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VV012217.D

Acq: 13 Aug 2019 15:55

Instrument :

MSVOA_V

ClientSampleId :

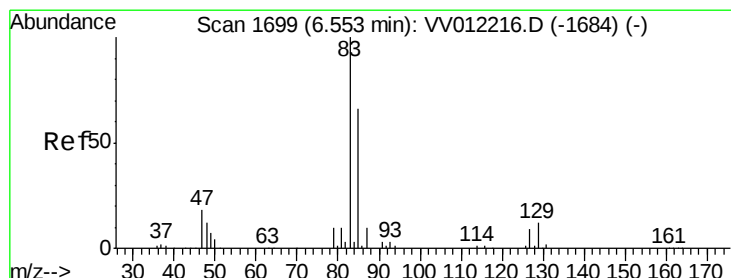
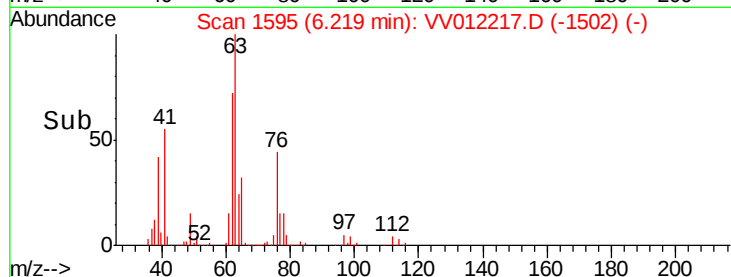
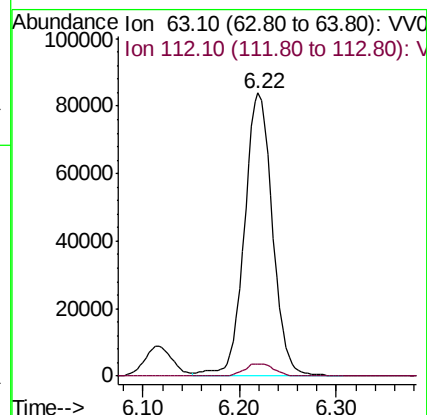
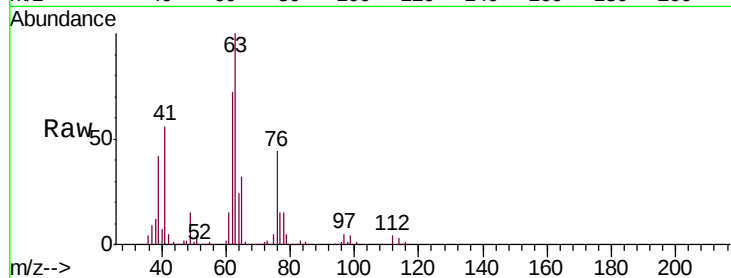
VSTD01032

Tgt Ion: 63 Resp: 168100

Ion Ratio Lower Upper

63 100

112 4.8 3.8 5.8



#38

Bromodichloromethane

Concen: 10.484 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV012217.D

Acq: 13 Aug 2019 15:55

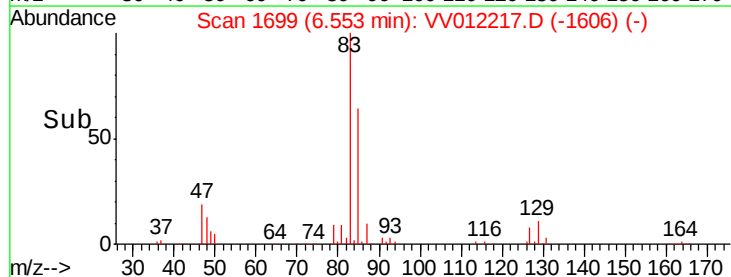
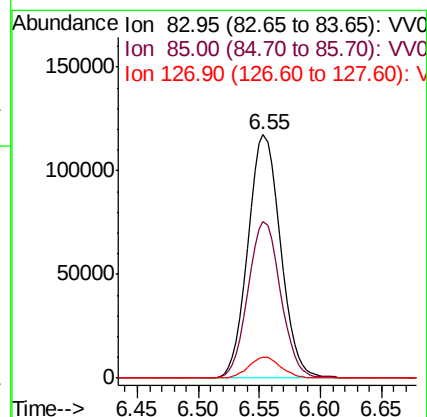
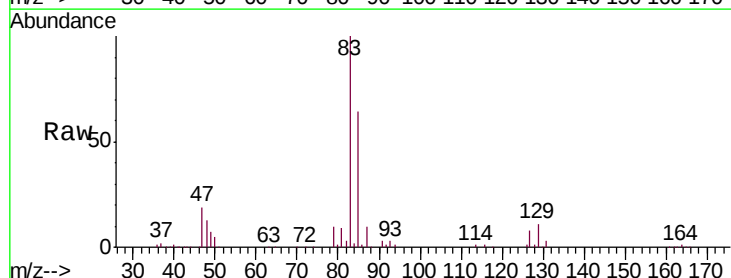
Tgt Ion: 83 Resp: 216057

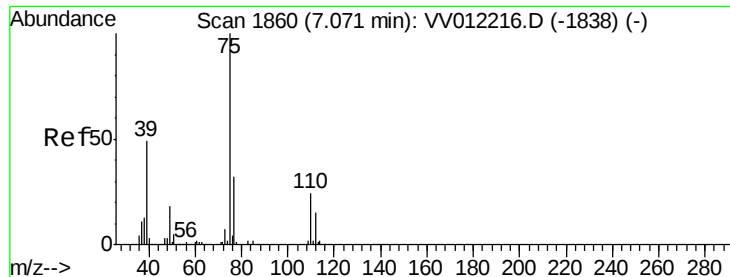
Ion Ratio Lower Upper

83 100

85 64.1 45.9 85.3

127 8.4 7.4 11.2

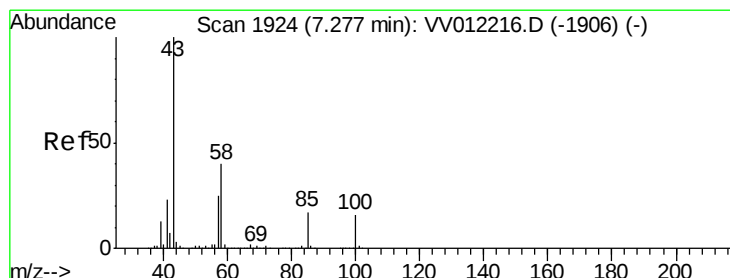
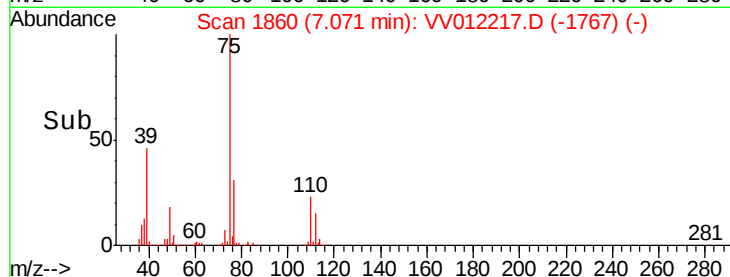
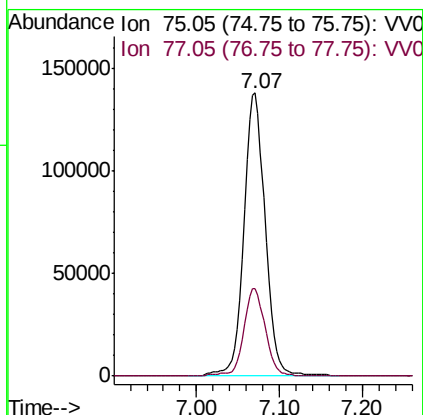
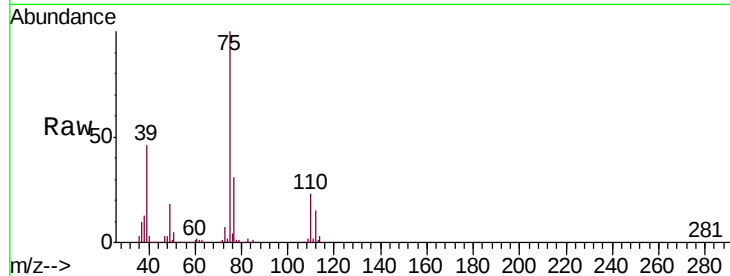




#39
 cis-1,3-Dichloropropene
 Concen: 11.207 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV012217.D
 Acq: 13 Aug 2019 15:55

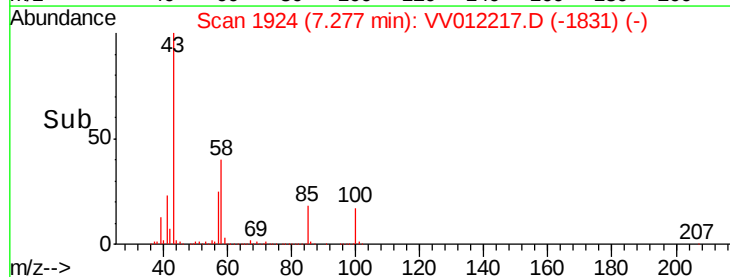
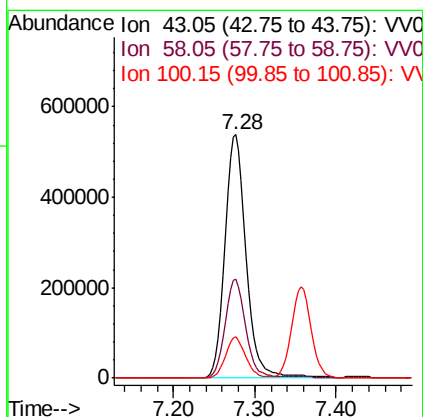
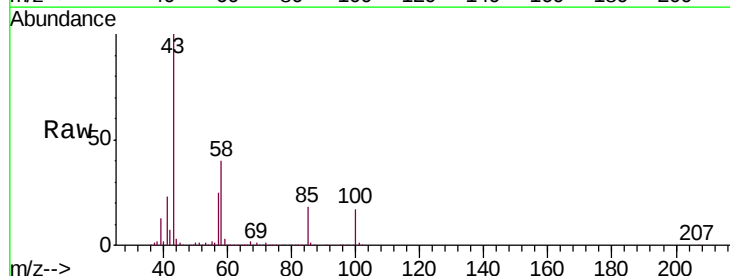
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD01032

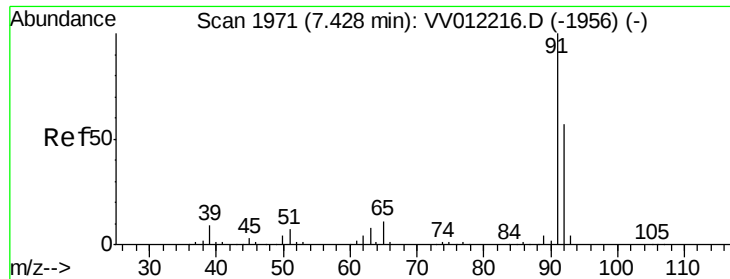
Tgt Ion: 75 Resp: 247724
 Ion Ratio Lower Upper
 75 100
 77 30.9 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 135.640 ug/L
 RT: 7.28 min Scan# 1924
 Delta R.T. 0.00 min
 Lab File: VV012217.D
 Acq: 13 Aug 2019 15:55

Tgt Ion: 43 Resp: 993943
 Ion Ratio Lower Upper
 43 100
 58 39.4 30.7 46.1
 100 16.0 12.5 18.7





#42

Toluene

Concen: 11.364 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV012217.D

Acq: 13 Aug 2019 15:55

Instrument :

MSVOA_V

ClientSampleId :

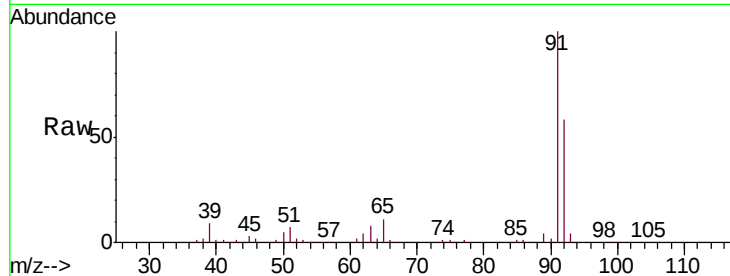
VSTD01032

Tgt Ion: 91 Resp: 747586

Ion Ratio Lower Upper

91 100

92 58.0 39.8 73.8



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0

7.43

400000

300000

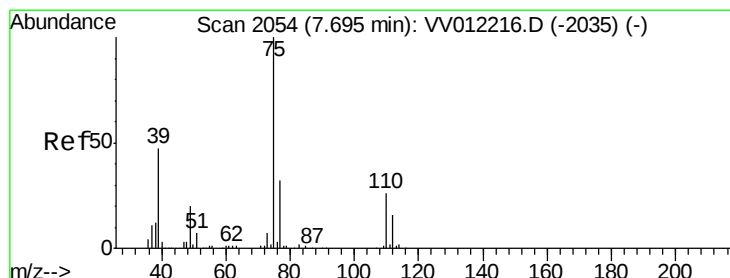
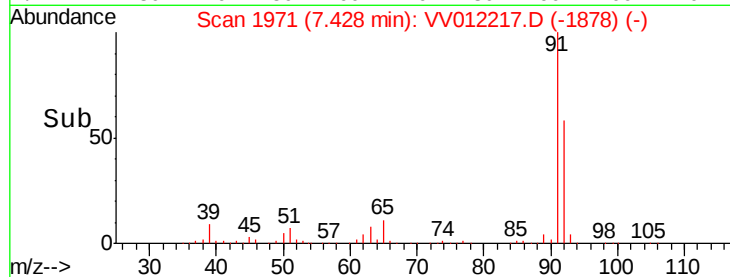
200000

100000

0

7.40 7.50

Time-->



#44

trans-1,3-Dichloropropene

Concen: 11.091 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV012217.D

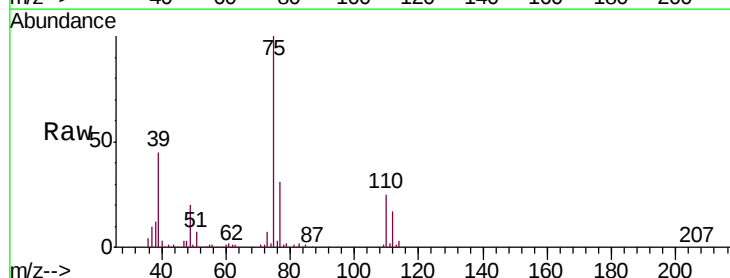
Acq: 13 Aug 2019 15:55

Tgt Ion: 75 Resp: 192141

Ion Ratio Lower Upper

75 100

77 31.3 22.5 41.7



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.69

120000

100000

80000

60000

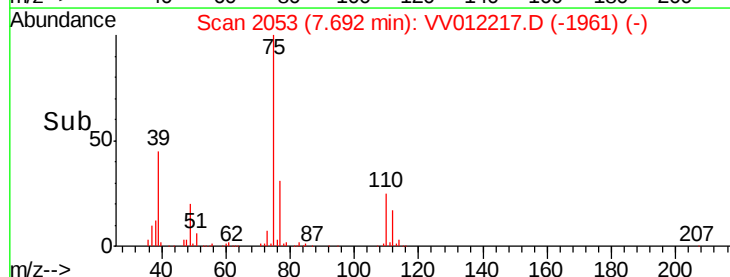
40000

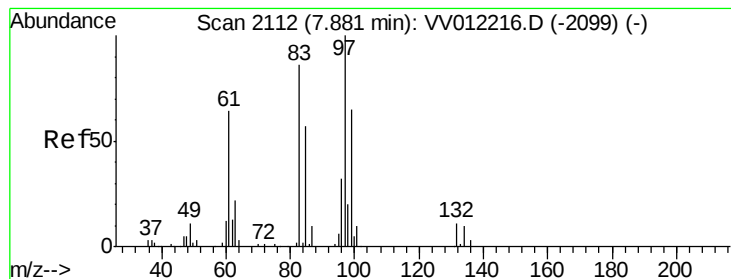
20000

0

7.60 7.70 7.80

Time-->





#45

1,1,2-Trichloroethane

Concen: 10.917 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VV012217.D

Acq: 13 Aug 2019 15:55

Instrument :

MSVOA_V

ClientSampleId :

VSTD01032

Tgt Ion: 97 Resp: 113904

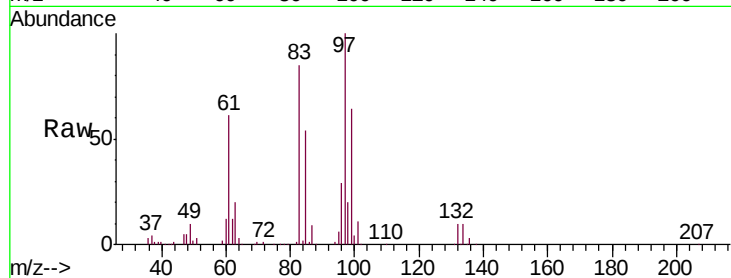
Ion Ratio Lower Upper

97 100

99 64.0 45.4 84.2

83 84.8 60.1 111.5

85 54.1 39.8 73.8



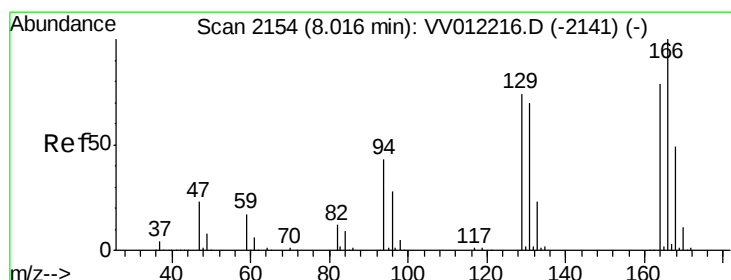
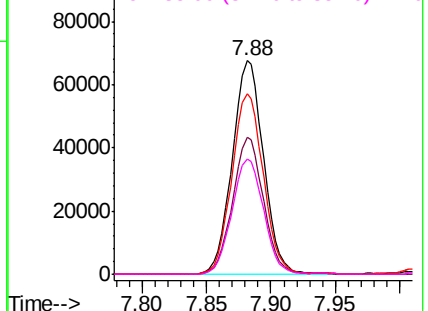
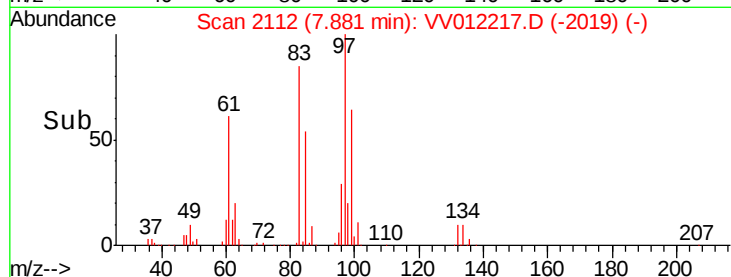
Abundance

Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0



#47

Tetrachloroethene

Concen: 9.746 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV012217.D

Acq: 13 Aug 2019 15:55

Tgt Ion: 164 Resp: 151348

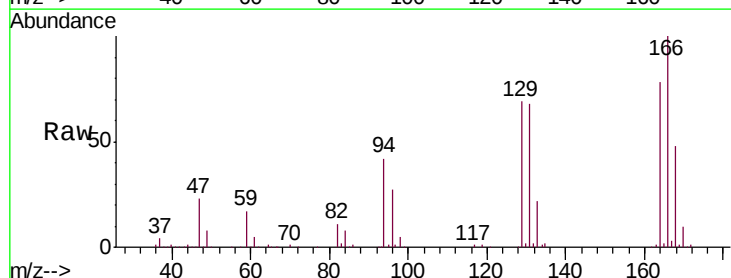
Ion Ratio Lower Upper

164 100

129 88.3 65.8 122.2

131 86.7 61.9 114.9

166 128.1 88.3 164.1



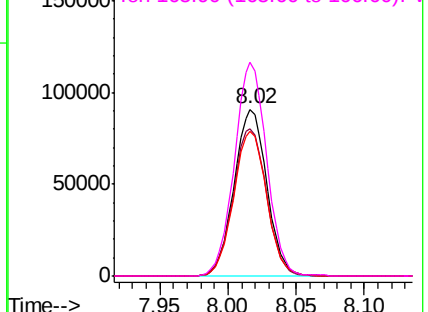
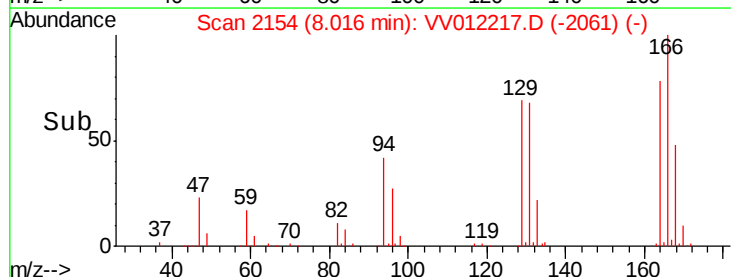
Abundance

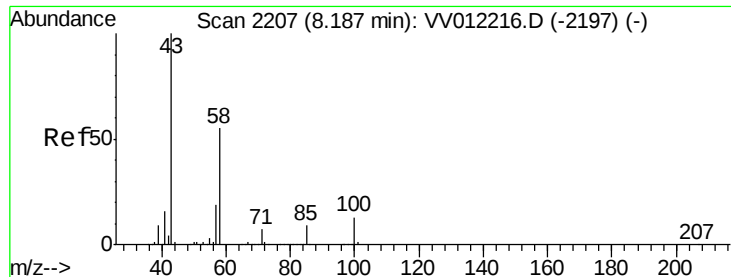
Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

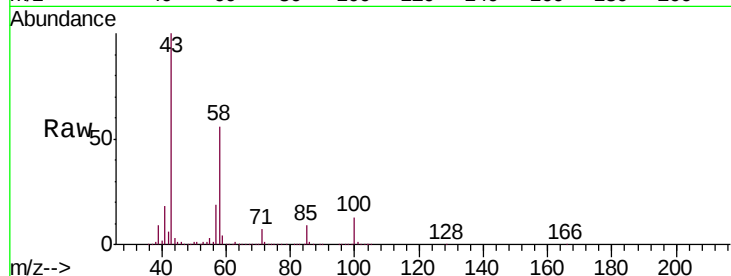




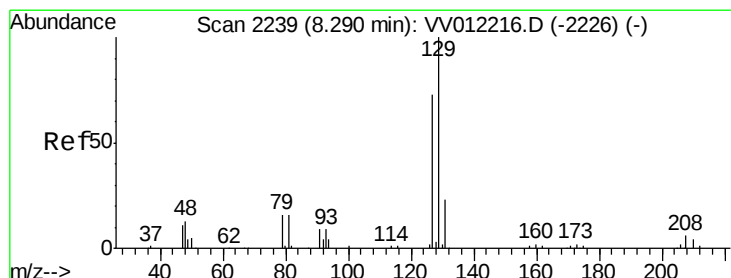
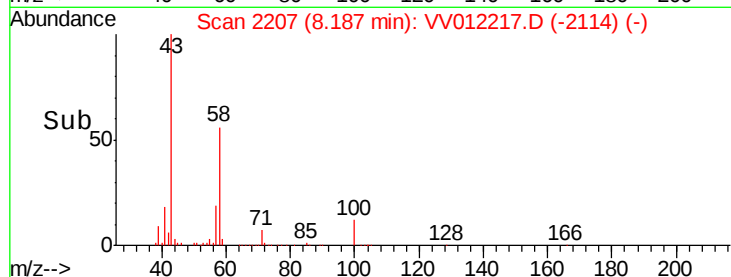
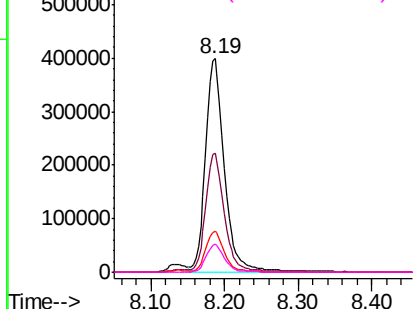
#48
2-Hexanone
Concen: 138.569 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. 0.00 min
Lab File: VV012217.D
Acq: 13 Aug 2019 15:55

Instrument :
MSVOA_V
ClientSampleId :
VSTD01032

Tgt Ion: 43 Resp: 714484
Ion Ratio Lower Upper
43 100
58 55.6 43.0 64.4
57 19.0 14.9 22.3
100 12.6 10.3 15.5

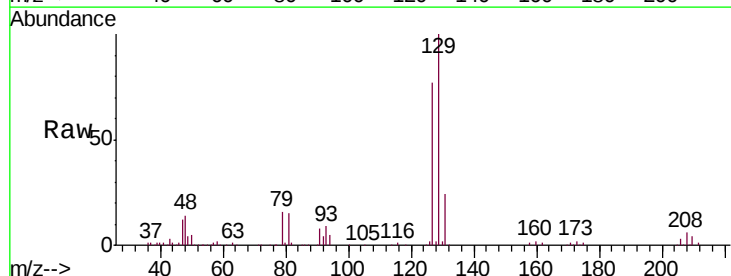


Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0

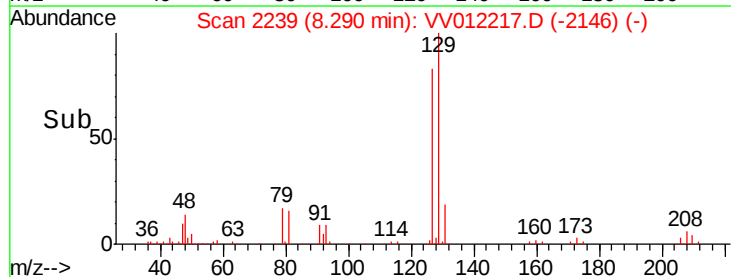
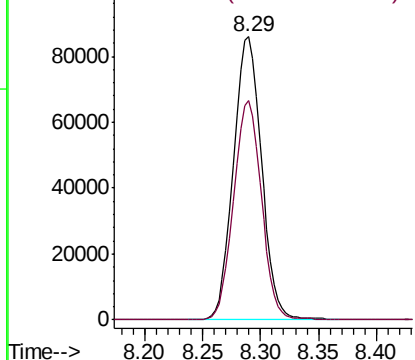


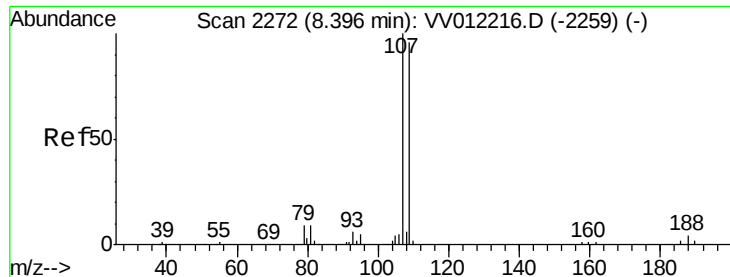
#49
Dibromochloromethane
Concen: 9.654 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV012217.D
Acq: 13 Aug 2019 15:55

Tgt Ion: 129 Resp: 144316
Ion Ratio Lower Upper
129 100
127 77.4 51.0 94.8



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

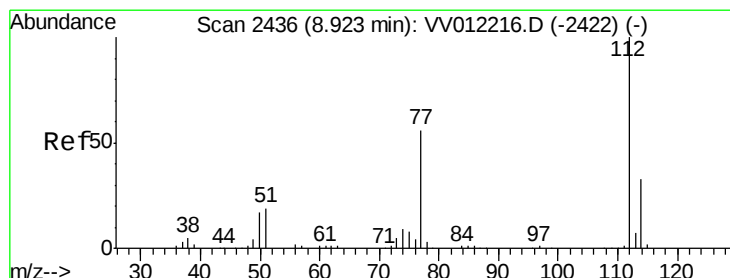
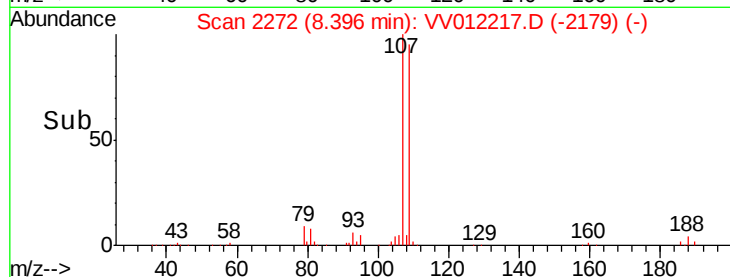
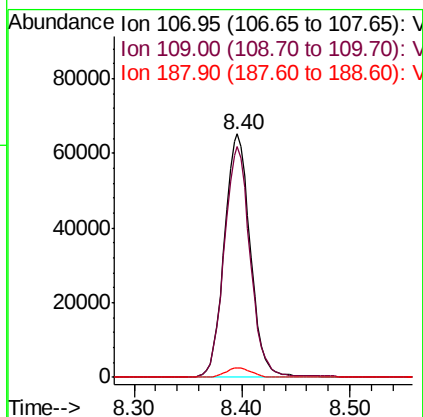
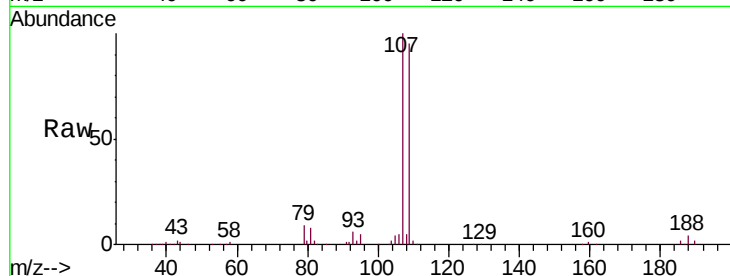




#50
 1,2-Dibromoethane
 Concen: 10.640 ug/L
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VV012217.D
 Acq: 13 Aug 2019 15:55

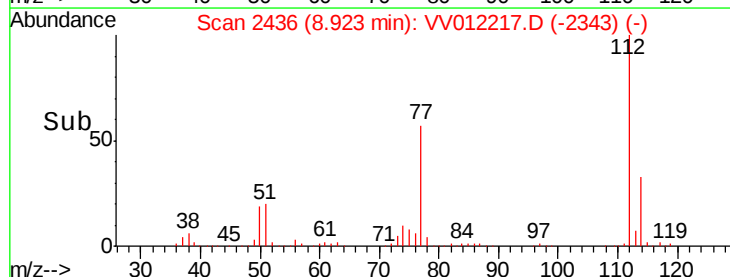
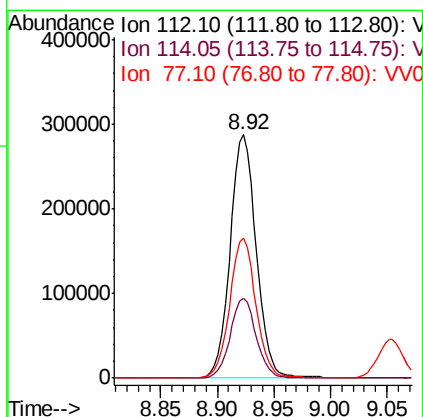
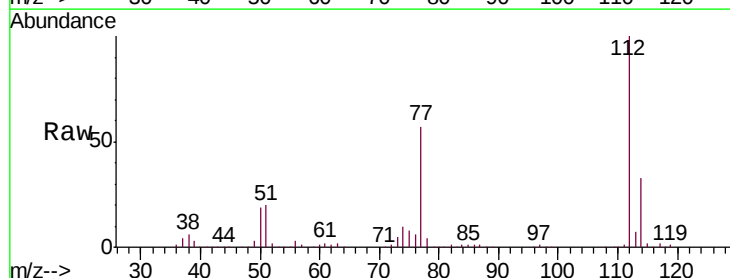
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD01032

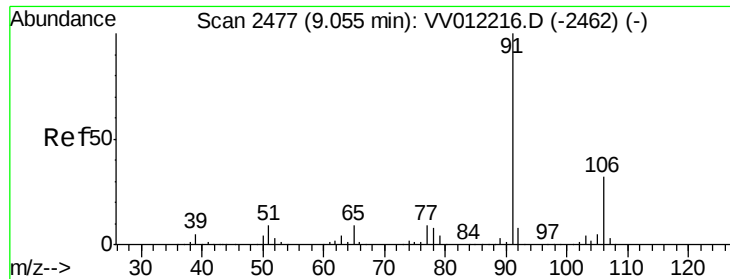
Tgt Ion:107 Resp: 109249
 Ion Ratio Lower Upper
 107 100
 109 94.7 67.3 125.1
 188 3.9 3.4 5.0



#51
 Chlorobenzene
 Concen: 10.475 ug/L
 RT: 8.92 min Scan# 2436
 Delta R.T. 0.00 min
 Lab File: VV012217.D
 Acq: 13 Aug 2019 15:55

Tgt Ion:112 Resp: 461043
 Ion Ratio Lower Upper
 112 100
 114 32.9 22.8 42.4
 77 57.3 45.4 68.2





#52

Ethylbenzene

Concen: 11.084 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. -0.00 min

Lab File: VV012217.D

Acq: 13 Aug 2019 15:55

Instrument :

MSVOA_V

ClientSampleId :

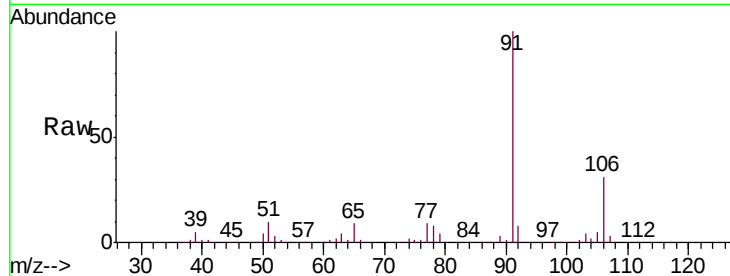
VSTD01032

Tgt Ion: 91 Resp: 813211

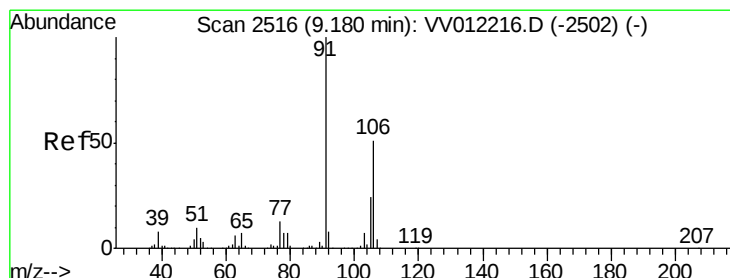
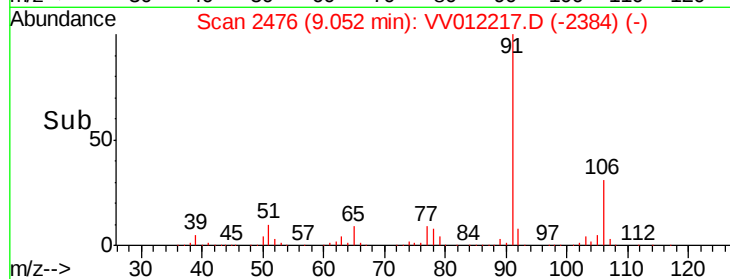
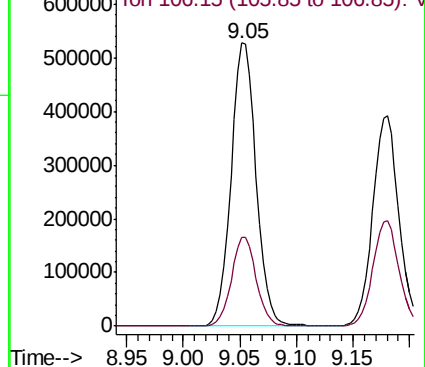
Ion Ratio Lower Upper

91 100

106 31.2 22.3 41.3



Abundance Ion 91.15 (90.85 to 91.85): VV012217.D (-2462) (-)



#53

m,p-xylene

Concen: 11.067 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV012217.D

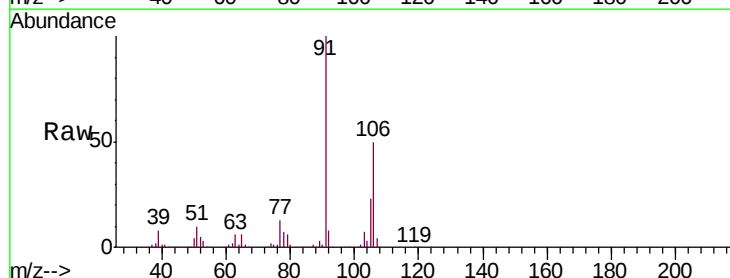
Acq: 13 Aug 2019 15:55

Tgt Ion: 106 Resp: 317484

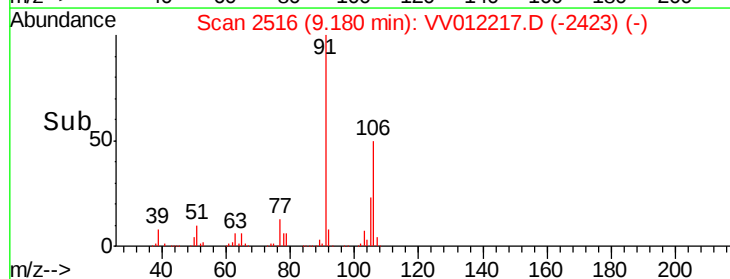
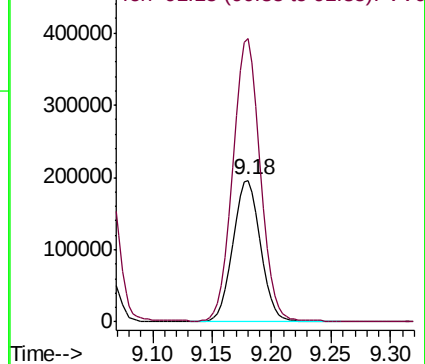
Ion Ratio Lower Upper

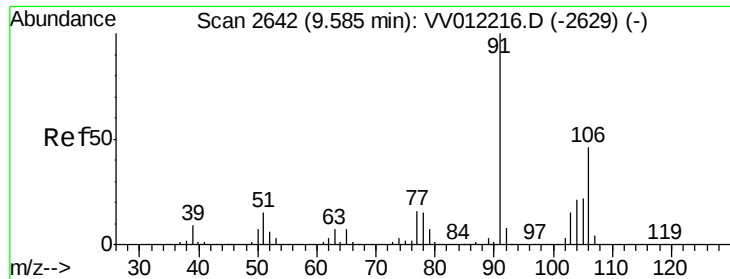
106 100

91 199.5 137.5 255.3



Abundance Ion 106.15 (105.85 to 106.85): VV012217.D (-2502) (-)

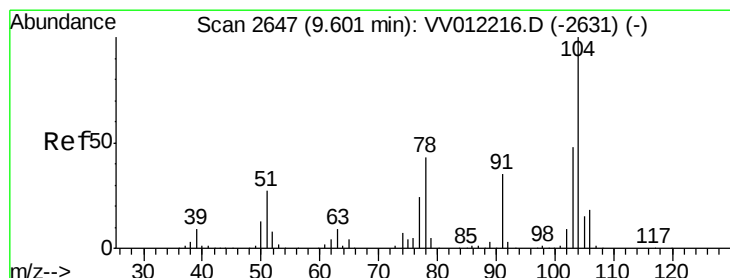
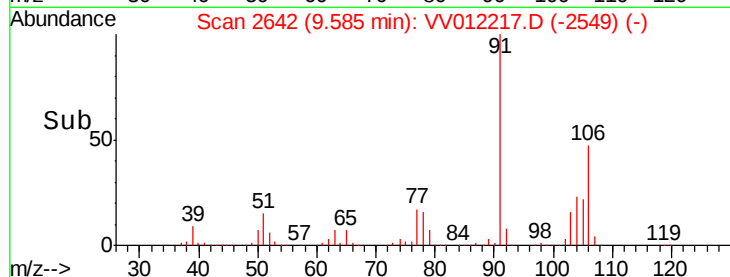
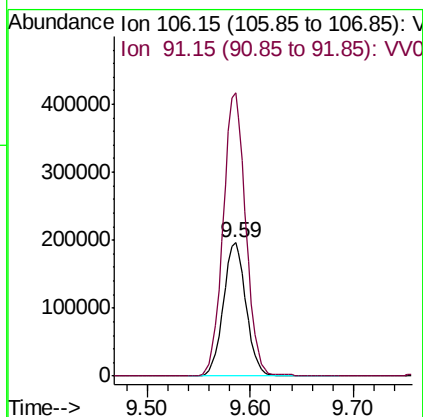
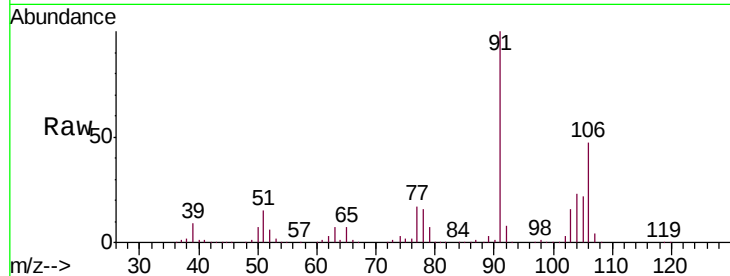




#54
o-xylene
Concen: 10.899 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. 0.00 min
Lab File: VV012217.D
Acq: 13 Aug 2019 15:55

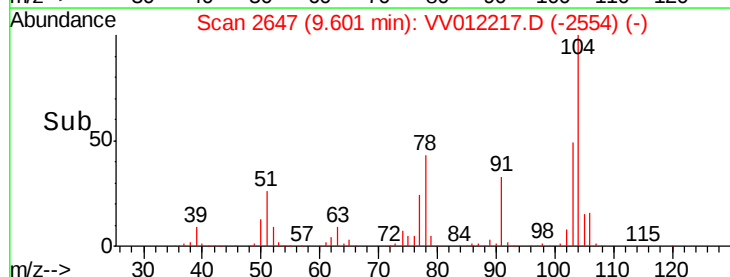
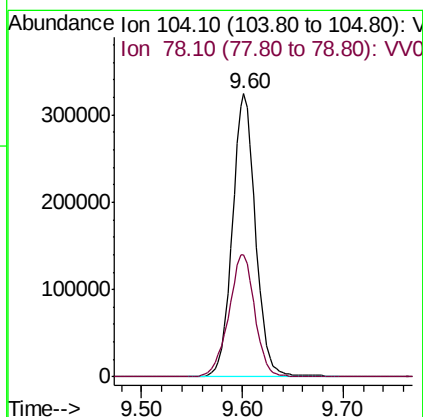
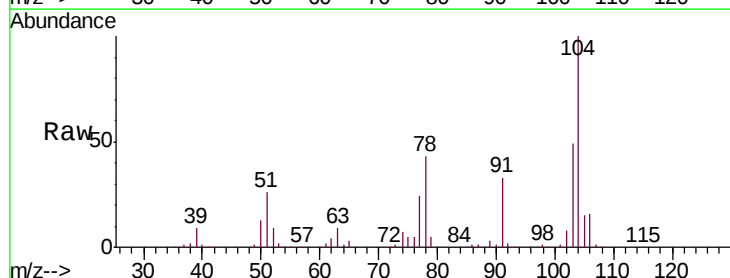
Instrument :
MSVOA_V
ClientSampleId :
VSTD01032

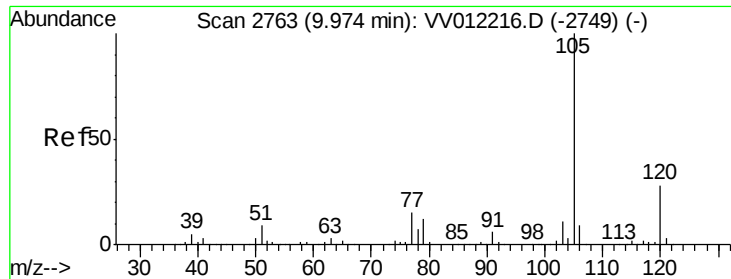
Tgt Ion:106 Resp: 301117
Ion Ratio Lower Upper
106 100
91 212.4 151.1 280.7



#55
Styrene
Concen: 11.258 ug/L
RT: 9.60 min Scan# 2647
Delta R.T. 0.00 min
Lab File: VV012217.D
Acq: 13 Aug 2019 15:55

Tgt Ion:104 Resp: 519462
Ion Ratio Lower Upper
104 100
78 43.3 30.3 56.3





#56

Isopropylbenzene

Concen: 10.666 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. -0.00 min

Lab File: VV012217.D

Acq: 13 Aug 2019 15:55

Instrument :

MSVOA_V

ClientSampleId :

VSTD01032

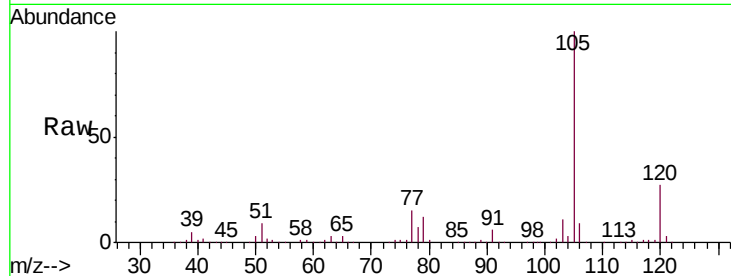
Tgt Ion: 105 Resp: 809119

Ion Ratio Lower Upper

105 100

120 26.7 22.0 33.0

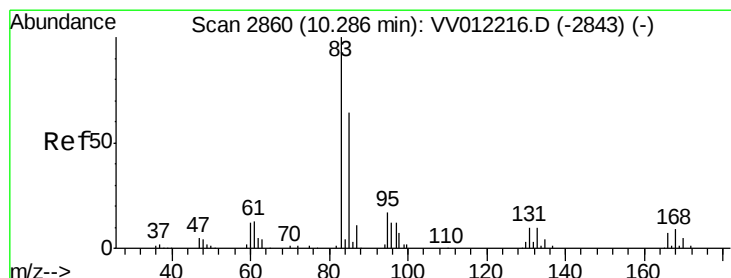
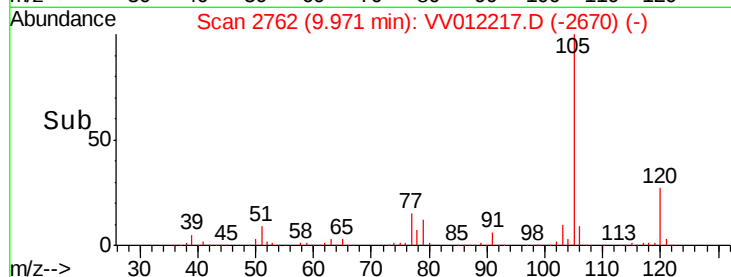
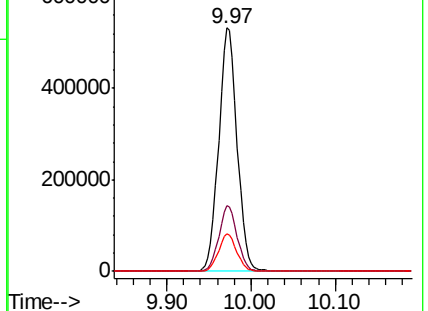
77 15.2 12.5 18.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 11.587 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV012217.D

Acq: 13 Aug 2019 15:55

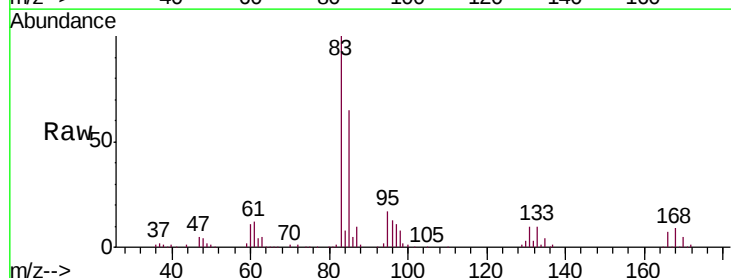
Tgt Ion: 83 Resp: 134399

Ion Ratio Lower Upper

83 100

85 64.6 45.0 83.6

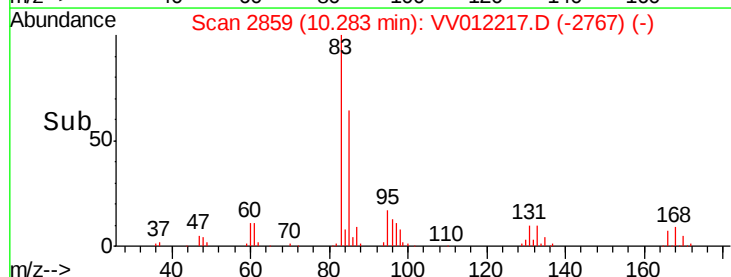
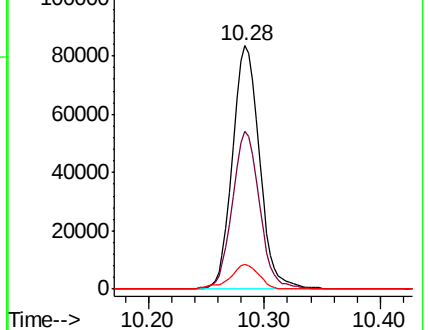
131 10.1 8.3 12.5

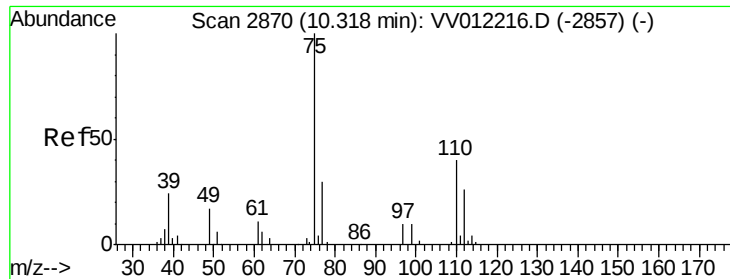


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 11.058 ug/L

RT: 10.32 min Scan# 2869

Delta R.T. -0.00 min

Lab File: VV012217.D

Acq: 13 Aug 2019 15:55

Instrument :

MSVOA_V

ClientSampleId :

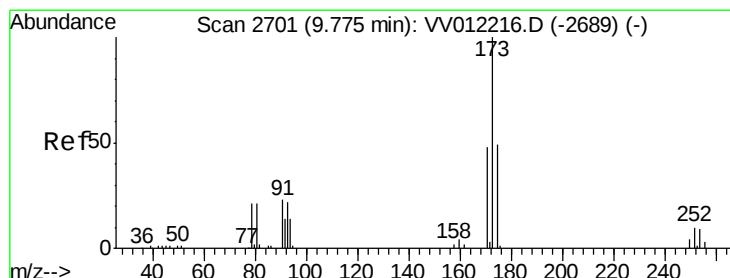
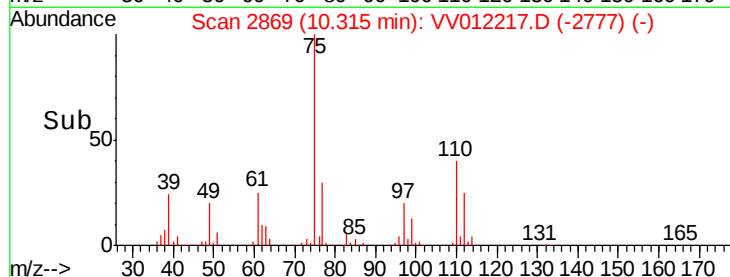
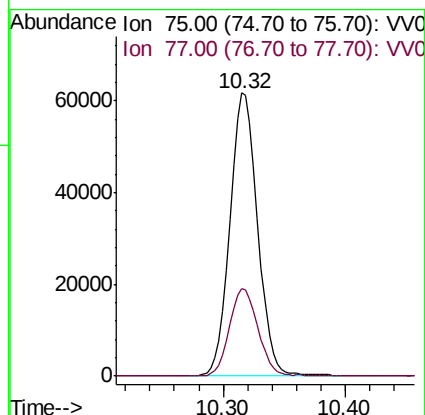
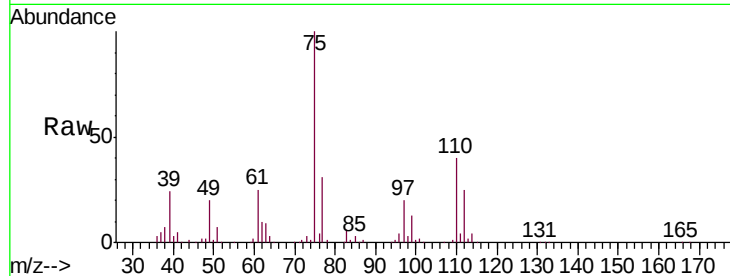
VSTD01032

Tgt Ion: 75 Resp: 98150

Ion Ratio Lower Upper

75 100

77 31.2 25.0 37.6



#61

Bromoform

Concen: 8.583 ug/L

RT: 9.78 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV012217.D

Acq: 13 Aug 2019 15:55

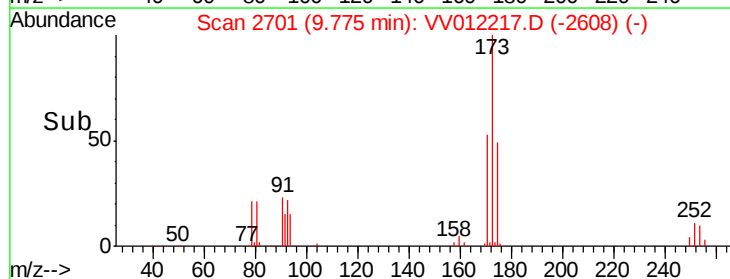
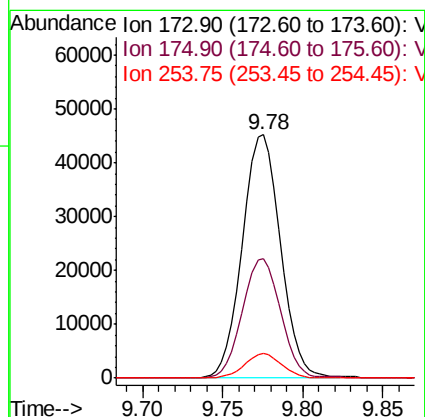
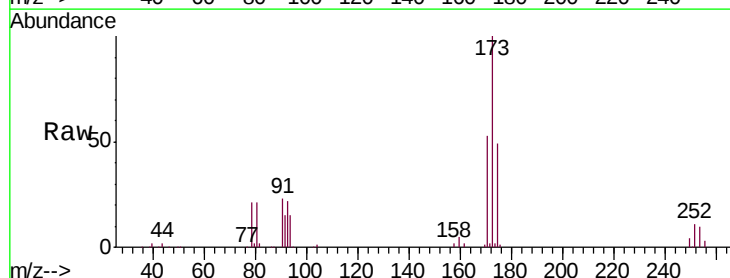
Tgt Ion: 173 Resp: 73708

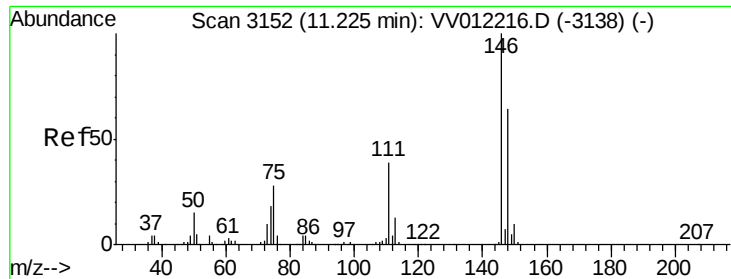
Ion Ratio Lower Upper

173 100

175 49.4 38.8 58.2

254 9.9 7.6 11.4





#62

1,3-Dichlorobenzene

Concen: 10.466 ug/L

RT: 11.23 min Scan# 3152

Delta R.T. 0.00 min

Lab File: VV012217.D

Acq: 13 Aug 2019 15:55

Instrument :

MSVOA_V

ClientSampleId :

VSTD01032

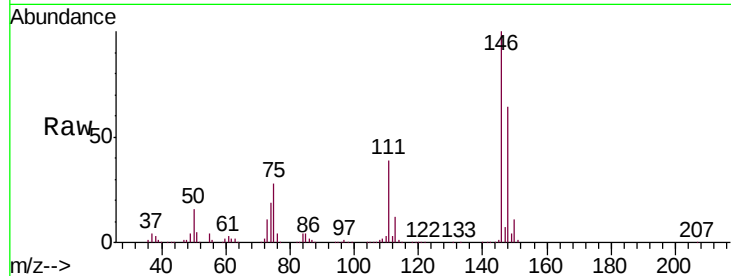
Tgt Ion:146 Resp: 376514

Ion Ratio Lower Upper

146 100

111 38.7 26.9 50.1

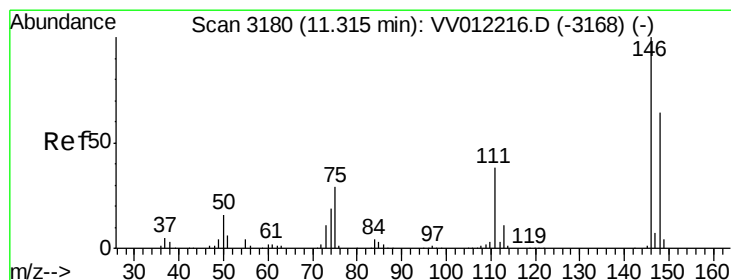
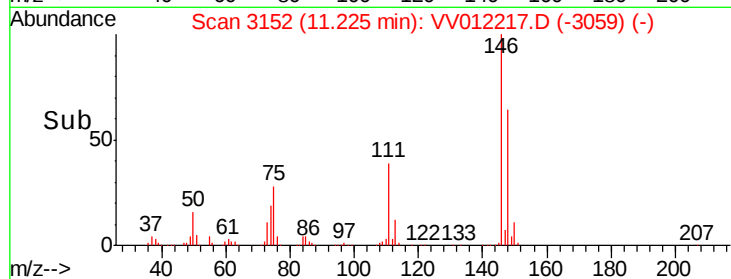
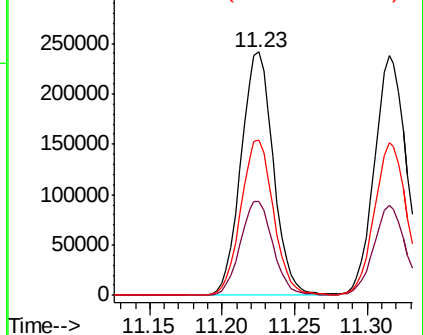
148 63.8 45.0 83.6



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 10.309 ug/L

RT: 11.32 min Scan# 3180

Delta R.T. 0.00 min

Lab File: VV012217.D

Acq: 13 Aug 2019 15:55

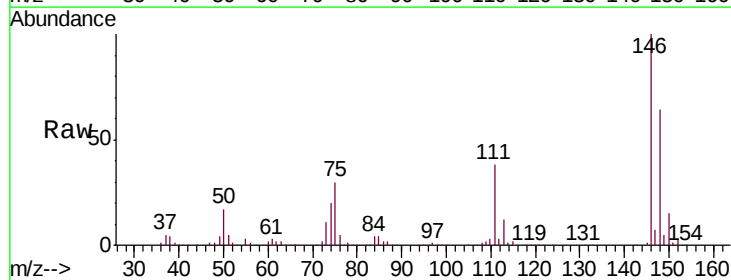
Tgt Ion:146 Resp: 370626

Ion Ratio Lower Upper

146 100

111 37.6 27.0 50.2

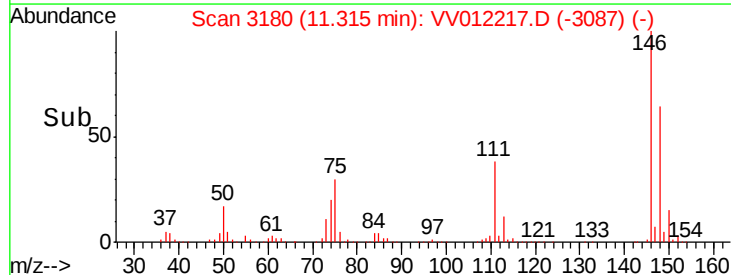
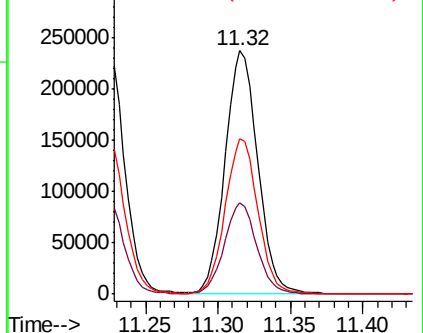
148 63.6 44.5 82.7

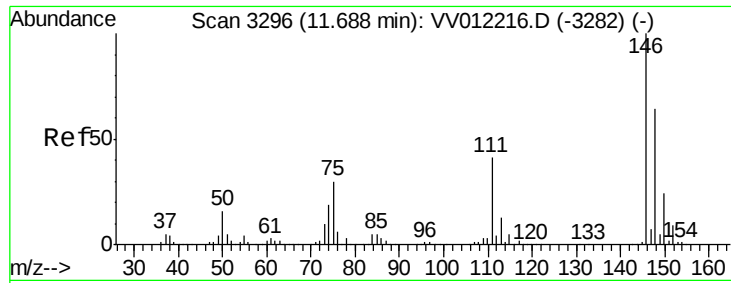


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 10.473 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. 0.00 min

Lab File: VV012217.D

Acq: 13 Aug 2019 15:55

Instrument :

MSVOA_V

ClientSampleId :

VSTD01032

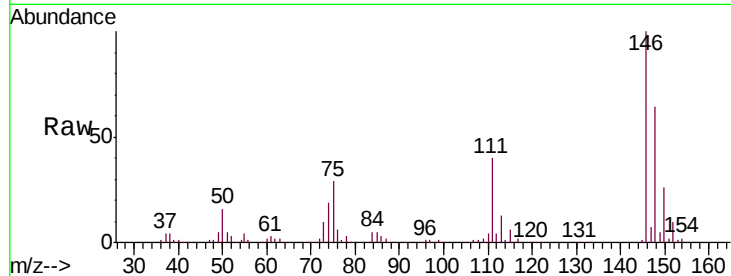
Tgt Ion:146 Resp: 348226

Ion Ratio Lower Upper

146 100

111 40.5 33.0 49.4

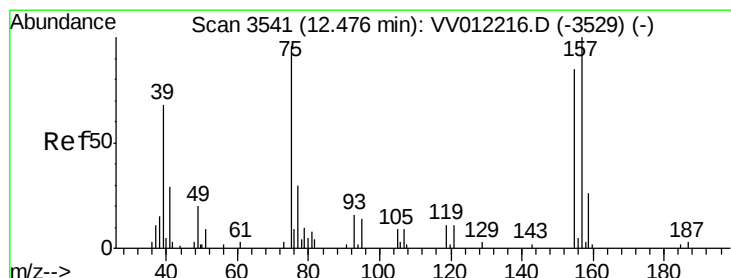
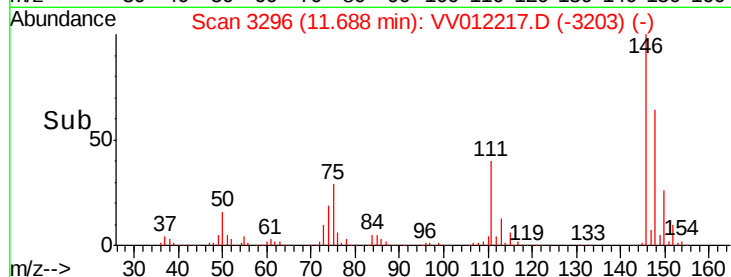
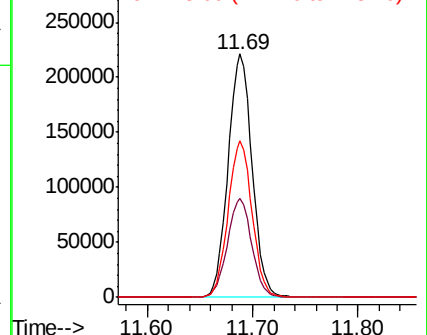
148 64.2 51.1 76.7



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 10.003 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. 0.00 min

Lab File: VV012217.D

Acq: 13 Aug 2019 15:55

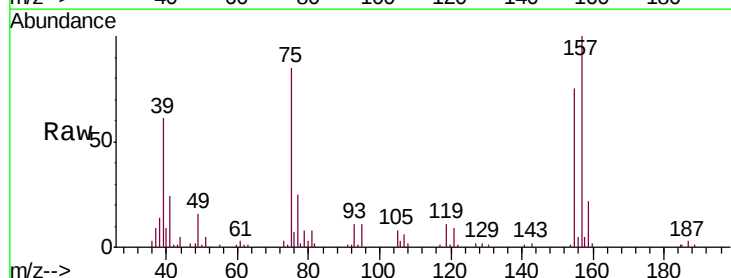
Tgt Ion: 75 Resp: 20987

Ion Ratio Lower Upper

75 100

155 88.5 70.8 106.2

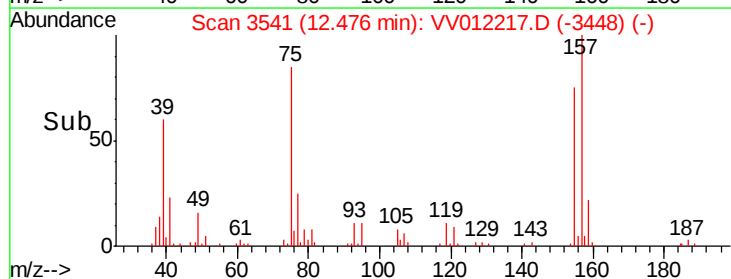
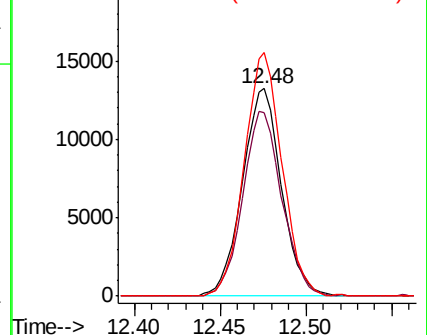
157 117.4 83.5 125.3

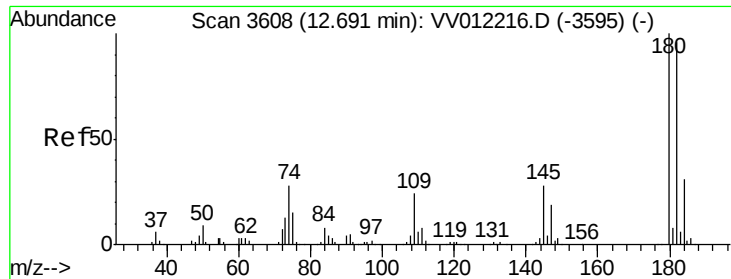


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

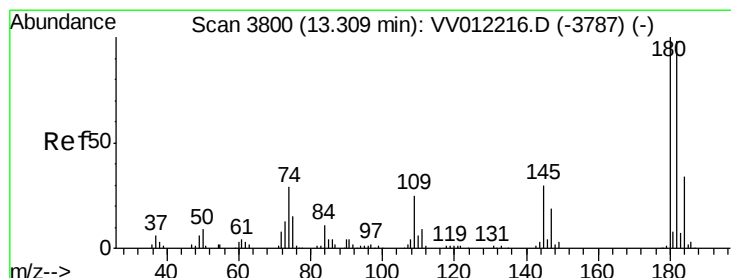
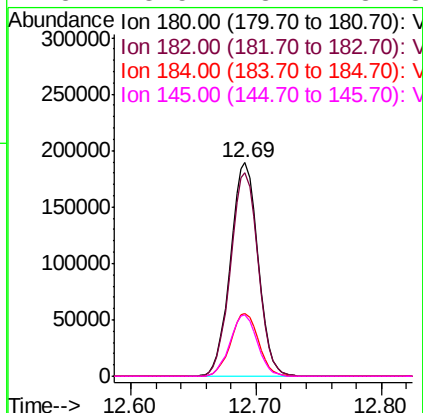
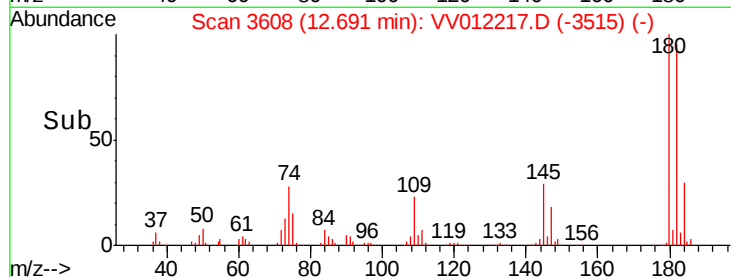
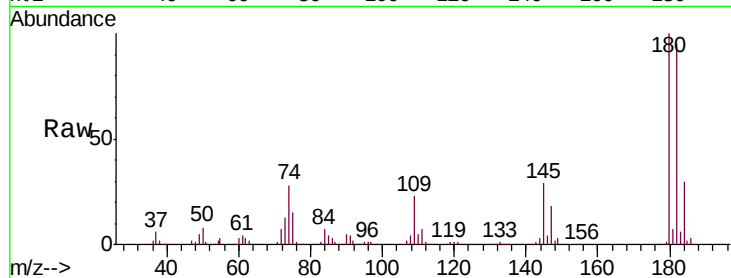




#67
 1,3,5-Trichlorobenzene
 Concen: 9.658 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV012217.D
 Acq: 13 Aug 2019 15:55

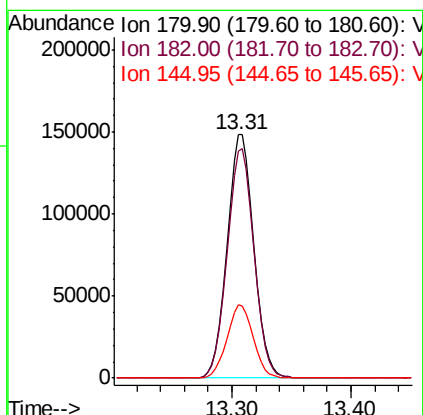
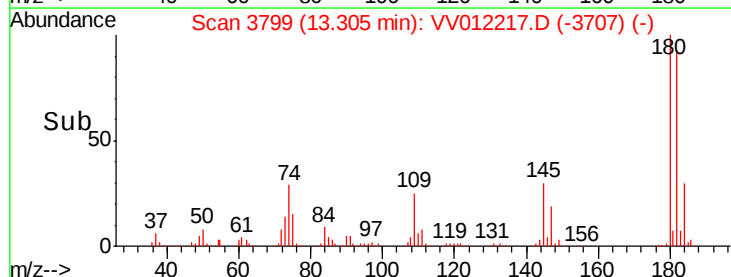
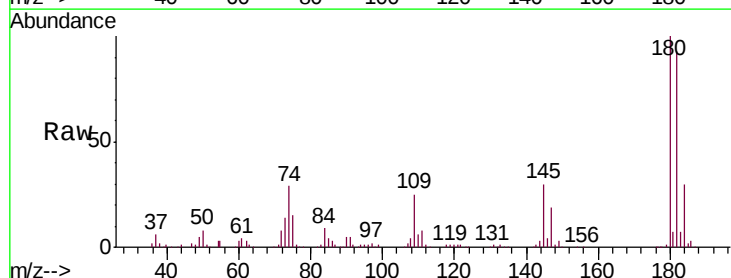
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD01032

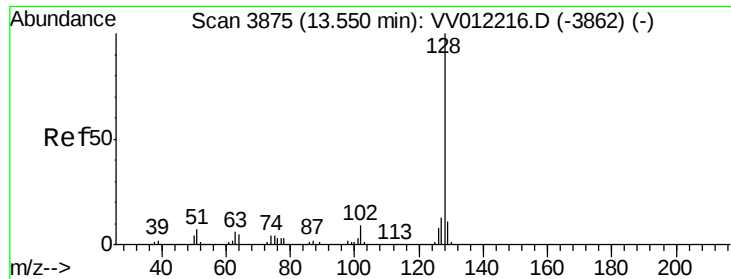
Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.3	114.5
184	29.9	24.6	36.8
145	28.5	23.2	34.8



#68
 1,2,4-trichlorobenzene
 Concen: 9.462 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. -0.00 min
 Lab File: VV012217.D
 Acq: 13 Aug 2019 15:55

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.7	77.2	115.8
145	29.6	23.9	35.9





#69

Naphthalene

Concen: 9.481 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV012217.D

Acq: 13 Aug 2019 15:55

Instrument :

MSVOA_V

ClientSampleId :

VSTD01032

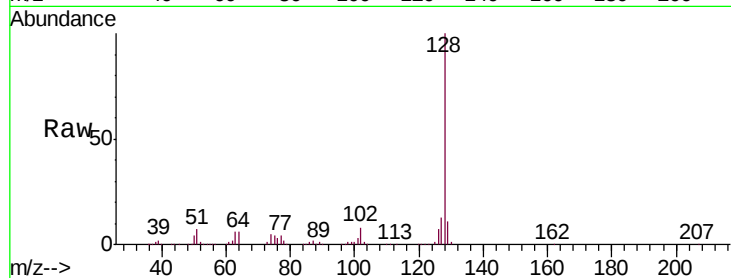
Tgt Ion:128 Resp: 367962

Ion Ratio Lower Upper

128 100

129 10.7 8.6 12.8

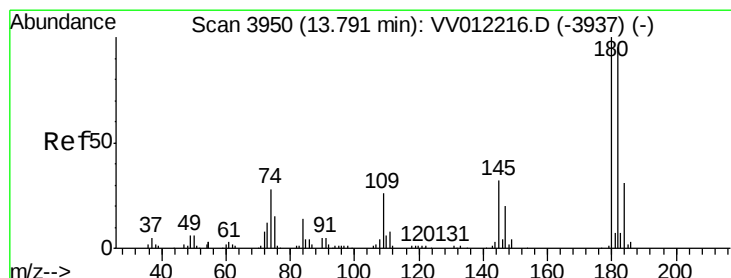
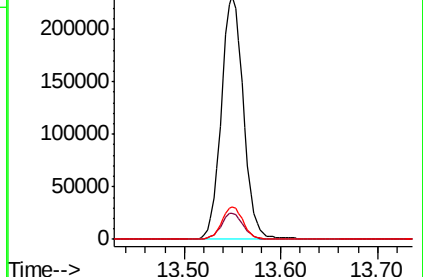
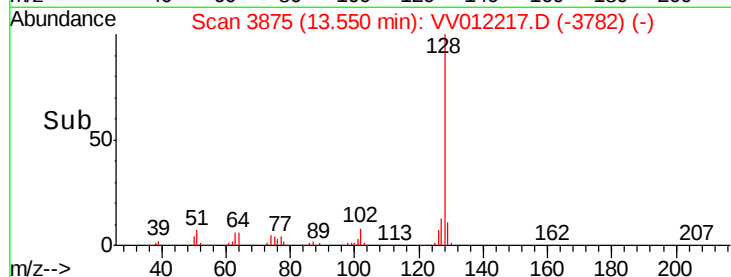
127 13.0 10.1 15.1



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: 9.205 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VV012217.D

Acq: 13 Aug 2019 15:55

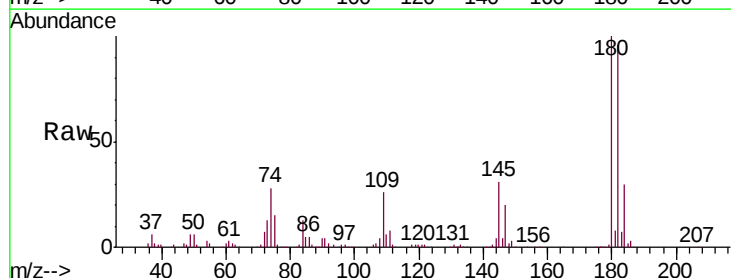
Tgt Ion:180 Resp: 214237

Ion Ratio Lower Upper

180 100

182 95.4 75.0 112.4

145 31.2 24.8 37.2



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

