

Data File : VV010060.D
Acq On : 02 Apr 2019 14:05
Operator : SY/MD
Sample : VSTD05064
Misc : 5.00G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD05064

Quant Time: Apr 02 14:45:40 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis
QLast Update : Tue Apr 02 14:35:17 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	300808	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	295511	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	151809	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	193970	46.95	ug/L	0.00
7) Chloroethane-d5	1.58	69	248255	68.24	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.13	63	486349	46.92	ug/L	0.00
20) 2-Butanone-d5	3.94	46	122998	109.73	ug/L	0.00
24) Chloroform-d	4.40	84	390427	53.94	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	220553	49.77	ug/L	0.00
29) Benzene-d6	5.10	84	771696	50.66	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.12	67	228816	52.67	ug/L	0.00
37) Toluene-d8	7.36	98	764299	51.29	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.66	79	104739	55.97	ug/L	0.00
39) 2-Hexanone-d5	8.13	63	95125	110.54	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	231395	51.61	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.67	152	302274	49.96	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	188812	40.754	ug/L	98
3) Chloromethane	1.25	50	173116	42.767	ug/L	99
5) Vinyl chloride	1.32	62	196057	44.277	ug/L	99
6) Bromomethane	1.53	94	238586	60.465	ug/L	98
8) Chloroethane	1.59	64	188407	64.286	ug/L	99
9) Trichlorofluoromethane	1.76	101	414033	45.430	ug/L	97
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	231619	44.904	ug/L	99
12) 1,1-Dichloroethene	2.14	96	194301	43.701	ug/L	99
13) Acetone	2.20	43	98624	74.349	ug/L	99
14) Carbon disulfide	2.32	76	407807	45.664	ug/L	99
15) Methyl Acetate	2.46	43	88221	45.830	ug/L	99
16) Methylene chloride	2.53	84	194576	37.020	ug/L	99
17) Methyl tert-butyl Ether	2.80	73	447690	48.820	ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	173103	46.786	ug/L	98
19) 1,1-Dichloroethane	3.23	63	304095	46.724	ug/L	98
21) 2-Butanone	4.03	43	120728	95.732	ug/L	98
22) cis-1,2-Dichloroethene	3.96	96	199118	48.022	ug/L	96
23) Bromochloromethane	4.30	128	97112	47.390	ug/L	91
25) Chloroform	4.42	83	342857	44.971	ug/L	99
27) 1,2-Dichloroethane	5.18	62	232209	47.952	ug/L	100
30) Cyclohexane	4.72	56	255298	47.291	ug/L	100
31) 1,1,1-Trichloroethane	4.66	97	295744	48.985	ug/L	99
32) Carbon tetrachloride	4.87	117	270150	49.132	ug/L	97
34) Benzene	5.15	78	701204	47.381	ug/L	100
35) Trichloroethene	5.96	95	195597	46.210	ug/L	99
36) Methylcyclohexane	6.18	83	304981	46.840	ug/L	99
40) 1,2-Dichloropropane	6.22	63	174858	48.287	ug/L	100
41) Bromodichloromethane	6.55	83	246834	51.149	ug/L	95
42) cis-1,3-Dichloropropene	7.07	75	283273	51.135	ug/L	99
43) 4-Methyl-2-pentanone	7.27	43	268495	97.018	ug/L	99

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Quant Title : VOC Analysis
QLast Update : Tue Apr 02 14:35:17 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	7.43	91	802484	47.844	ug/L	99
45) trans-1,3-Dichloropropene	7.69	75	245477	53.290	ug/L	94
46) 1,1,2-Trichloroethane	7.88	97	159168	48.525	ug/L	98
47) Tetrachloroethene	8.02	164	165587	46.086	ug/L	96
49) 2-Hexanone	8.19	43	202822	110.510	ug/L	97
50) Dibromochloromethane	8.29	129	197960	52.185	ug/L	96
51) 1,2-Dibromoethane	8.40	107	160517	48.815	ug/L	99
52) Chlorobenzene	8.93	112	540513	46.803	ug/L	99
53) Ethylbenzene	9.05	91	884660	47.734	ug/L	99
54) m,p-Xylene	9.18	106	349776	47.071	ug/L	97
55) o-xylene	9.59	106	347913	49.497	ug/L	92
56) Styrene	9.60	104	593211	50.437	ug/L	99
57) Isopropylbenzene	9.97	105	913992	48.807	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	210058	49.503	ug/L	97
59) 1,2,3-Trichloropropane	10.32	75	148361	47.648	ug/L	99
62) Bromoform	9.78	173	116335	54.858	ug/L	99
63) 1,3-Dichlorobenzene	11.22	146	444517	48.549	ug/L	97
64) 1,4-Dichlorobenzene	11.32	146	457974	47.568	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	430972	47.690	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.48	75	30370	52.129	ug/L #	85
67) 1,3,5-Trichlorobenzene	12.69	180	340575	50.437	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	281793	57.217	ug/L	99
69) Naphthalene	13.55	128	513932	66.378	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	268937	58.279	ug/L	99

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

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Instrument :
MSVOA_V
ClientSampleId :
VSTD05064

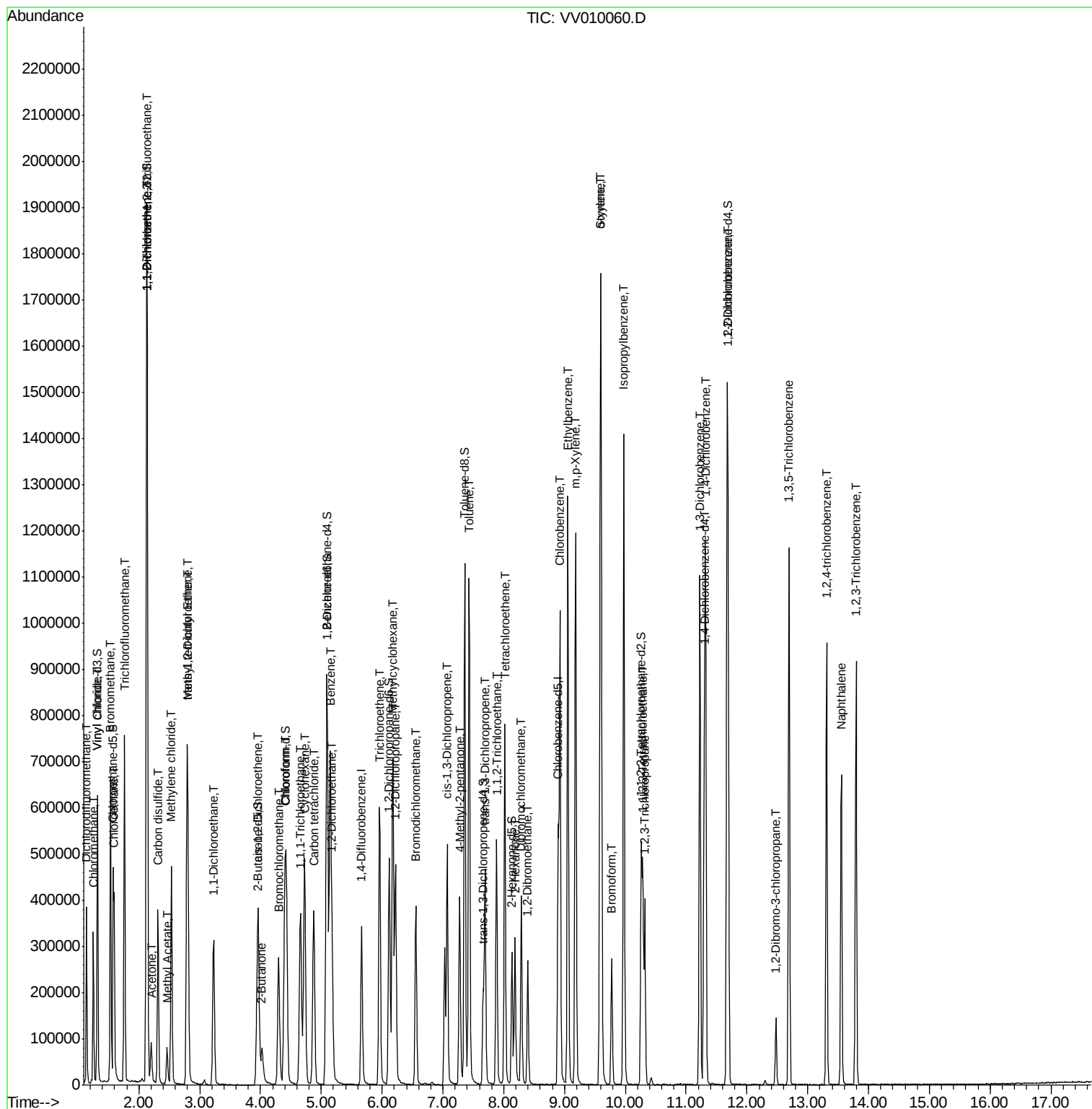
Quant Time: Apr 02 14:45:40 2019

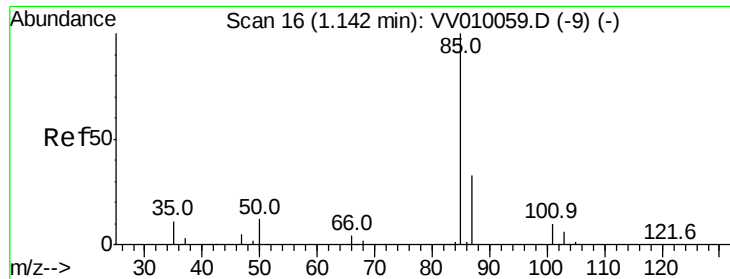
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM040219S.M

Quant Title : VOC Analysis

QLast Update : Tue Apr 02 14:35:17 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 40.754 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV010060.D

Acq: 02 Apr 2019 14:05

Instrument :

MSVOA_V

ClientSampleId :

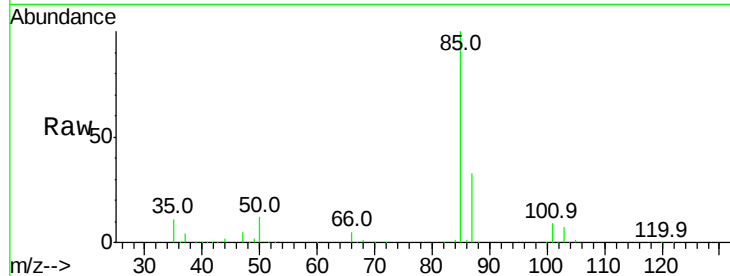
VSTD05064

Tgt Ion: 85 Resp: 188812

Ion Ratio Lower Upper

85 100

87 33.2 22.5 41.9



Abundance Ion 85.00 (84.70 to 85.70): VV010059.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VV010059.D (-9) (-)

1.14

200000

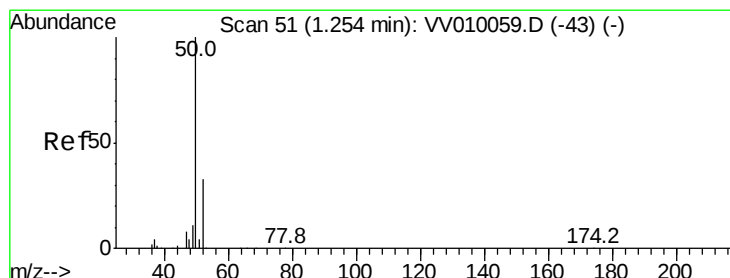
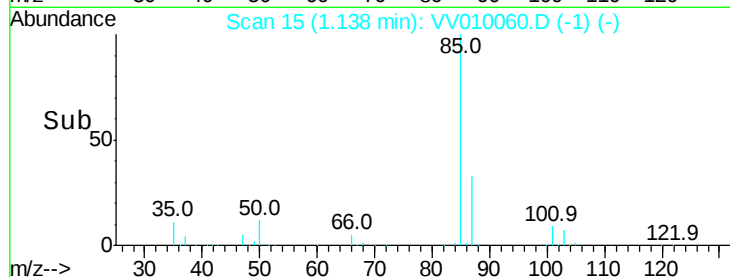
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 42.767 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV010060.D

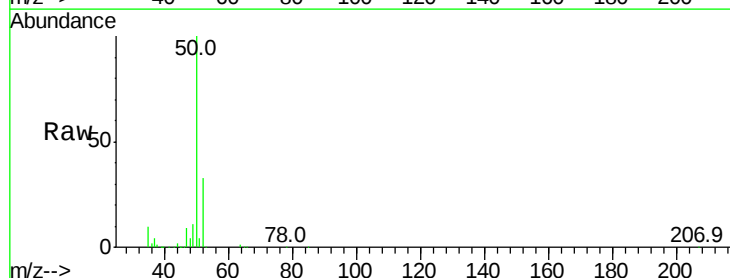
Acq: 02 Apr 2019 14:05

Tgt Ion: 50 Resp: 173116

Ion Ratio Lower Upper

50 100

52 33.1 23.4 43.4



Abundance Ion 50.00 (49.70 to 50.70): VV010059.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV010059.D (-43) (-)

1.25

200000

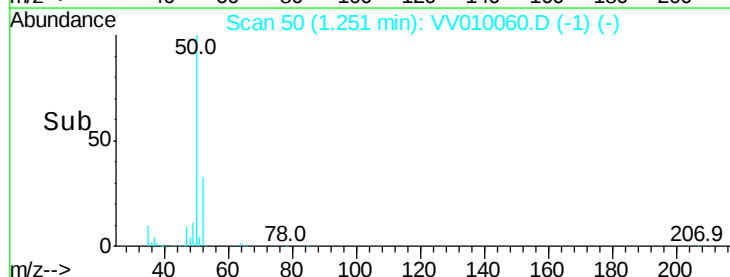
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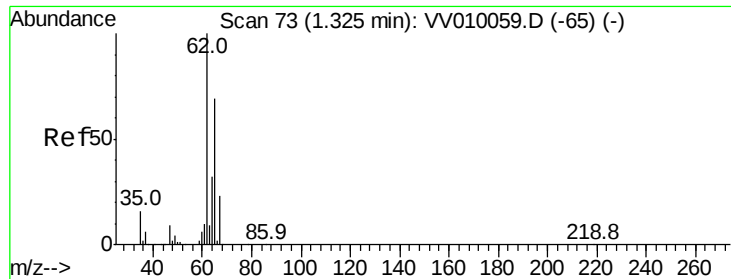
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 44.277 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV010060.D

Acq: 02 Apr 2019 14:05

Instrument :

MSVOA_V

ClientSampleId :

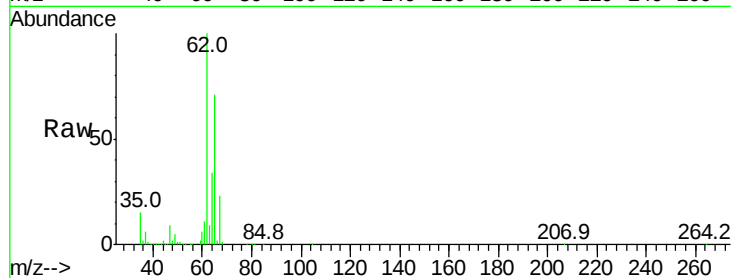
VSTD05064

Tgt Ion: 62 Resp: 196057

Ion Ratio Lower Upper

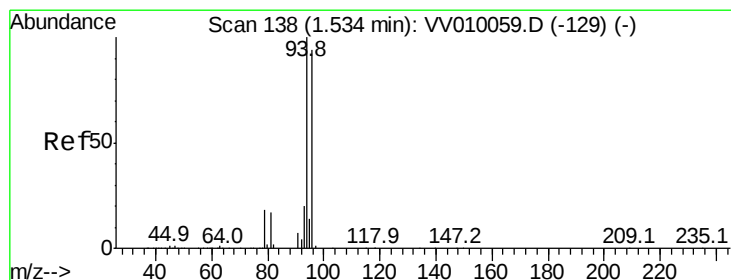
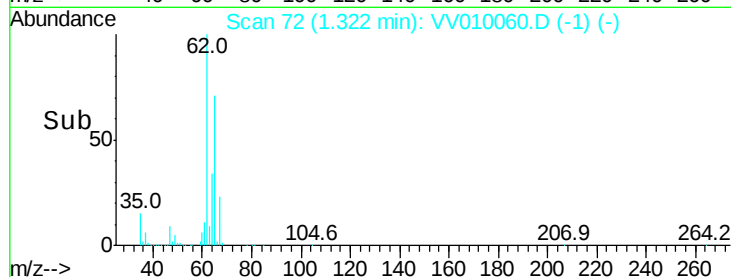
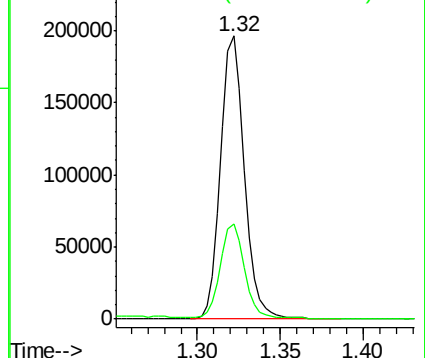
62 100

64 33.7 23.4 43.4



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 60.465 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV010060.D

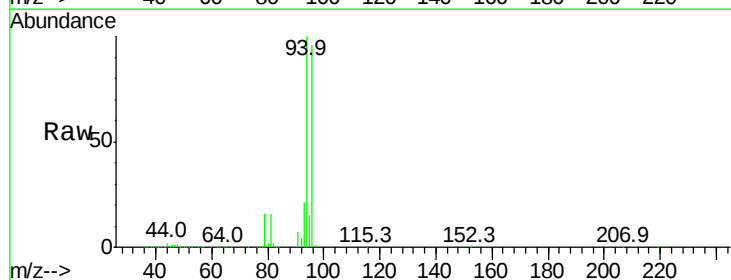
Acq: 02 Apr 2019 14:05

Tgt Ion: 94 Resp: 238586

Ion Ratio Lower Upper

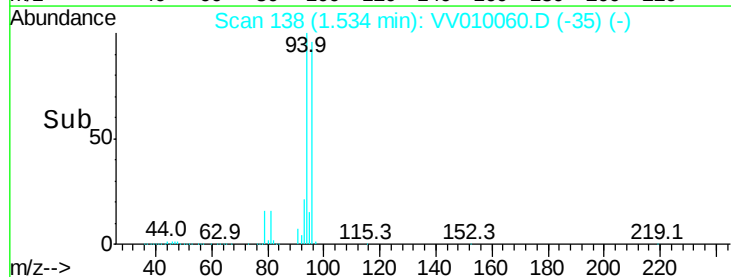
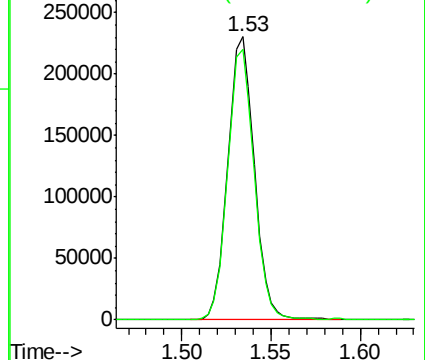
94 100

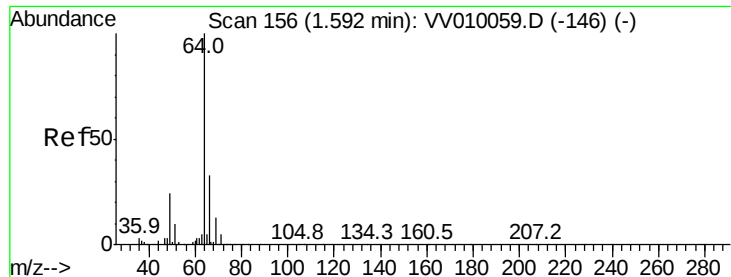
96 95.3 9.4 177.8



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 64.286 ug/L

RT: 1.59 min Scan# 156

Delta R.T. -0.00 min

Lab File: VV010060.D

Acq: 02 Apr 2019 14:05

Instrument :

MSVOA_V

ClientSampleId :

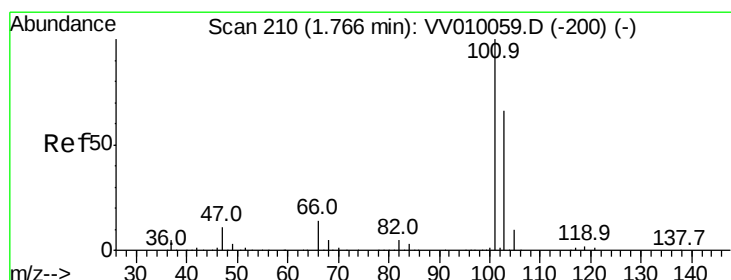
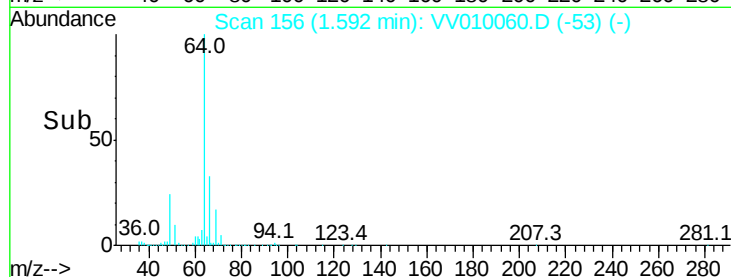
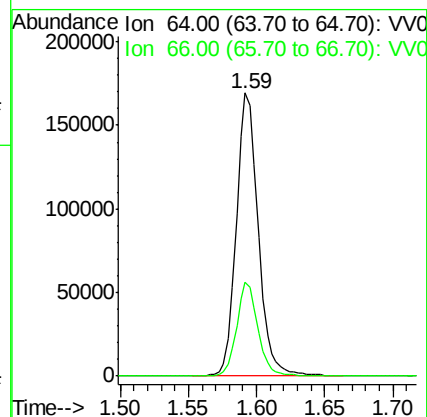
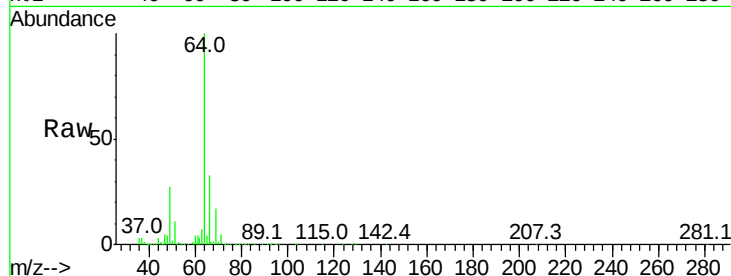
VSTD05064

Tgt Ion: 64 Resp: 188407

Ion Ratio Lower Upper

64 100

66 33.1 22.9 42.5



#9

Trichlorofluoromethane

Concen: 45.430 ug/L

RT: 1.76 min Scan# 209

Delta R.T. -0.00 min

Lab File: VV010060.D

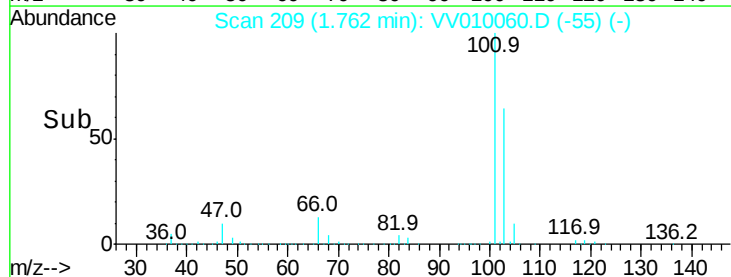
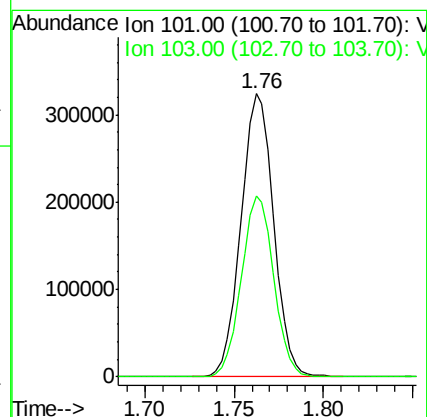
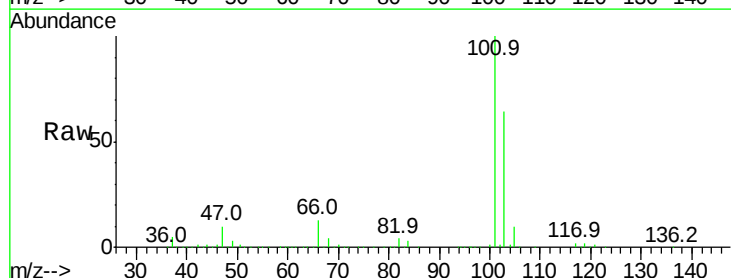
Acq: 02 Apr 2019 14:05

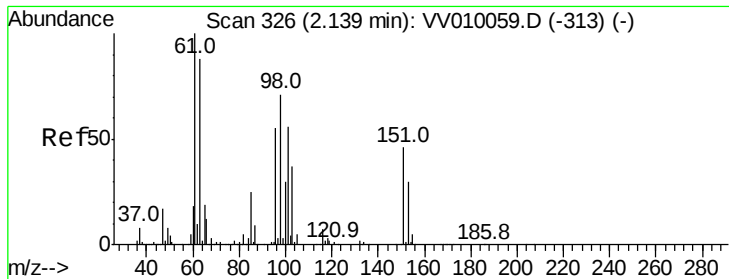
Tgt Ion: 101 Resp: 414033

Ion Ratio Lower Upper

101 100

103 63.6 46.1 85.5





#11

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

Concen: 44.904 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV010060.D

Acq: 02 Apr 2019 14:05

Instrument :

MSVOA_V

ClientSampleId :

VSTD05064

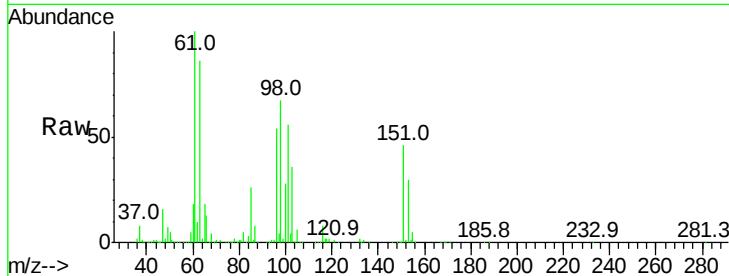
Tgt Ion: 101 Resp: 231619

Ion Ratio Lower Upper

101 100

85 46.9 37.3 55.9

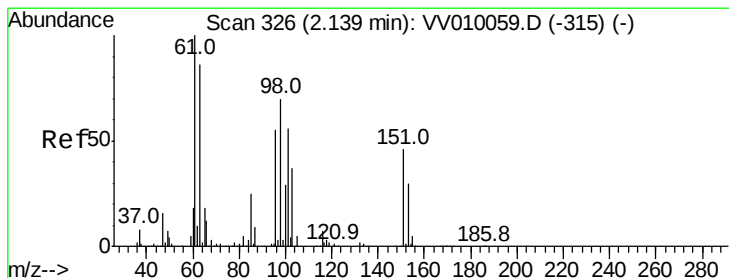
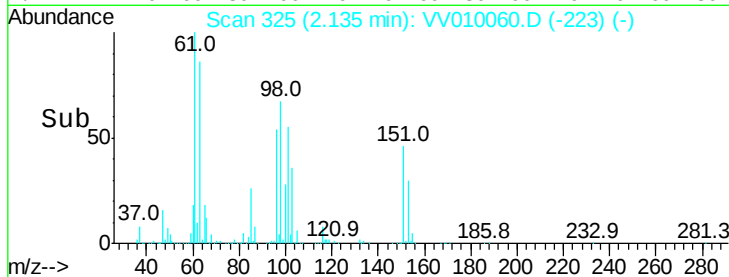
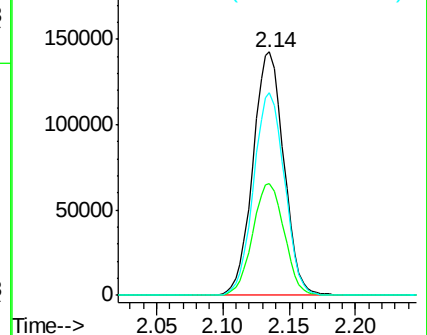
151 83.6 65.4 98.2



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: 43.701 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV010060.D

Acq: 02 Apr 2019 14:05

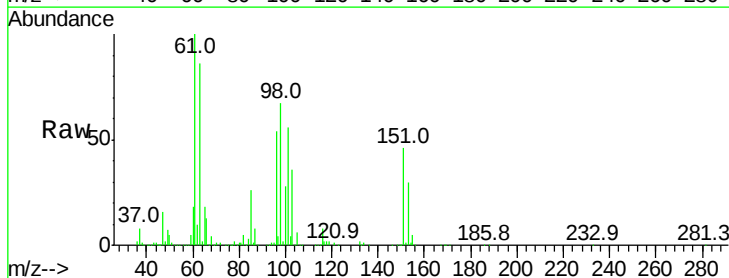
Tgt Ion: 96 Resp: 194301

Ion Ratio Lower Upper

96 100

61 183.9 127.8 237.4

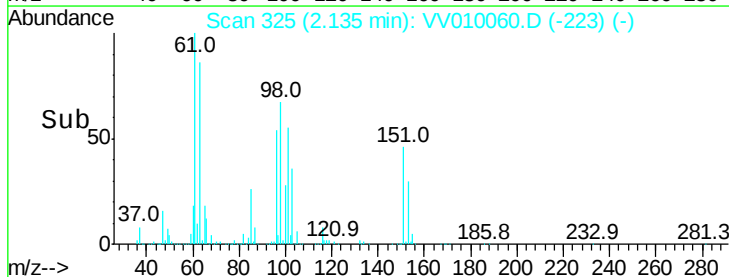
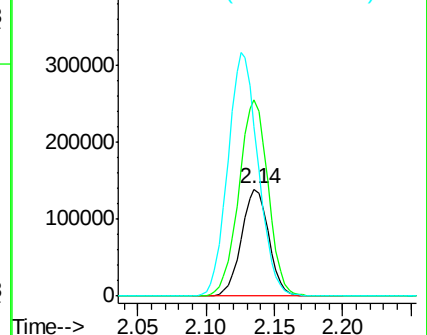
63 158.5 112.6 209.2

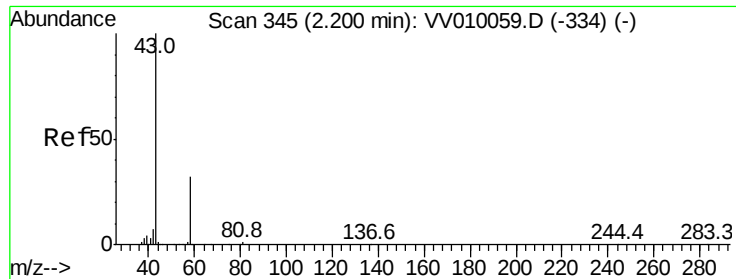


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 74.349 ug/L

RT: 2.20 min Scan# 346

Delta R.T. 0.00 min

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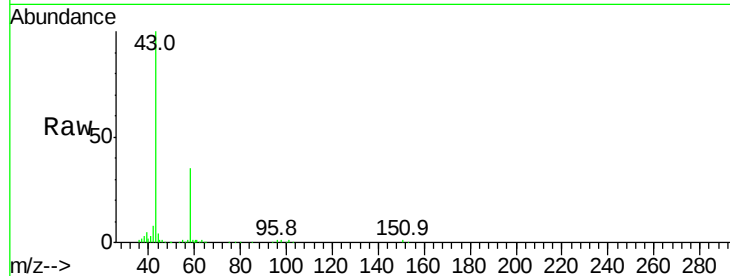
VSTD05064

Tgt Ion: 43 Resp: 98624

Ion Ratio Lower Upper

43 100

58 31.7 0.0 64.6



Abundance Ion 43.00 (42.70 to 43.70): VV010059.D (-334) (-)

Ion 58.00 (57.70 to 58.70): VV010059.D (-334) (-)

2.20

60000

50000

40000

30000

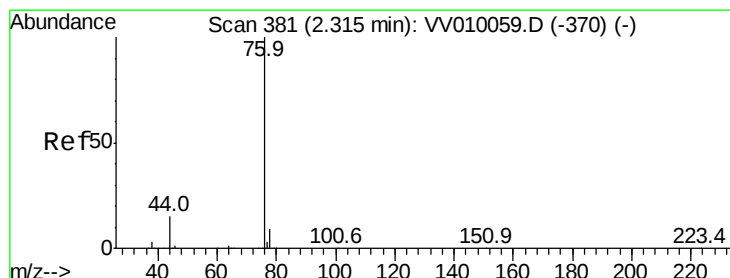
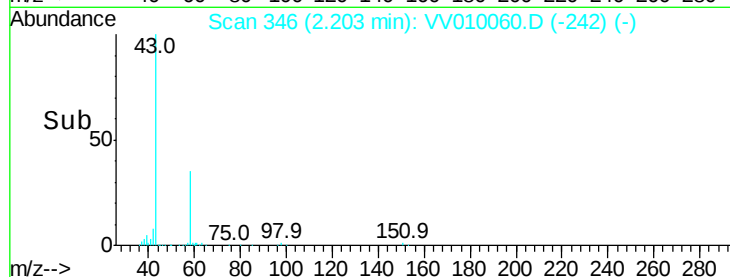
20000

10000

0

2.15 2.20 2.25

Time-->



#14

Carbon disulfide

Concen: 45.664 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VV010060.D

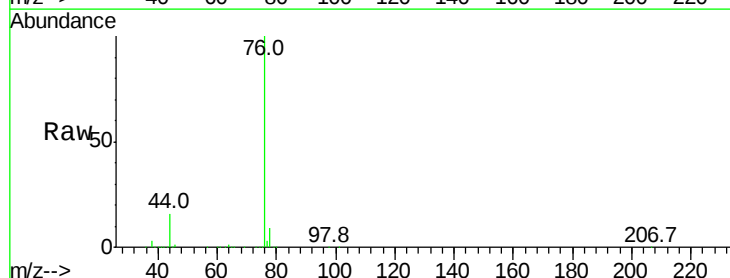
Acq: 02 Apr 2019 14:05

Tgt Ion: 76 Resp: 407807

Ion Ratio Lower Upper

76 100

78 9.3 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VV010059.D (-370) (-)

Ion 78.00 (77.70 to 78.70): VV010059.D (-370) (-)

2.32

300000

250000

200000

150000

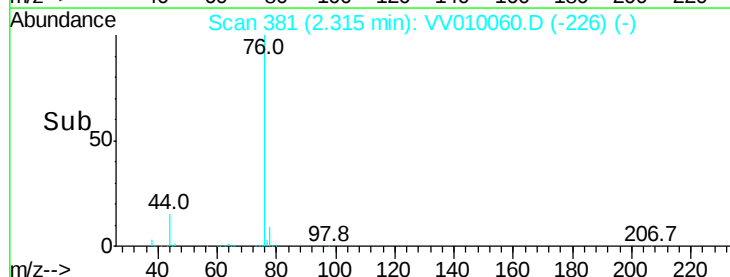
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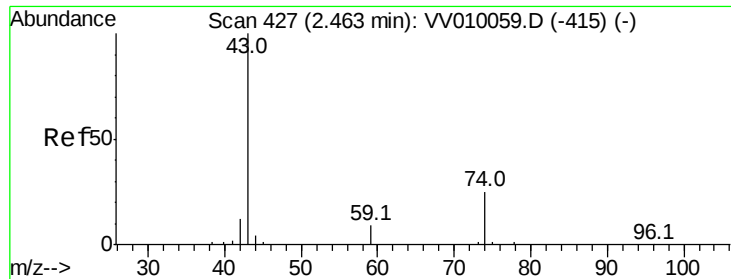
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0

2.25 2.30 2.35 2.40

Time-->

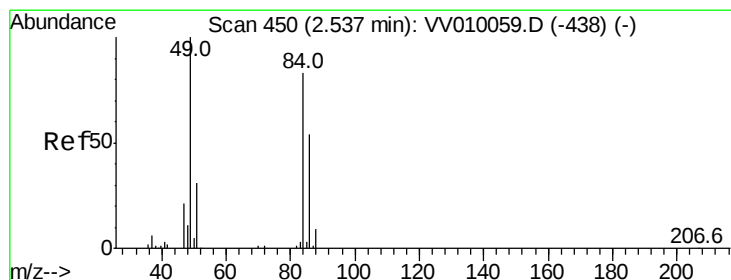
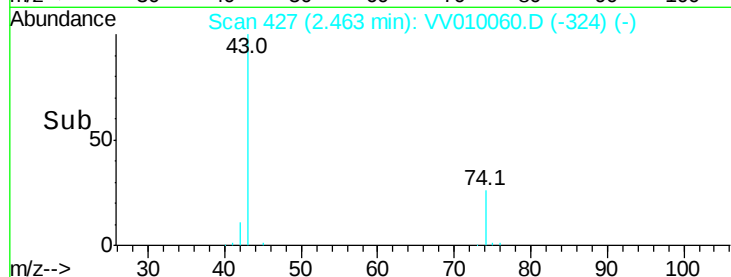
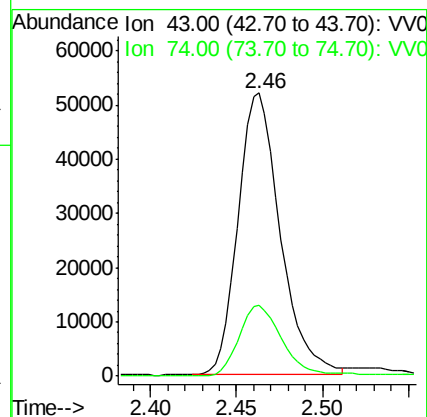
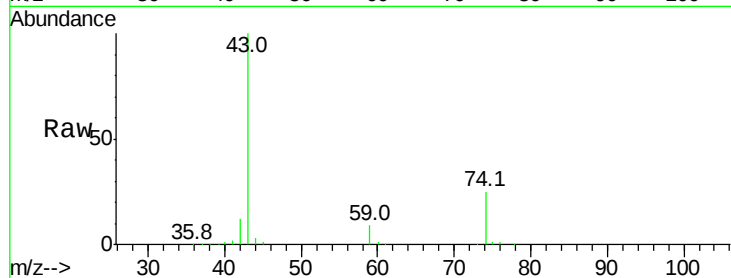




#15
Methyl Acetate
Concen: 45.830 ug/L
RT: 2.46 min Scan# 427
Delta R.T. -0.00 min
Lab File: VV010060.D
Acq: 02 Apr 2019 14:05

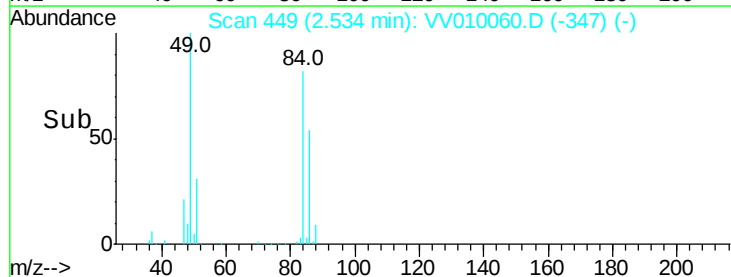
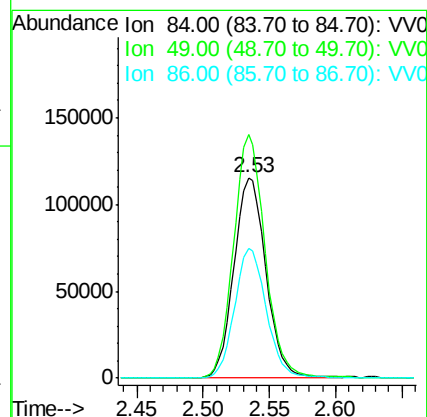
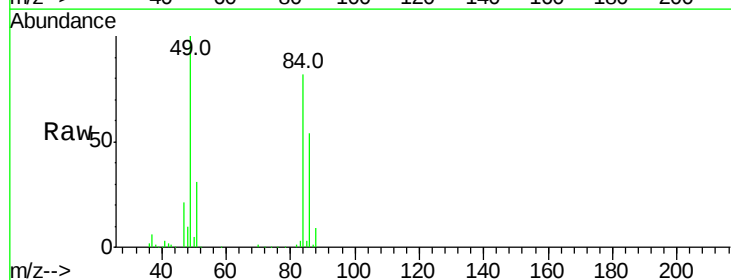
Instrument :
MSVOA_V
ClientSampled :
VSTD05064

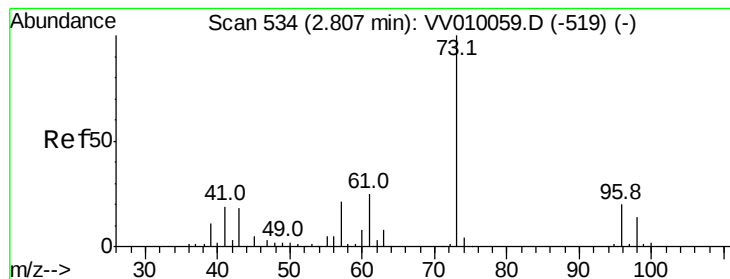
Tgt Ion: 43 Resp: 88221
Ion Ratio Lower Upper
43 100
74 25.4 20.0 30.0



#16
Methylene chloride
Concen: 37.020 ug/L
RT: 2.53 min Scan# 449
Delta R.T. -0.00 min
Lab File: VV010060.D
Acq: 02 Apr 2019 14:05

Tgt Ion: 84 Resp: 194576
Ion Ratio Lower Upper
84 100
49 121.7 84.3 156.5
86 65.1 45.4 84.2





#17

Methyl tert-butyl Ether

Concen: 48.820 ug/L

RT: 2.80 min Scan# 533

Delta R.T. -0.00 min

Lab File: VV010060.D

Acq: 02 Apr 2019 14:05

Instrument :

MSVOA_V

ClientSampled :

VSTD05064

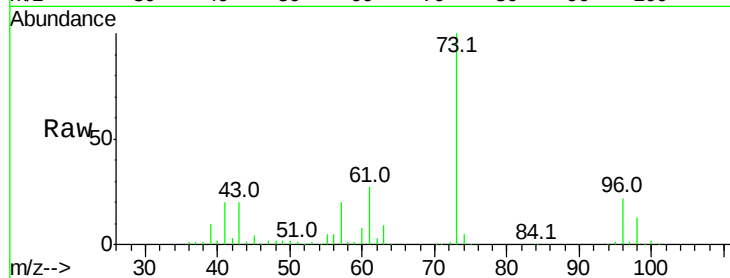
Tgt Ion: 73 Resp: 447690

Ion Ratio Lower Upper

73 100

43 19.1 15.5 23.3

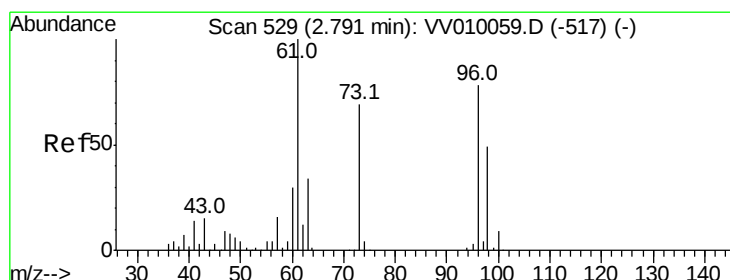
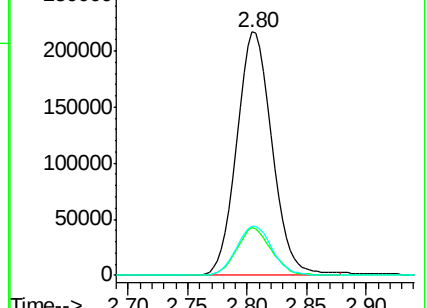
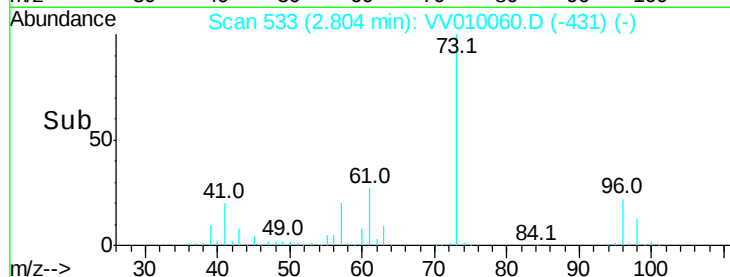
57 20.4 16.8 25.2



Abundance Ion 73.00 (72.70 to 73.70): VV0

Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0



#18

trans-1,2-Dichloroethene

Concen: 46.786 ug/L

RT: 2.79 min Scan# 528

Delta R.T. -0.00 min

Lab File: VV010060.D

Acq: 02 Apr 2019 14:05

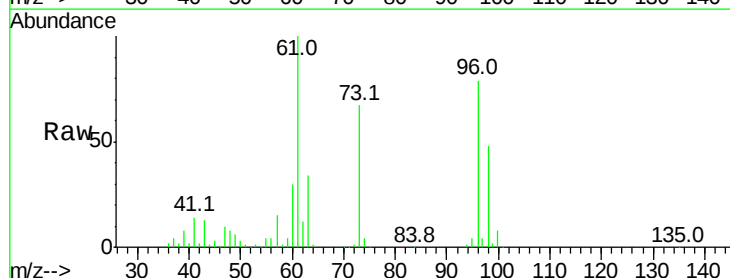
Tgt Ion: 96 Resp: 173103

Ion Ratio Lower Upper

96 100

61 126.0 90.0 167.2

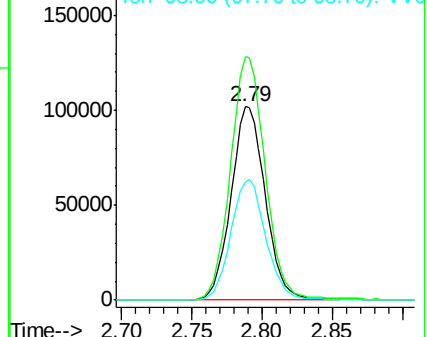
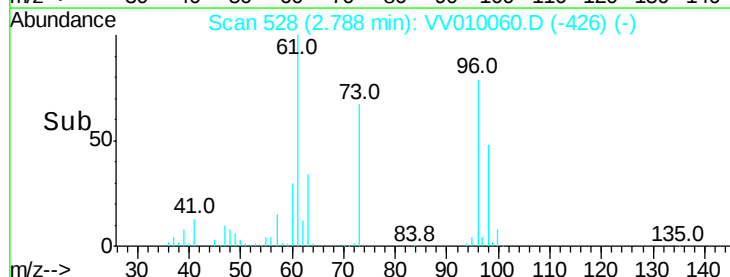
98 61.0 44.2 82.2

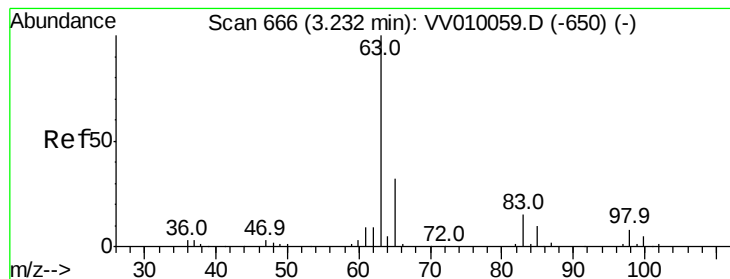


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#19

1,1-Dichloroethane

Concen: 46.724 ug/L

RT: 3.23 min Scan# 665

Delta R.T. -0.00 min

Lab File: VV010060.D

Acq: 02 Apr 2019 14:05

Instrument :

MSVOA_V

ClientSampleId :

VSTD05064

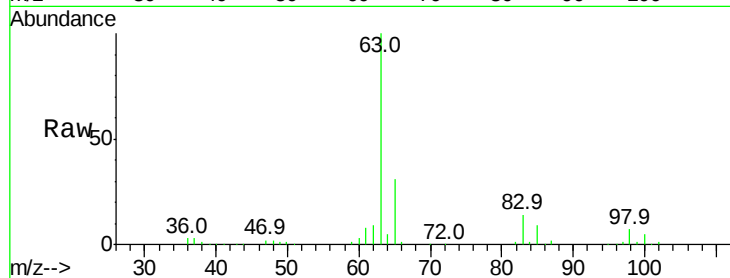
Tgt Ion: 63 Resp: 304095

Ion Ratio Lower Upper

63 100

65 30.6 22.3 41.3

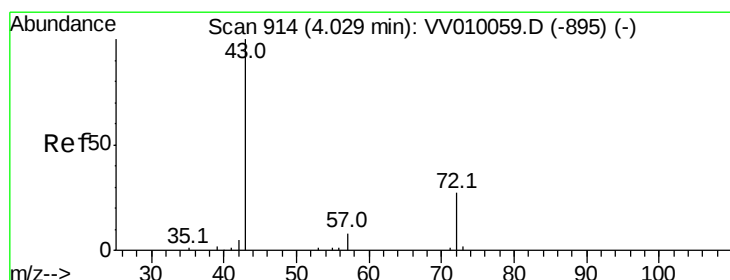
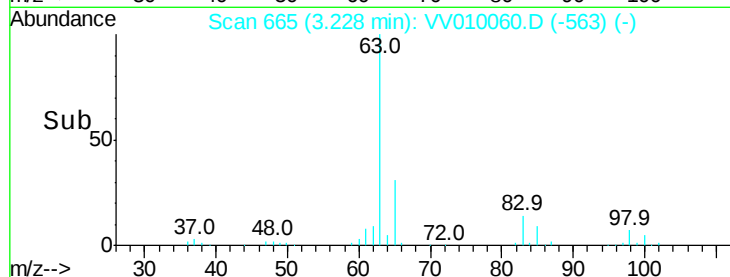
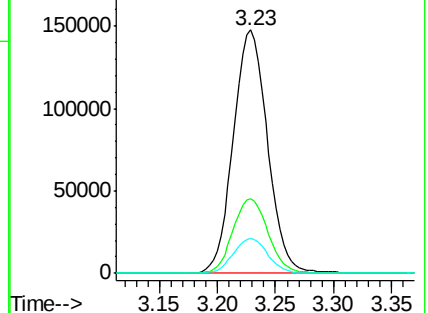
83 14.4 10.4 19.4



Abundance Ion 63.00 (62.70 to 63.70): VV010059.D (-650) (-)

Ion 65.00 (64.70 to 65.70): VV010059.D (-650) (-)

Ion 83.00 (82.70 to 83.70): VV010059.D (-650) (-)



#21

2-Butanone

Concen: 95.732 ug/L

RT: 4.03 min Scan# 913

Delta R.T. -0.00 min

Lab File: VV010060.D

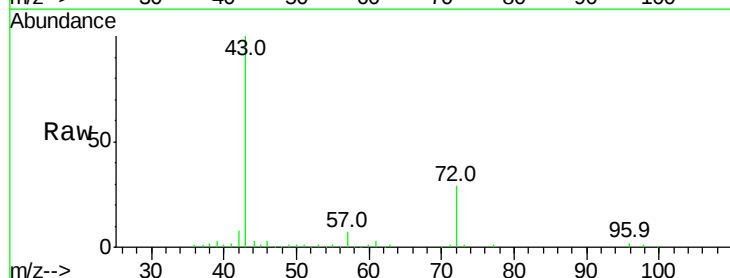
Acq: 02 Apr 2019 14:05

Tgt Ion: 43 Resp: 120728

Ion Ratio Lower Upper

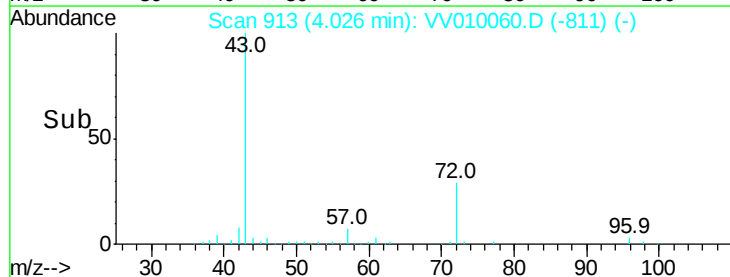
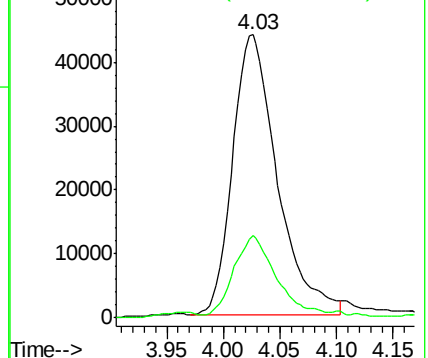
43 100

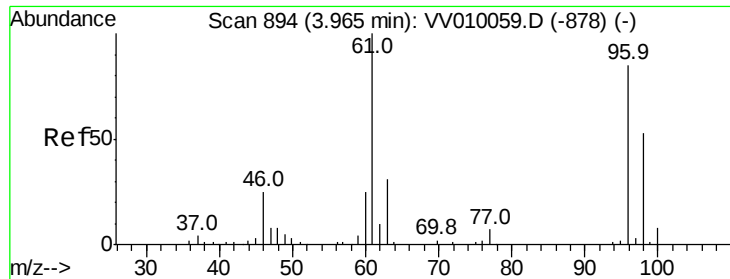
72 26.4 12.8 38.4



Abundance Ion 43.00 (42.70 to 43.70): VV010059.D (-895) (-)

Ion 72.00 (71.70 to 72.70): VV010059.D (-895) (-)



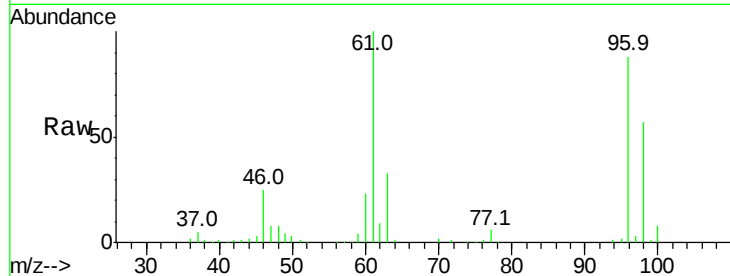


#22

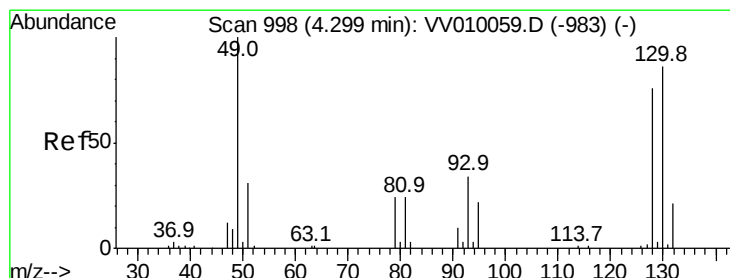
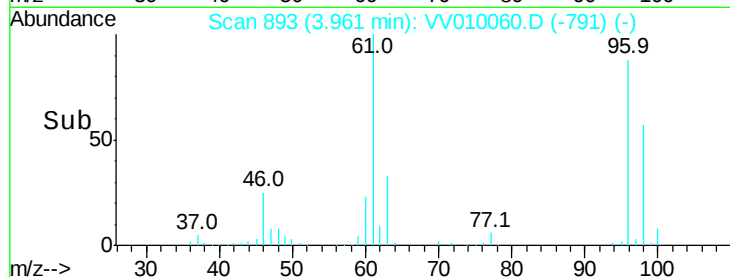
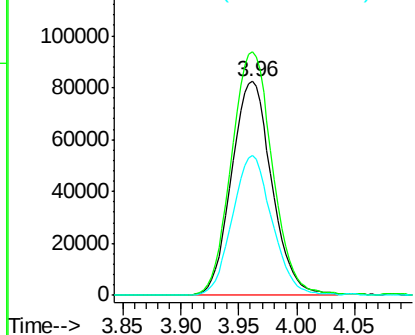
cis-1,2-Dichloroethene
Concen: 48.022 ug/L
RT: 3.96 min Scan# 893
Delta R.T. -0.00 min
Lab File: VV010060.D
Acq: 02 Apr 2019 14:05

Instrument :
MSVOA_V
ClientSampleId :
VSTD05064

Tgt Ion: 96 Resp: 199118
Ion Ratio Lower Upper
96 100
61 113.7 82.7 153.5
98 65.3 43.9 81.5



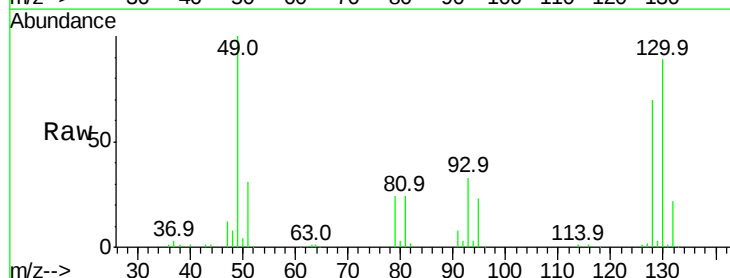
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



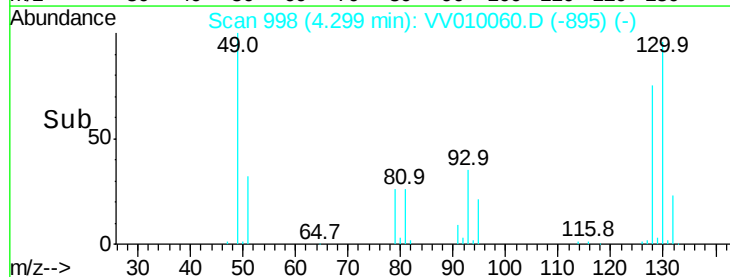
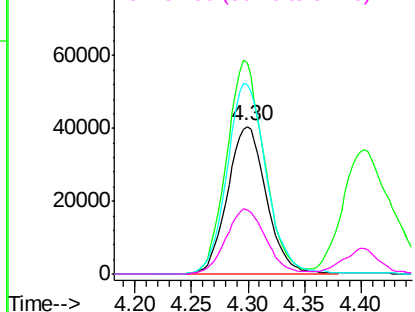
#23

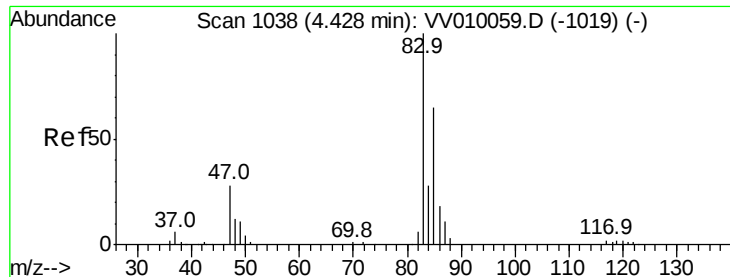
Bromochloromethane
Concen: 47.390 ug/L
RT: 4.30 min Scan# 998
Delta R.T. -0.00 min
Lab File: VV010060.D
Acq: 02 Apr 2019 14:05

Tgt Ion: 128 Resp: 97112
Ion Ratio Lower Upper
128 100
49 143.3 92.8 172.4
130 128.2 80.6 149.6
51 43.7 33.1 49.7



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

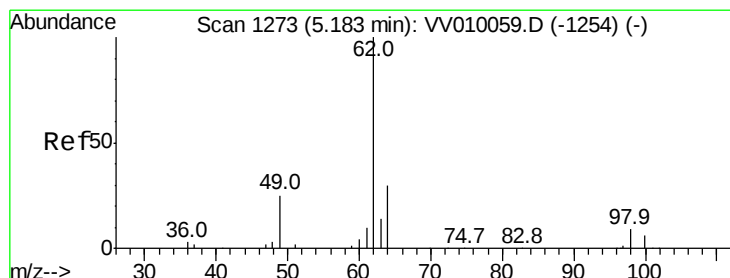
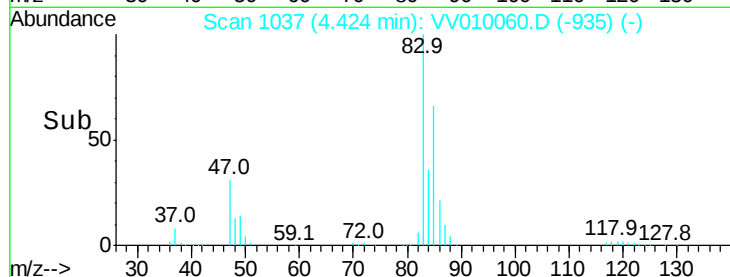
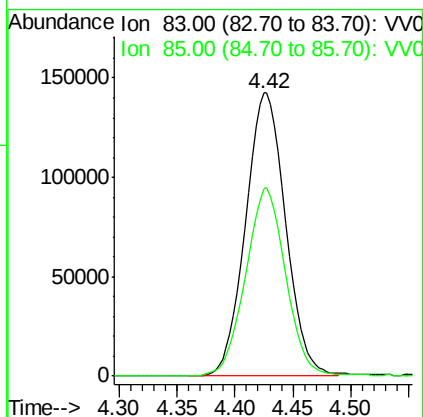
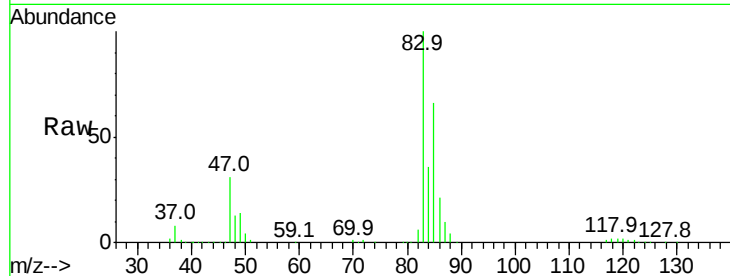




#25
Chloroform
Concen: 44.971 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VV010060.D
Acq: 02 Apr 2019 14:05

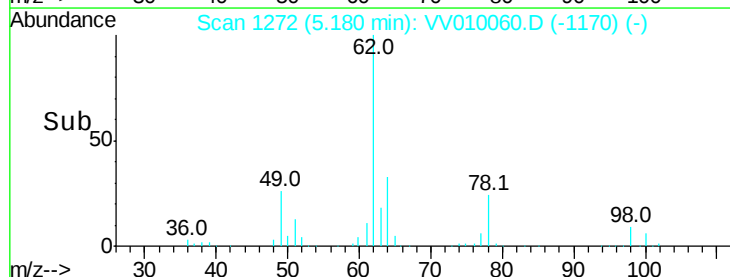
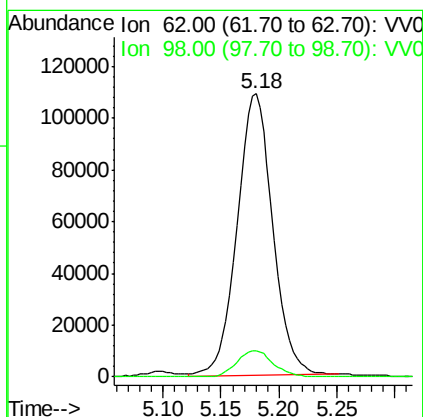
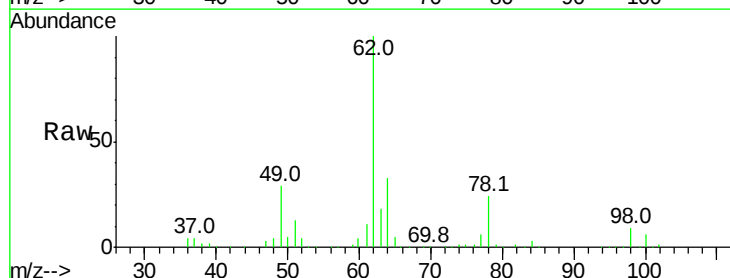
Instrument :
MSVOA_V
ClientSampleId :
VSTD05064

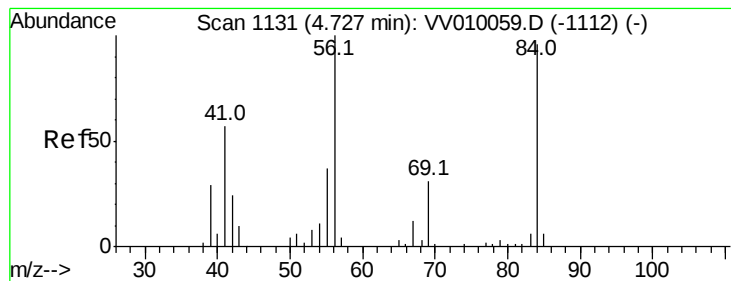
Tgt Ion: 83 Resp: 342857
Ion Ratio Lower Upper
83 100
85 66.7 46.4 86.2



#27
1,2-Dichloroethane
Concen: 47.952 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VV010060.D
Acq: 02 Apr 2019 14:05

Tgt Ion: 62 Resp: 232209
Ion Ratio Lower Upper
62 100
98 9.1 7.2 10.8





#30

Cyclohexane

Concen: 47.291 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VV010060.D

Acq: 02 Apr 2019 14:05

Instrument :

MSVOA_V

ClientSampleId :

VSTD05064

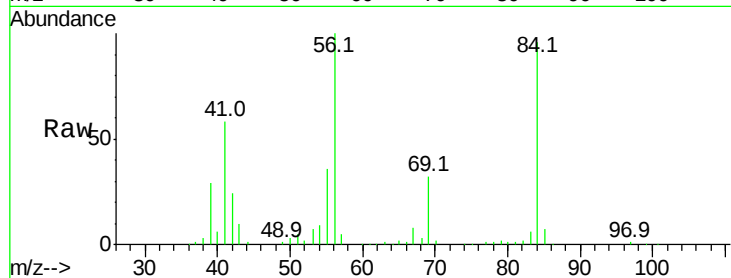
Tgt Ion: 56 Resp: 255298

Ion Ratio Lower Upper

56 100

69 31.5 25.1 37.7

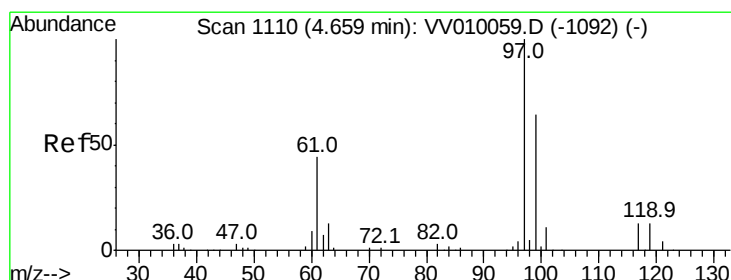
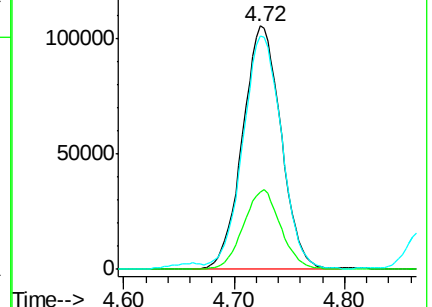
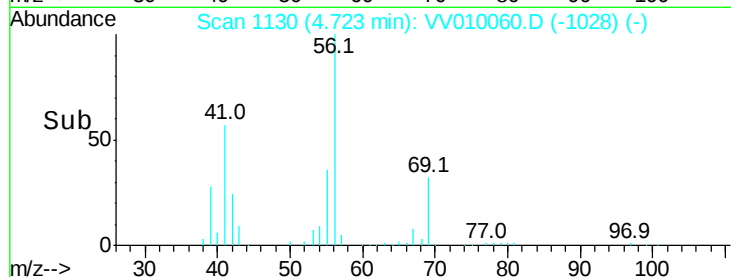
84 94.9 76.0 114.0



Abundance Ion 56.00 (55.70 to 56.70): VV010059.D (-1112) (-)

Ion 69.00 (68.70 to 69.70): VV010059.D (-1112) (-)

Ion 84.00 (83.70 to 84.70): VV010059.D (-1112) (-)



#31

1,1,1-Trichloroethane

Concen: 48.985 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VV010060.D

Acq: 02 Apr 2019 14:05

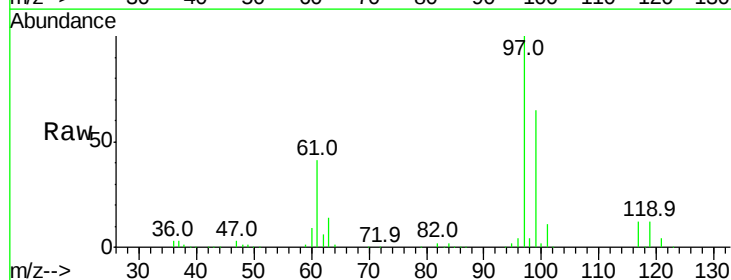
Tgt Ion: 97 Resp: 295744

Ion Ratio Lower Upper

97 100

99 65.1 52.4 78.6

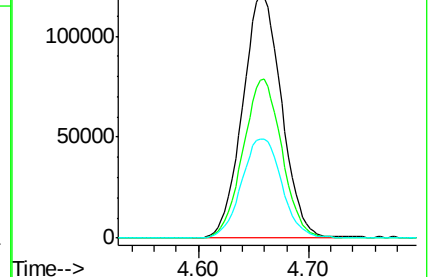
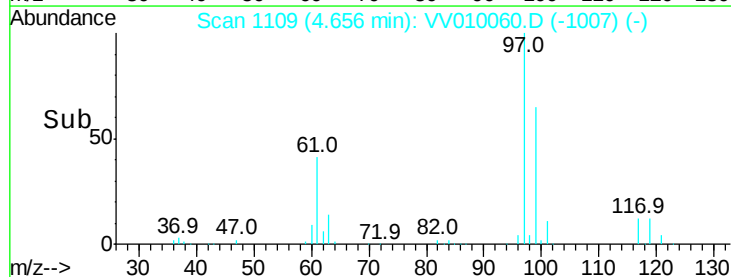
61 42.1 34.1 51.1

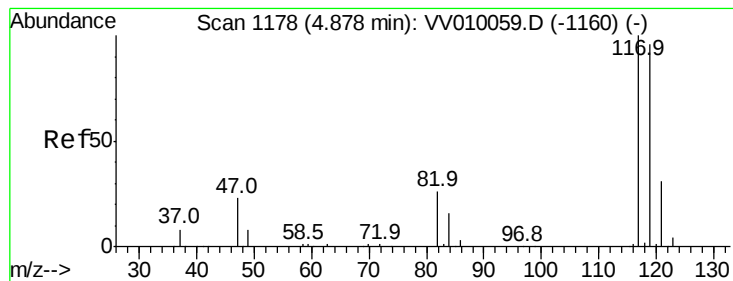


Abundance Ion 97.00 (96.70 to 97.70): VV010059.D (-1092) (-)

Ion 99.00 (98.70 to 99.70): VV010059.D (-1092) (-)

Ion 61.00 (60.70 to 61.70): VV010059.D (-1092) (-)





#32

Carbon tetrachloride

Concen: 49.132 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV010060.D

Acq: 02 Apr 2019 14:05

Instrument :

MSVOA_V

ClientSampleId :

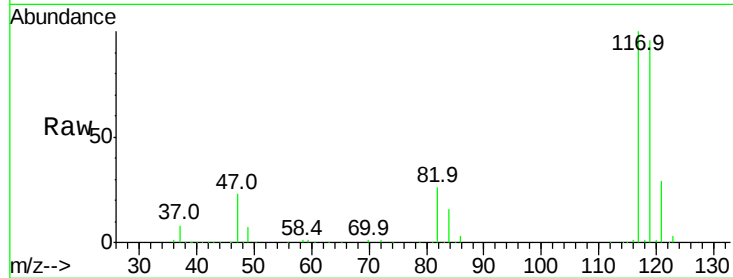
VSTD05064

Tgt Ion:117 Resp: 270150

Ion Ratio Lower Upper

117 100

119 97.9 76.1 114.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

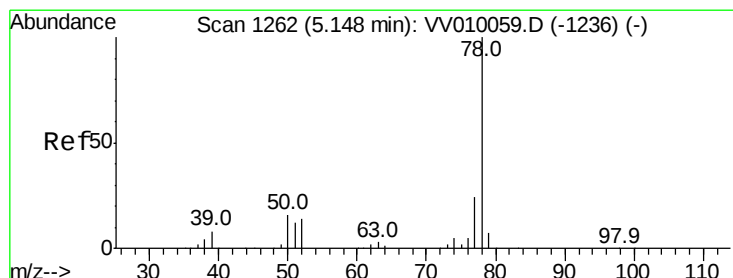
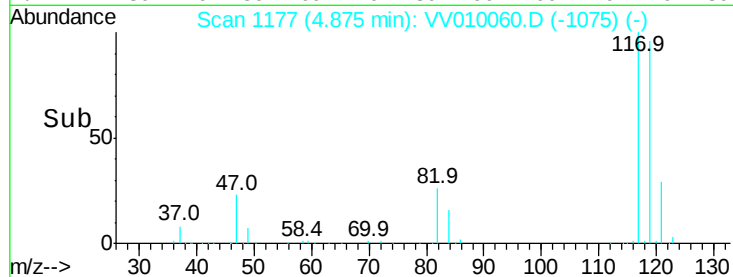
4.87

100000

50000

0

Time--> 4.75 4.80 4.85 4.90 4.95



#34

Benzene

Concen: 47.381 ug/L

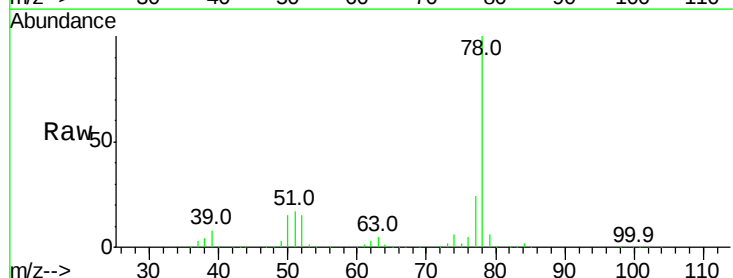
RT: 5.15 min Scan# 1262

Delta R.T. -0.00 min

Lab File: VV010060.D

Acq: 02 Apr 2019 14:05

Tgt Ion: 78 Resp: 701204



Abundance Ion 78.00 (77.70 to 78.70): VV0

5.15

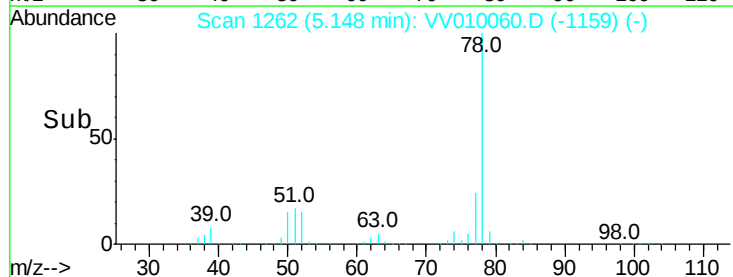
300000

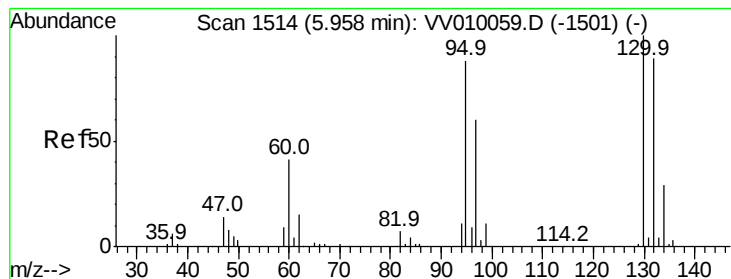
200000

100000

0

Time--> 5.00 5.10 5.20





#35

Trichloroethene

Concen: 46.210 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. -0.00 min

Lab File: VV010060.D

Acq: 02 Apr 2019 14:05

Instrument :

MSVOA_V

ClientSampleId :

VSTD05064

Tgt Ion: 95 Resp: 195597

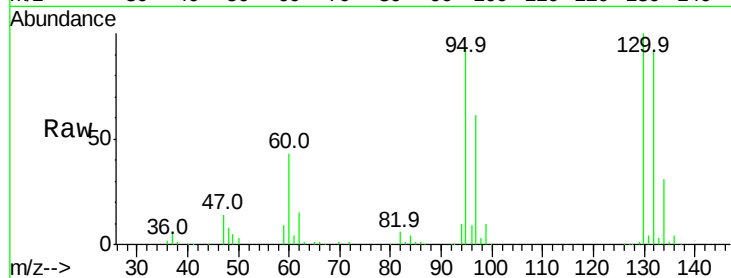
Ion Ratio Lower Upper

95 100

97 65.3 45.8 85.2

132 101.0 70.6 131.0

130 107.6 76.1 141.3

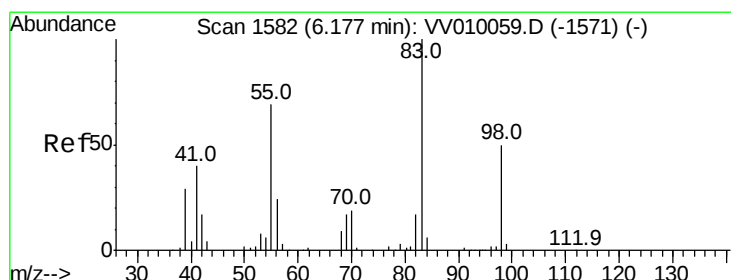
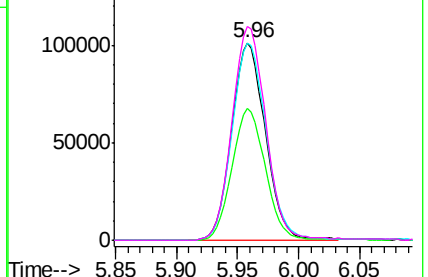
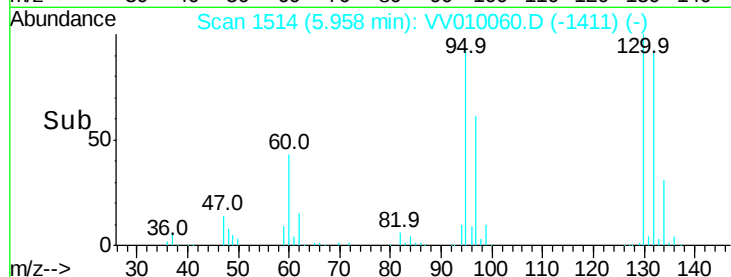


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 46.840 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. -0.00 min

Lab File: VV010060.D

Acq: 02 Apr 2019 14:05

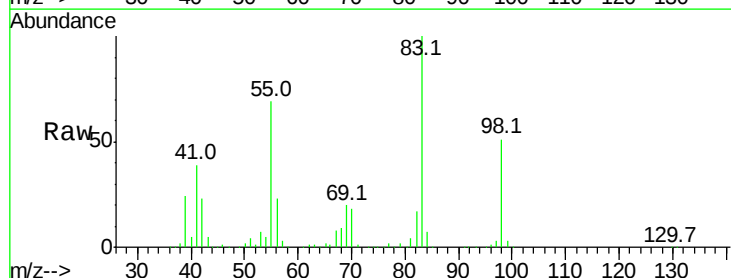
Tgt Ion: 83 Resp: 304981

Ion Ratio Lower Upper

83 100

55 68.7 56.3 84.5

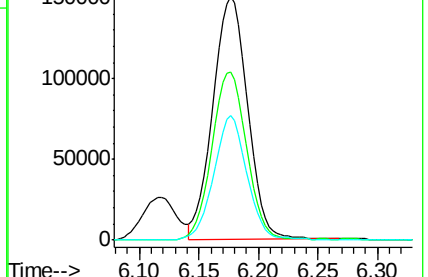
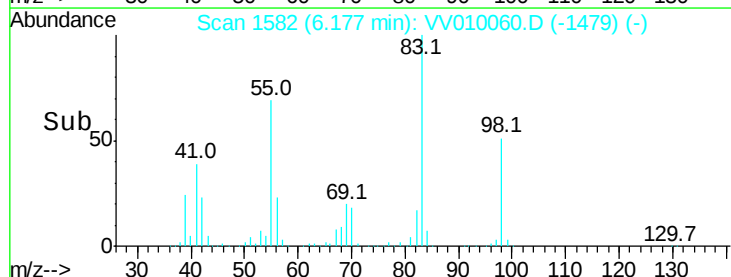
98 48.6 39.0 58.6

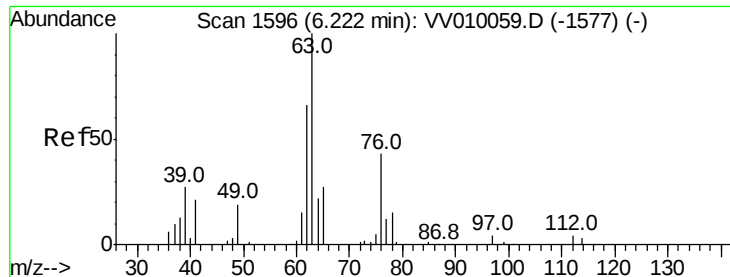


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

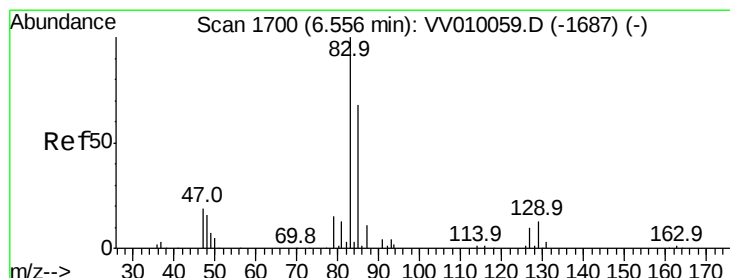
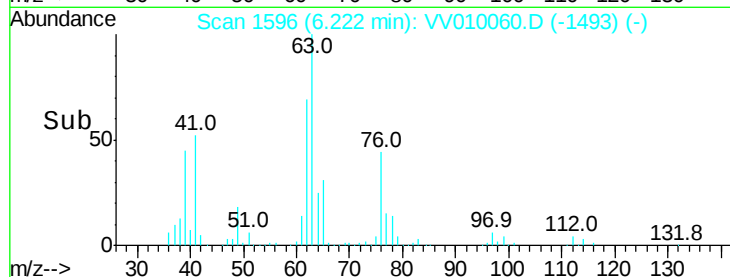
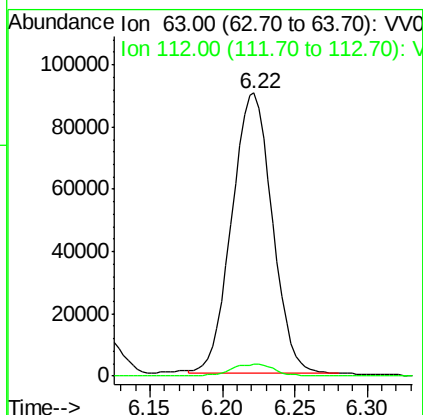
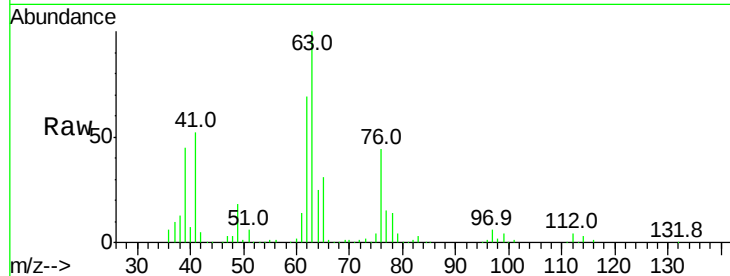




#40
 1,2-Dichloropropane
 Concen: 48.287 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. -0.00 min
 Lab File: VV010060.D
 Acq: 02 Apr 2019 14:05

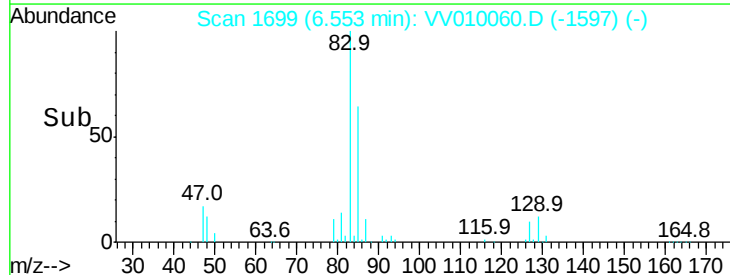
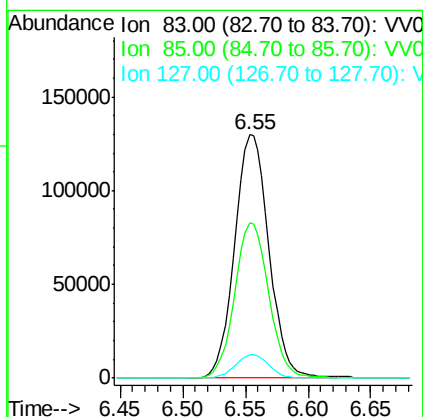
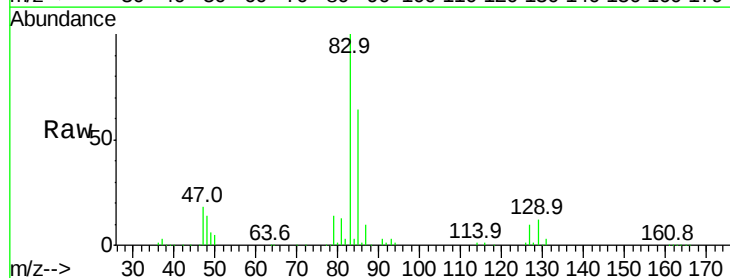
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05064

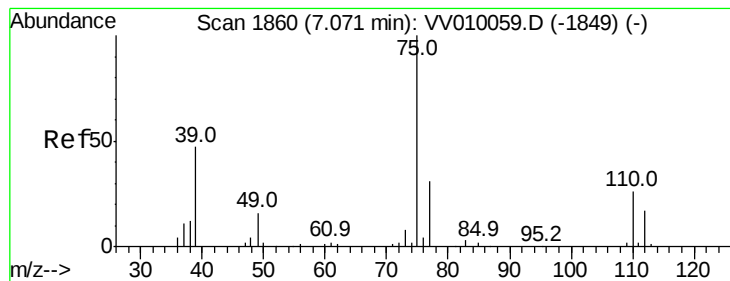
Tgt Ion: 63 Resp: 174858
 Ion Ratio Lower Upper
 63 100
 112 4.6 3.6 5.4



#41
 Bromodichloromethane
 Concen: 51.149 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. -0.00 min
 Lab File: VV010060.D
 Acq: 02 Apr 2019 14:05

Tgt Ion: 83 Resp: 246834
 Ion Ratio Lower Upper
 83 100
 85 63.6 47.5 88.3
 127 9.6 7.7 11.5



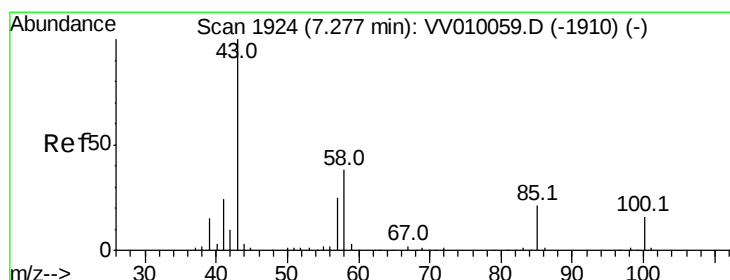
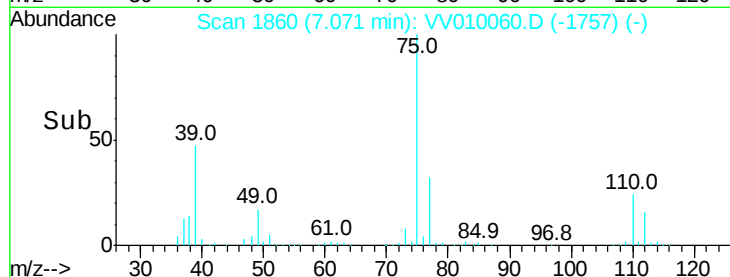
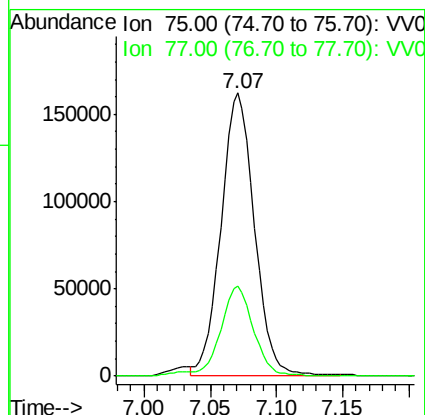
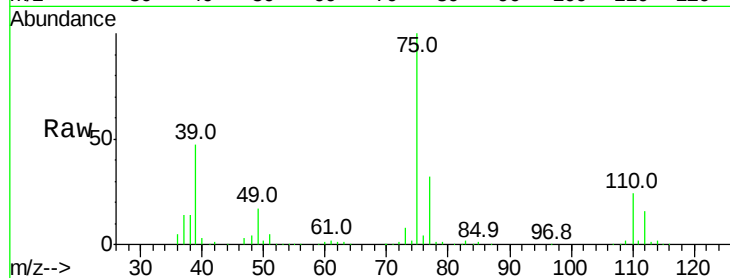


#42

cis-1,3-Dichloropropene
Concen: 51.135 ug/L
RT: 7.07 min Scan# 1860
Delta R.T. -0.00 min
Lab File: VV010060.D
Acq: 02 Apr 2019 14:05

Instrument :
MSVOA_V
ClientSampleId :
VSTD05064

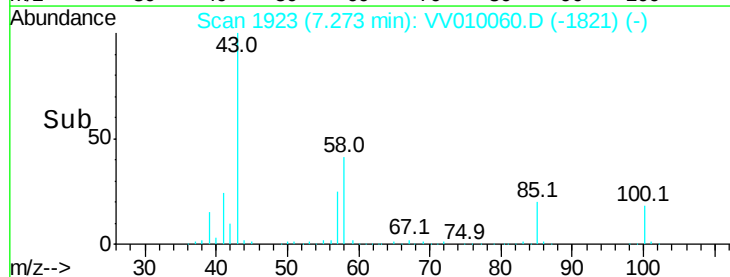
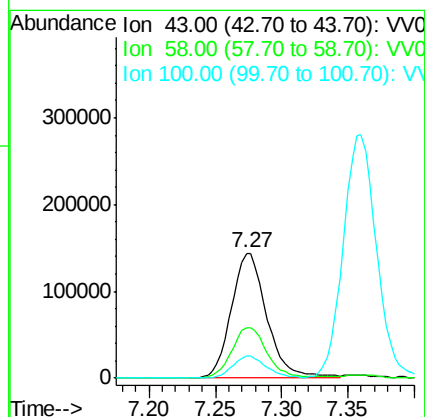
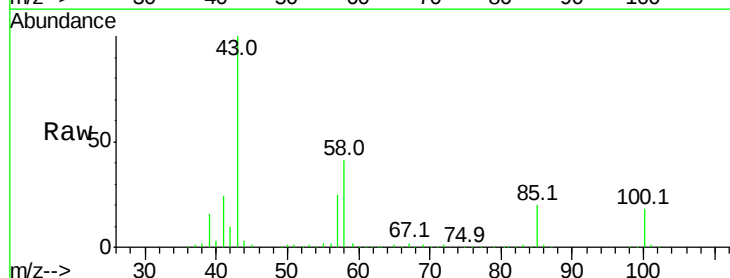
Tgt Ion: 75 Resp: 283273
Ion Ratio Lower Upper
75 100
77 32.0 22.1 41.1

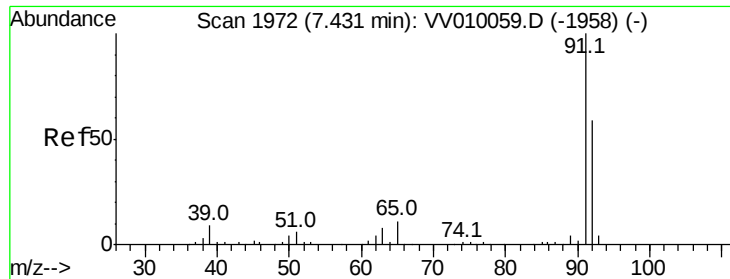


#43

4-Methyl-2-pentanone
Concen: 97.018 ug/L
RT: 7.27 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VV010060.D
Acq: 02 Apr 2019 14:05

Tgt Ion: 43 Resp: 268495
Ion Ratio Lower Upper
43 100
58 40.3 31.5 47.3
100 16.8 13.4 20.0





#44

Toluene

Concen: 47.844 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV010060.D

Acq: 02 Apr 2019 14:05

Instrument :

MSVOA_V

ClientSampleId :

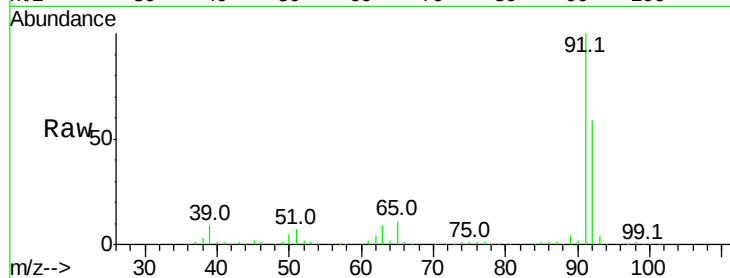
VSTD05064

Tgt Ion: 91 Resp: 802484

Ion Ratio Lower Upper

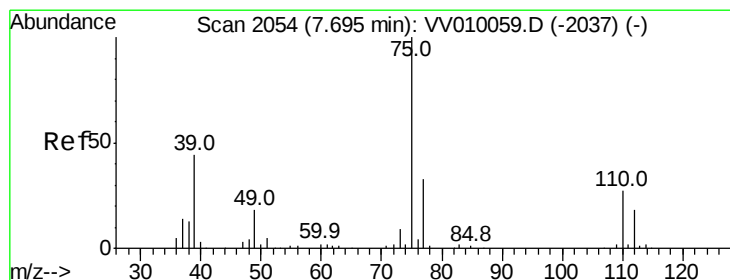
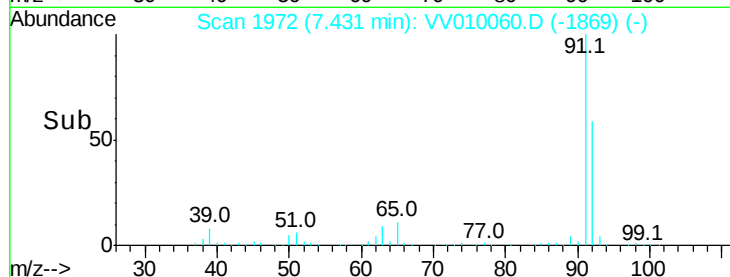
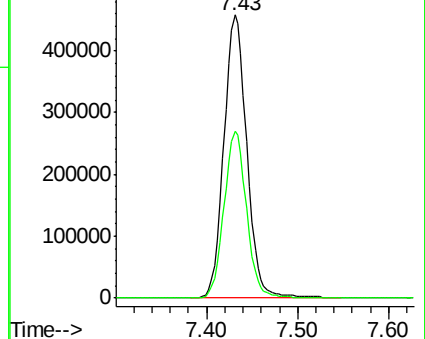
91 100

92 59.0 41.0 76.2



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0



#45

trans-1,3-Dichloropropene

Concen: 53.290 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV010060.D

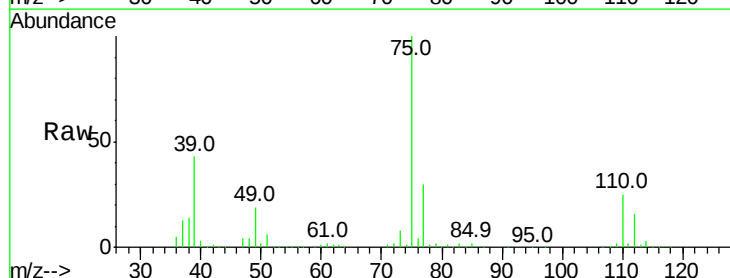
Acq: 02 Apr 2019 14:05

Tgt Ion: 75 Resp: 245477

Ion Ratio Lower Upper

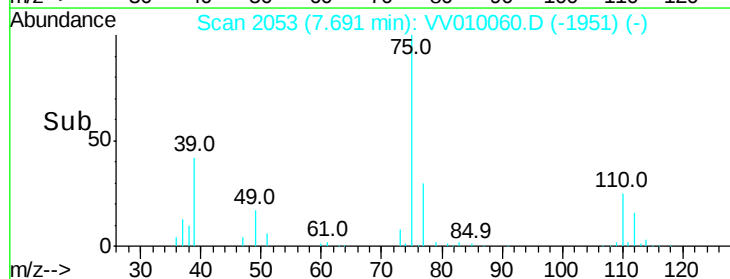
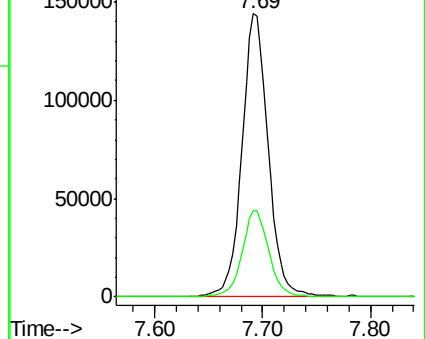
75 100

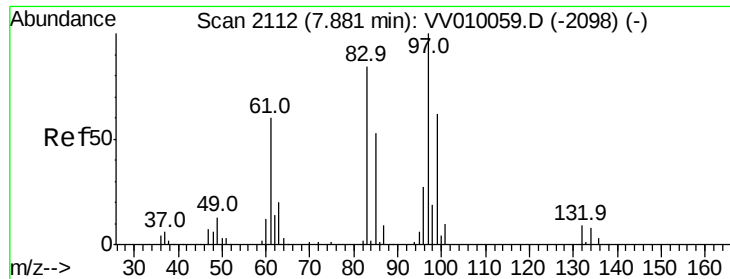
77 30.5 23.5 43.7



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

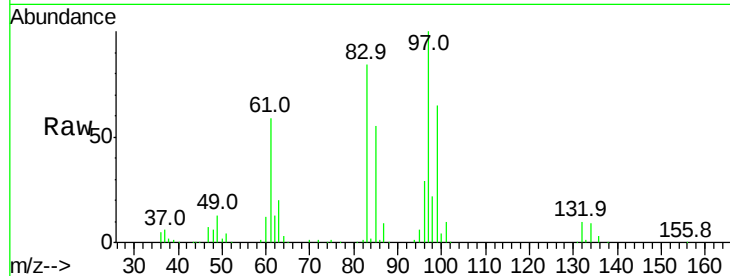




#46
 1,1,2-Trichloroethane
 Concen: 48.525 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VV010060.D
 Acq: 02 Apr 2019 14:05

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05064

Tgt Ion:	97	Resp:	159168
Ion	Ratio	Lower	Upper
97	100		
83	84.2	58.5	108.7
85	55.0	37.2	69.2
99	65.0	43.3	80.3

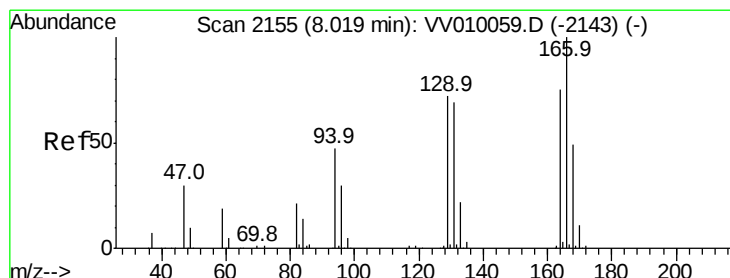
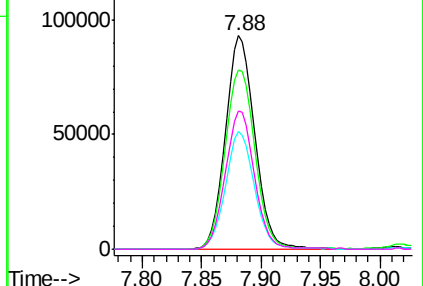
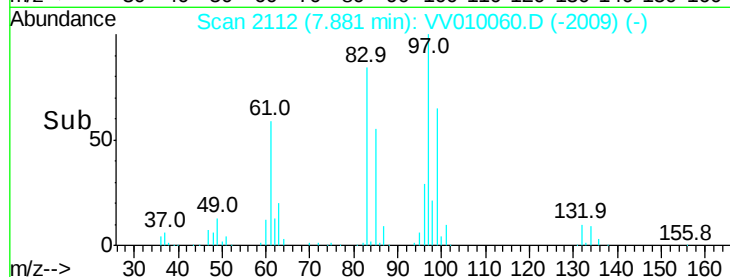


Abundance Ion 97.00 (96.70 to 97.70): VV010060.D (-2099) (-)

Ion 83.00 (82.70 to 83.70): VV010060.D (-2099) (-)

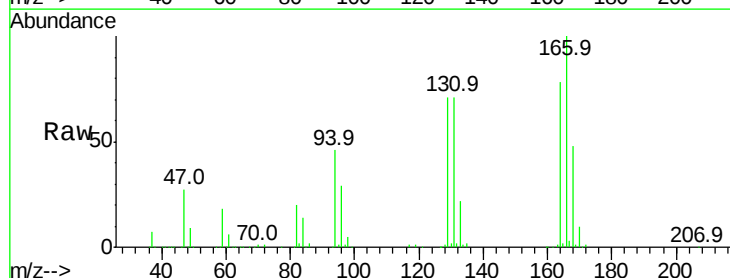
Ion 85.00 (84.70 to 85.70): VV010060.D (-2099) (-)

Ion 99.00 (98.70 to 99.70): VV010060.D (-2099) (-)



#47
 Tetrachloroethene
 Concen: 46.086 ug/L
 RT: 8.02 min Scan# 2155
 Delta R.T. -0.00 min
 Lab File: VV010060.D
 Acq: 02 Apr 2019 14:05

Tgt Ion:	164	Resp:	165587
Ion	Ratio	Lower	Upper
164	100		
129	90.9	67.8	125.8
131	90.9	65.2	121.0
166	128.3	93.8	174.2

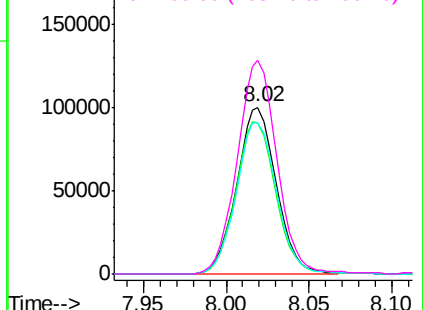
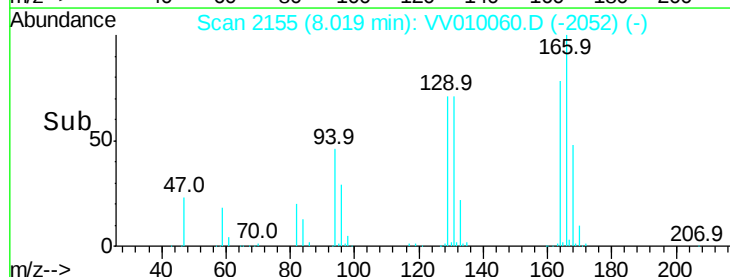


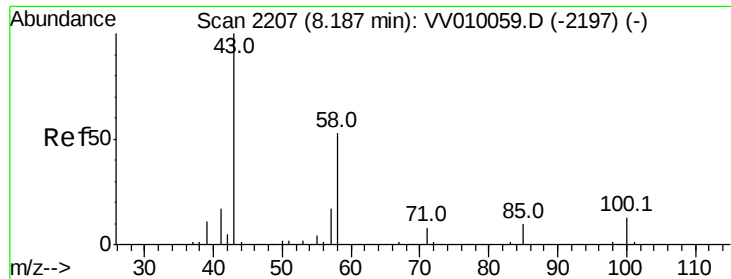
Abundance Ion 164.00 (163.70 to 164.70): VV010060.D (-2052) (-)

Ion 129.00 (128.70 to 129.70): VV010060.D (-2052) (-)

Ion 131.00 (130.70 to 131.70): VV010060.D (-2052) (-)

Ion 166.00 (165.70 to 166.70): VV010060.D (-2052) (-)

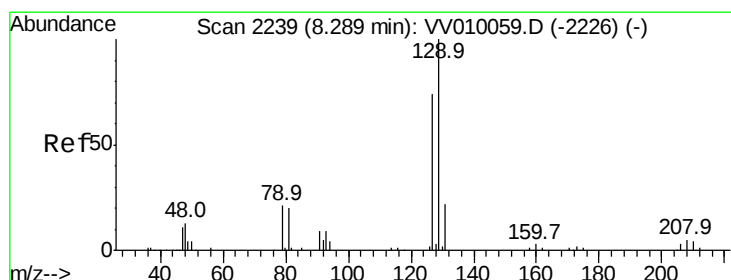
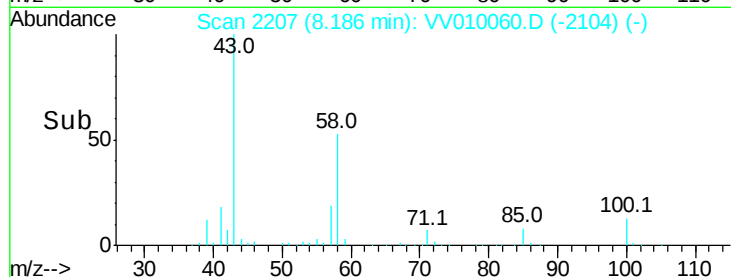
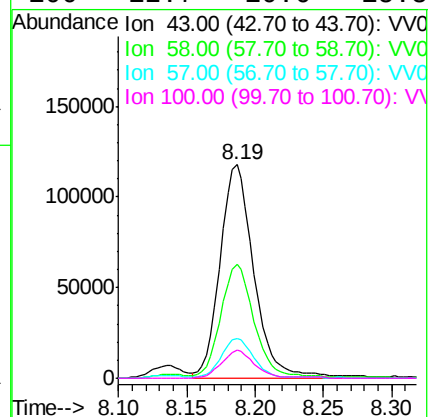
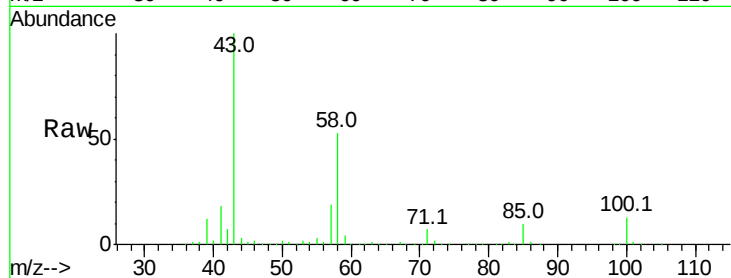




#49
2-Hexanone
Concen: 110.510 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. -0.00 min
Lab File: VV010060.D
Acq: 02 Apr 2019 14:05

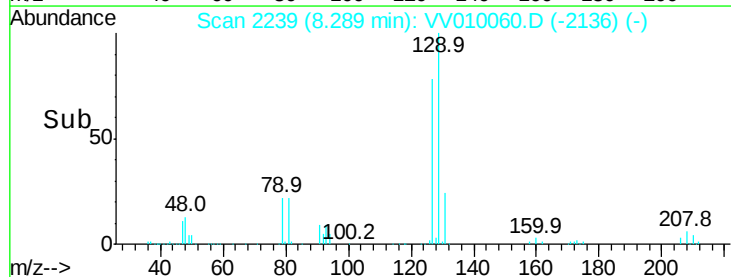
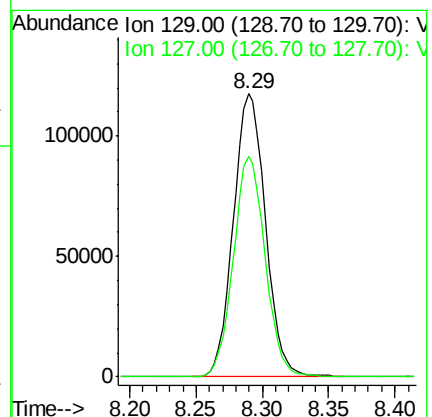
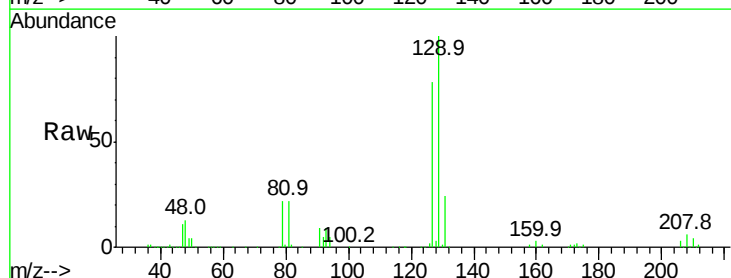
Instrument :
MSVOA_V
ClientSampleId :
VSTD05064

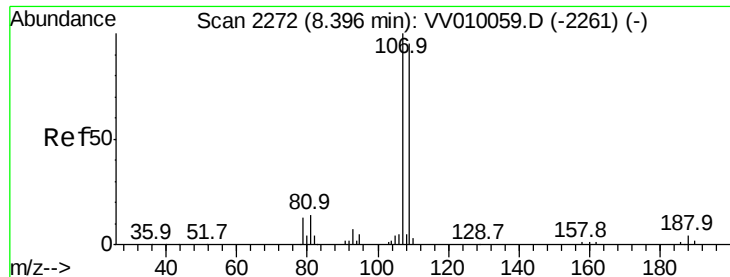
Tgt Ion: 43 Resp: 202822
Ion Ratio Lower Upper
43 100
58 52.5 44.3 66.5
57 18.0 13.8 20.8
100 12.7 10.6 15.8



#50
Dibromochloromethane
Concen: 52.185 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV010060.D
Acq: 02 Apr 2019 14:05

Tgt Ion: 129 Resp: 197960
Ion Ratio Lower Upper
129 100
127 78.1 52.1 96.7





#51

1,2-Dibromoethane

Concen: 48.815 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. -0.00 min

Lab File: VV010060.D

Acq: 02 Apr 2019 14:05

Instrument :

MSVOA_V

ClientSampleId :

VSTD05064

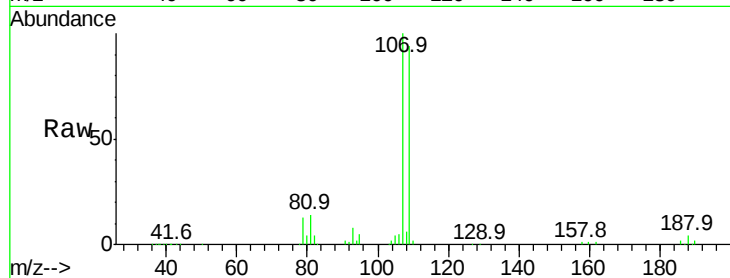
Tgt Ion:107 Resp: 160517

Ion Ratio Lower Upper

107 100

109 94.5 66.5 123.5

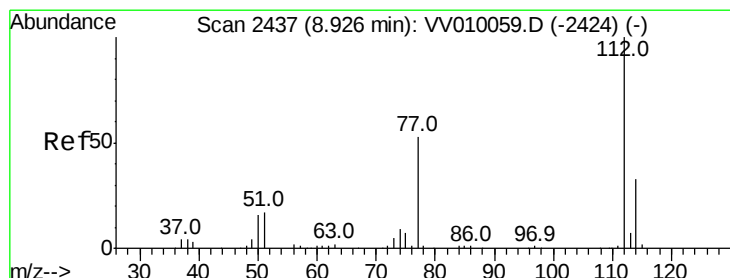
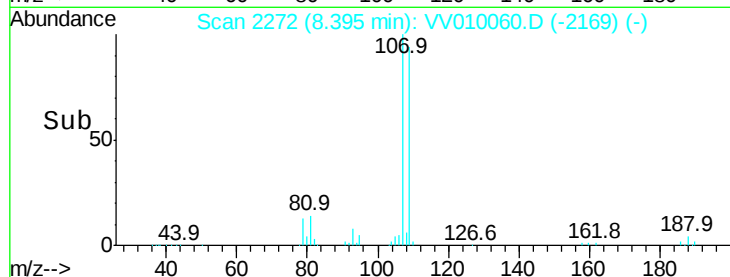
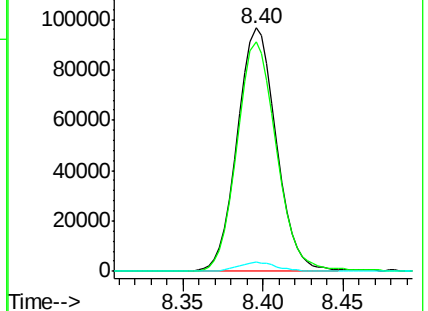
188 3.6 3.3 4.9



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 46.803 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. -0.00 min

Lab File: VV010060.D

Acq: 02 Apr 2019 14:05

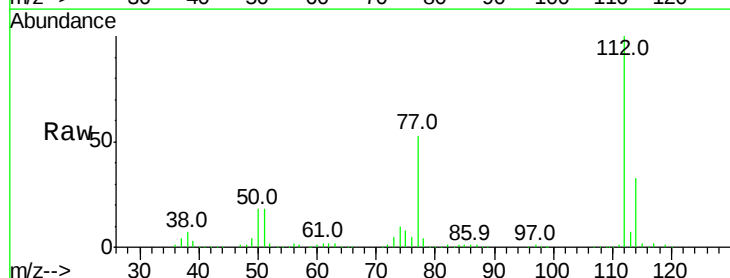
Tgt Ion:112 Resp: 540513

Ion Ratio Lower Upper

112 100

77 52.6 42.9 64.3

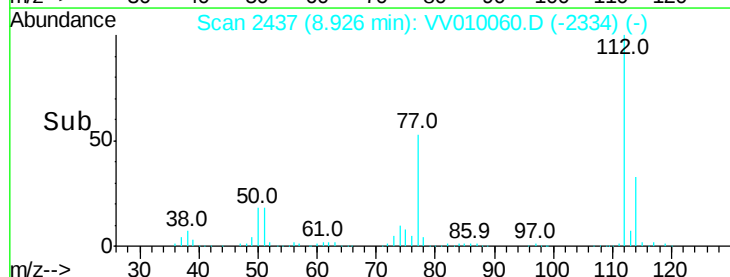
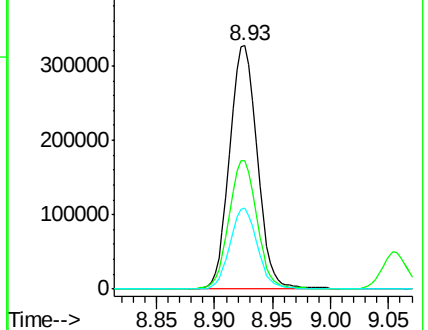
114 33.0 23.4 43.4

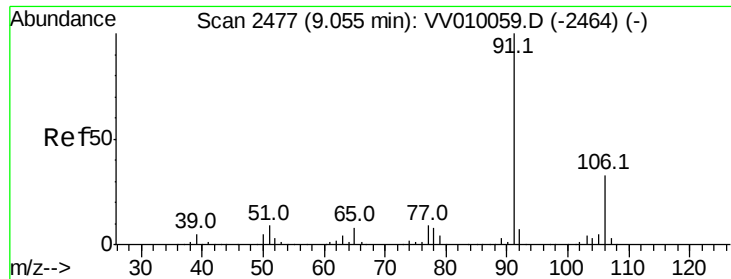


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V

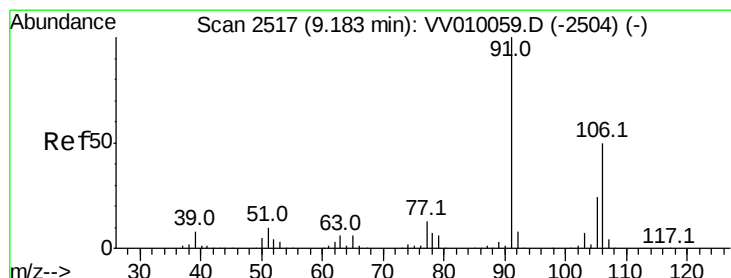
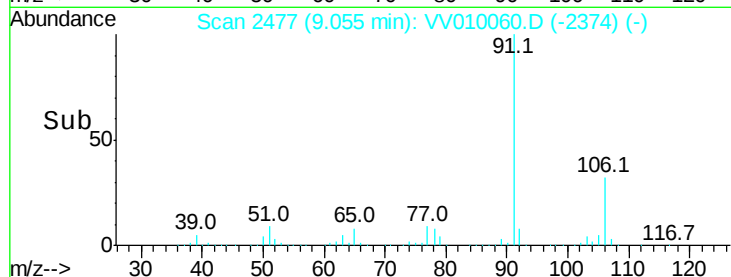
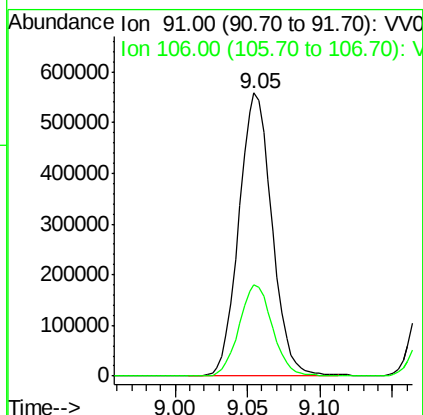
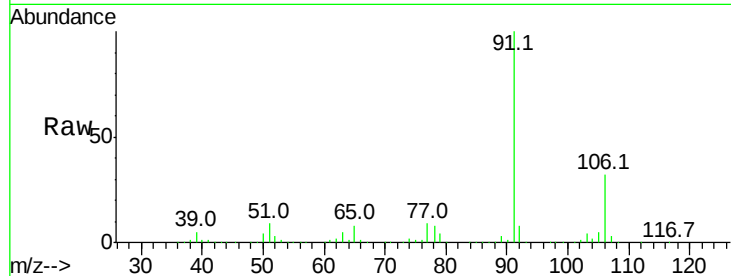




#53
Ethylbenzene
Concen: 47.734 ug/L
RT: 9.05 min Scan# 2477
Delta R.T. -0.00 min
Lab File: VV010060.D
Acq: 02 Apr 2019 14:05

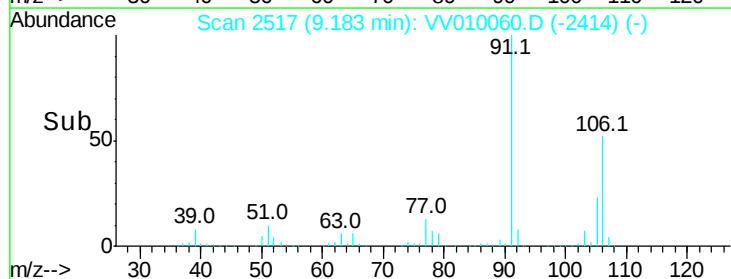
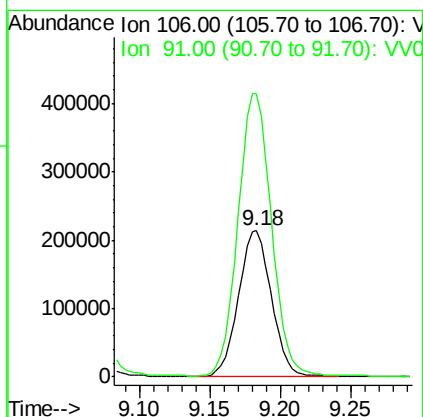
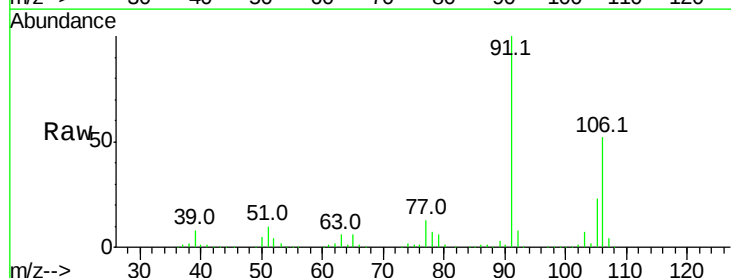
Instrument :
MSVOA_V
ClientSampleId :
VSTD05064

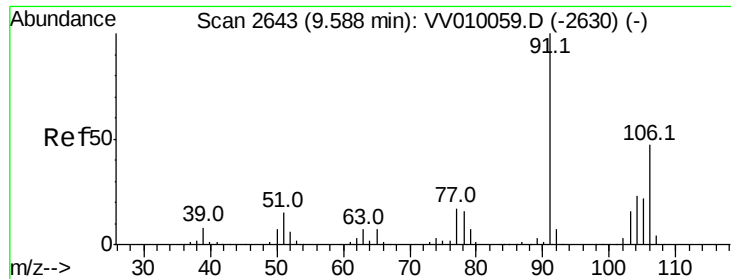
Tgt Ion: 91 Resp: 884660
Ion Ratio Lower Upper
91 100
106 32.3 23.1 42.9



#54
m,p-Xylene
Concen: 47.071 ug/L
RT: 9.18 min Scan# 2517
Delta R.T. -0.00 min
Lab File: VV010060.D
Acq: 02 Apr 2019 14:05

Tgt Ion: 106 Resp: 349776
Ion Ratio Lower Upper
106 100
91 194.0 139.3 258.7

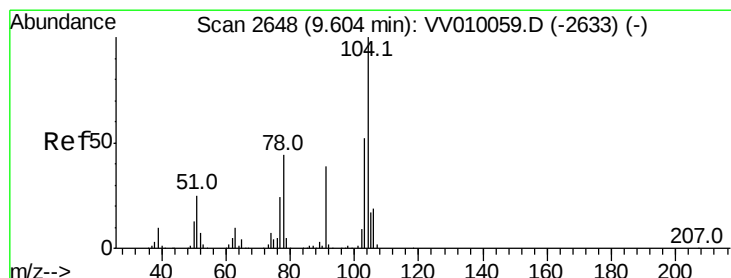
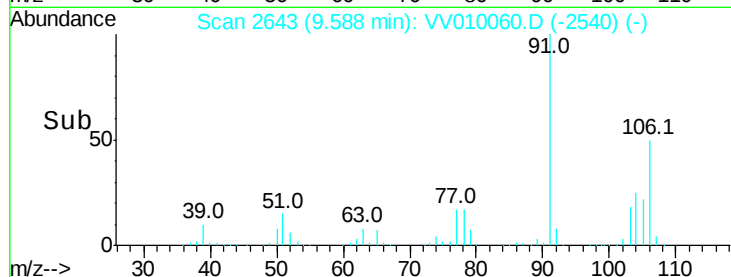
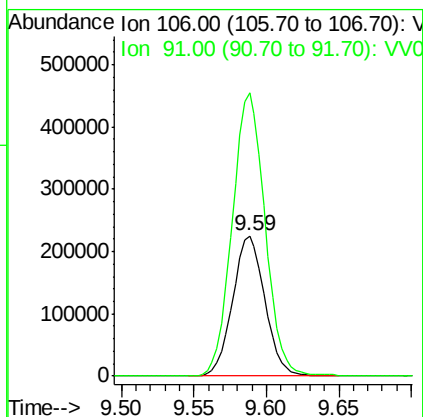
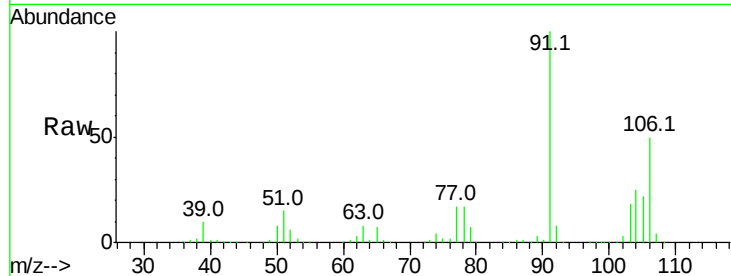




#55
o-xylene
Concen: 49.497 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. -0.00 min
Lab File: VV010060.D
Acq: 02 Apr 2019 14:05

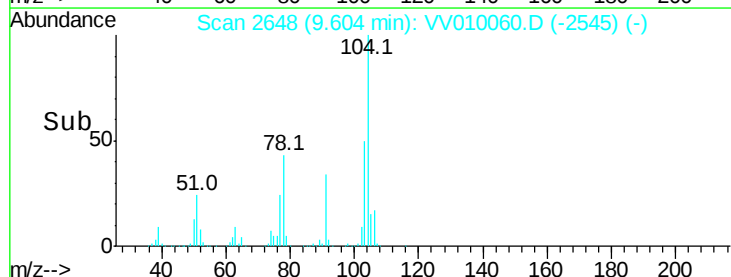
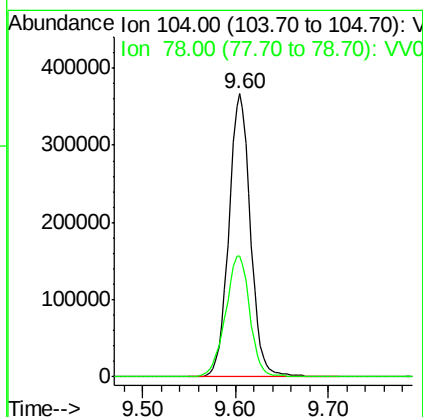
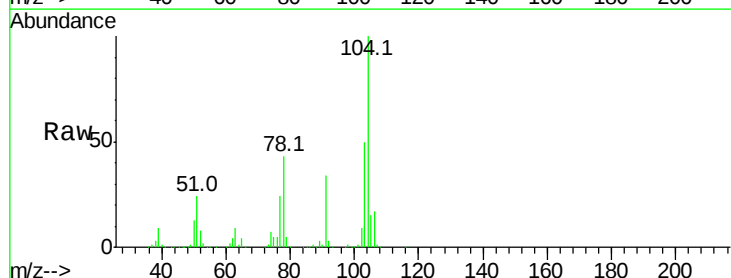
Instrument :
MSVOA_V
ClientSampleId :
VSTD05064

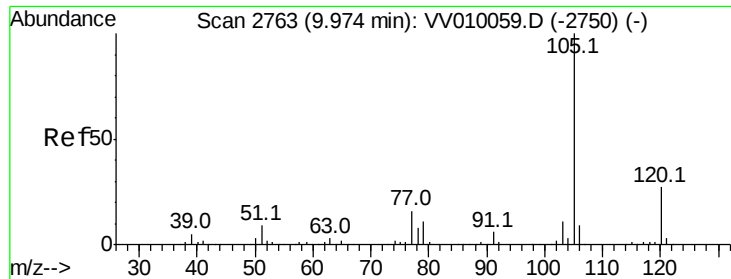
Tgt Ion:106 Resp: 347913
Ion Ratio Lower Upper
106 100
91 201.8 150.4 279.2



#56
Styrene
Concen: 50.437 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. -0.00 min
Lab File: VV010060.D
Acq: 02 Apr 2019 14:05

Tgt Ion:104 Resp: 593211
Ion Ratio Lower Upper
104 100
78 42.8 30.5 56.7





#57

Isopropylbenzene

Concen: 48.807 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV010060.D

Acq: 02 Apr 2019 14:05

Instrument :

MSVOA_V

ClientSampleId :

VSTD05064

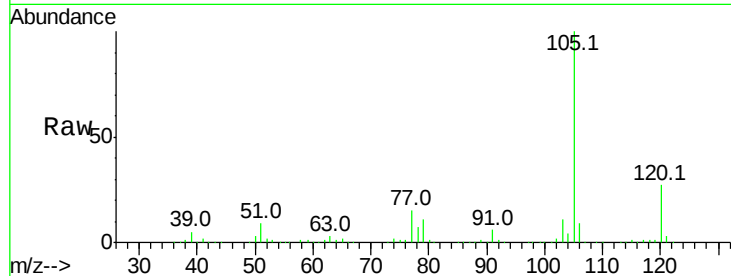
Tgt Ion:105 Resp: 913992

Ion Ratio Lower Upper

105 100

120 27.4 21.5 32.3

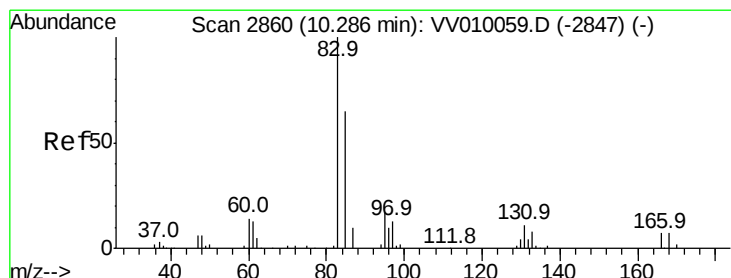
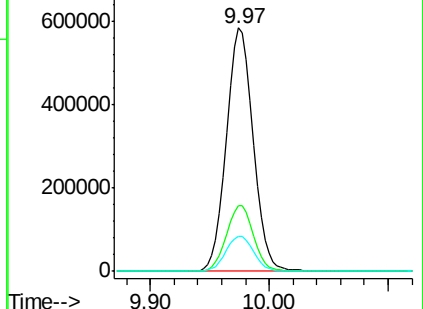
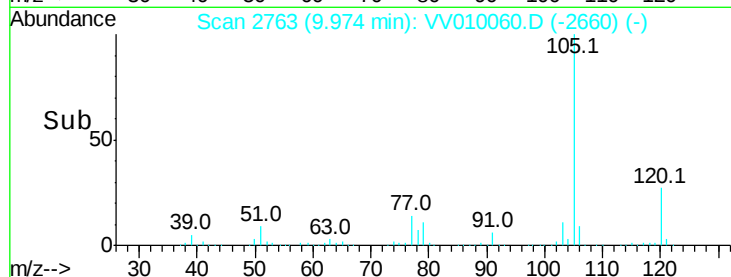
77 15.0 12.4 18.6



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: 49.503 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV010060.D

Acq: 02 Apr 2019 14:05

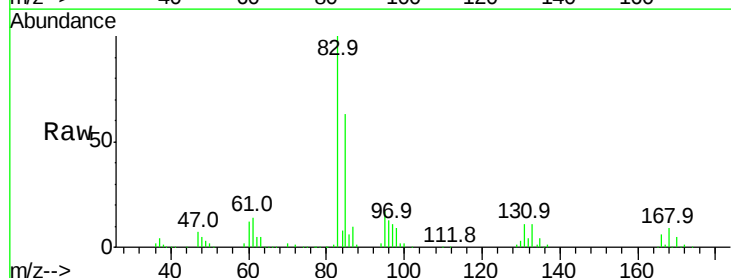
Tgt Ion: 83 Resp: 210058

Ion Ratio Lower Upper

83 100

85 63.3 46.1 85.7

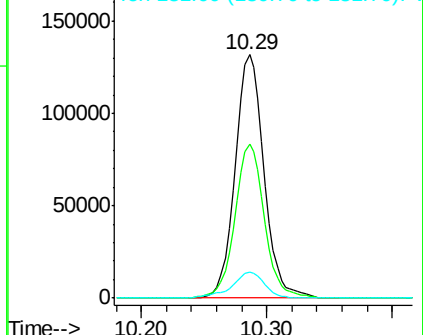
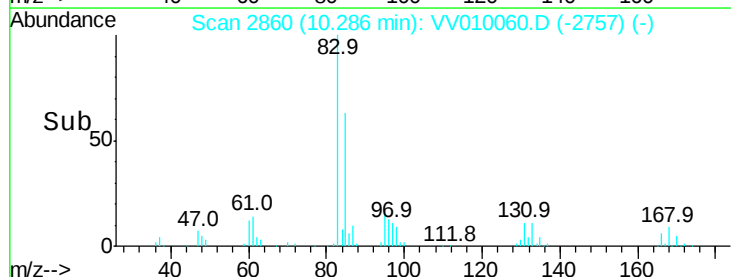
131 10.6 9.0 13.4

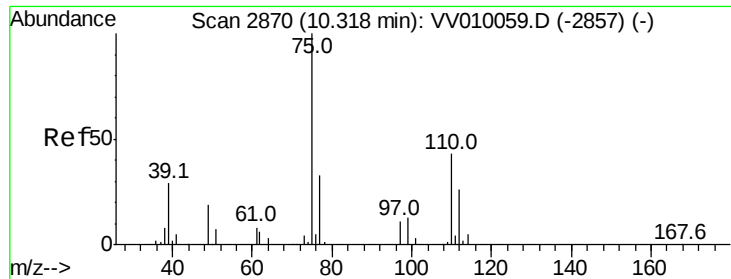


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 47.648 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. -0.00 min

Lab File: VV010060.D

Acq: 02 Apr 2019 14:05

Instrument :

MSVOA_V

ClientSampleId :

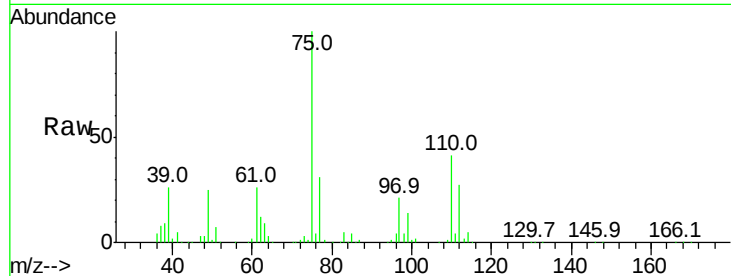
VSTD05064

Tgt Ion: 75 Resp: 148361

Ion Ratio Lower Upper

75 100

77 31.6 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VV010059.D (-2857) (-)

Ion 77.00 (76.70 to 77.70): VV010059.D (-2857) (-)

10.32

100000

80000

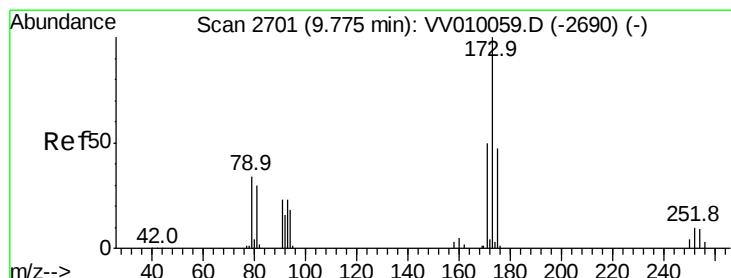
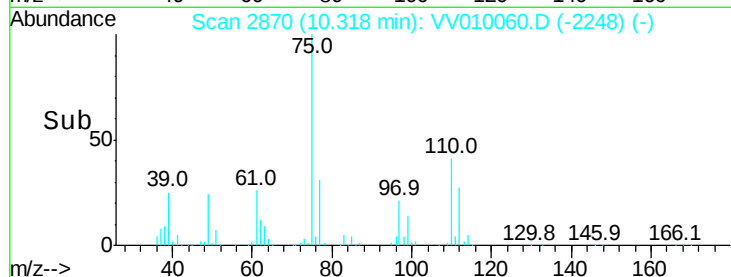
60000

40000

20000

0

Time--> 10.25 10.30 10.35 10.40



#62

Bromoform

Concen: 54.858 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VV010060.D

Acq: 02 Apr 2019 14:05

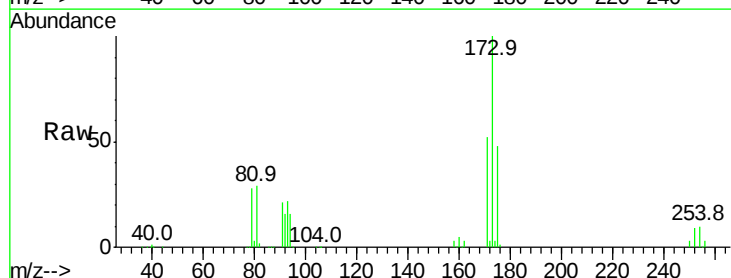
Tgt Ion: 173 Resp: 116335

Ion Ratio Lower Upper

173 100

175 49.0 38.7 58.1

254 9.1 6.7 10.1



Abundance Ion 173.00 (172.70 to 173.70): VV010059.D (-2690) (-)

Ion 175.00 (174.70 to 175.70): VV010059.D (-2690) (-)

Ion 254.00 (253.70 to 254.70): VV010059.D (-2690) (-)

9.78

80000

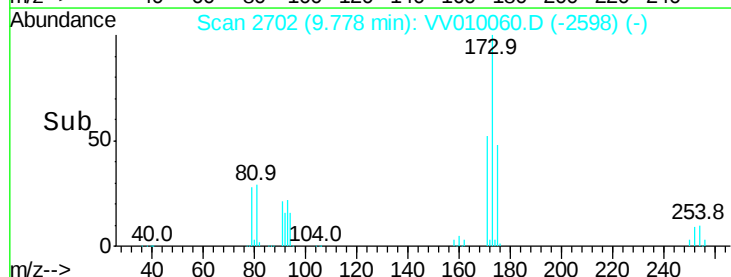
60000

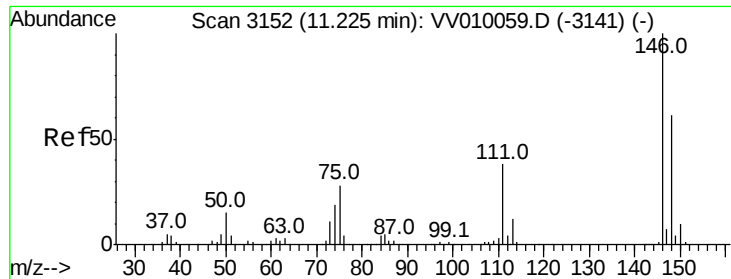
40000

20000

0

Time--> 9.70 9.75 9.80 9.85

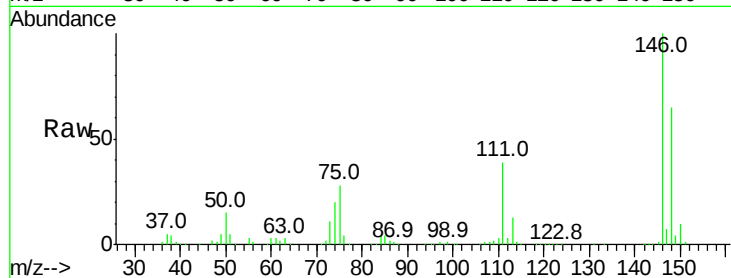




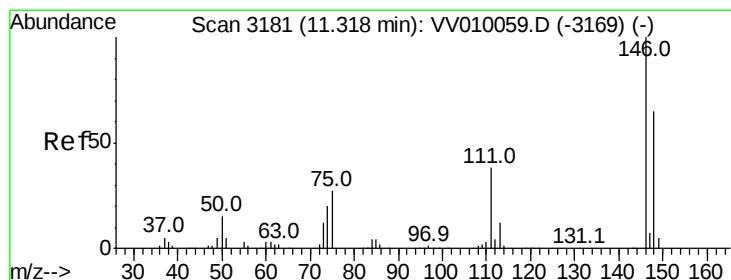
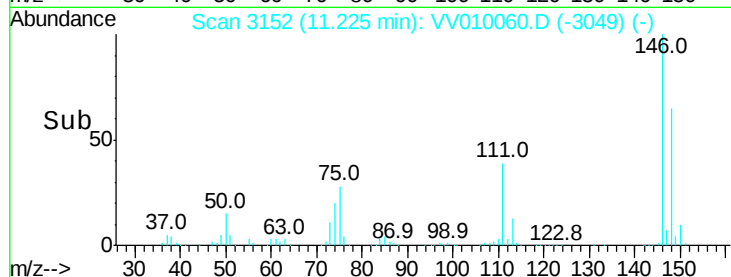
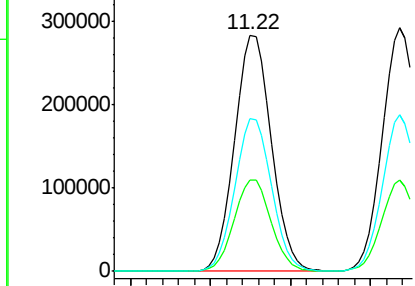
#63
 1,3-Dichlorobenzene
 Concen: 48.549 ug/L
 RT: 11.22 min Scan# 3152
 Delta R.T. -0.00 min
 Lab File: VV010060.D
 Acq: 02 Apr 2019 14:05

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05064

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.7	26.8	49.8
148	64.7	42.7	79.3

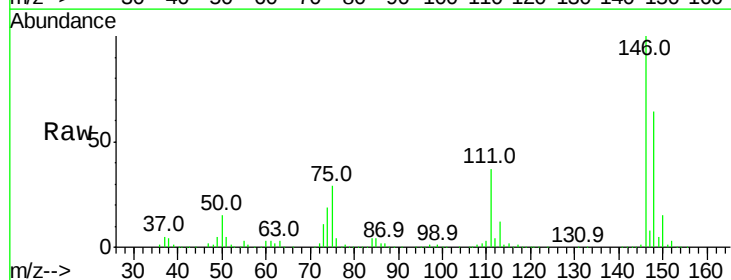


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

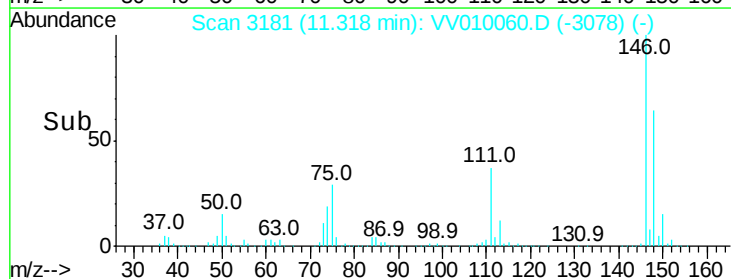
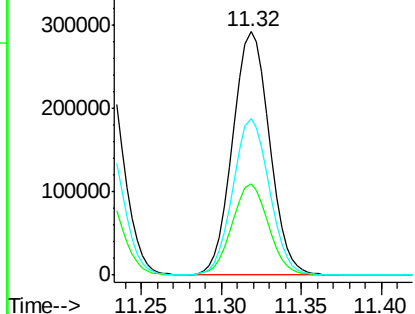


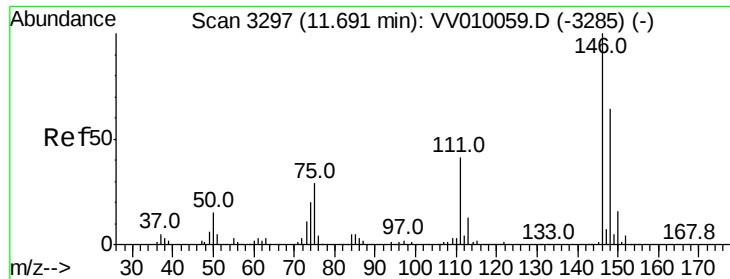
#64
 1,4-Dichlorobenzene
 Concen: 47.568 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: VV010060.D
 Acq: 02 Apr 2019 14:05

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.3	26.9	50.1
148	64.1	45.6	84.6



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





#65

1,2-Dichlorobenzene

Concen: 47.690 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. -0.00 min

Lab File: VV010060.D

Acq: 02 Apr 2019 14:05

Instrument :

MSVOA_V

ClientSampleId :

VSTD05064

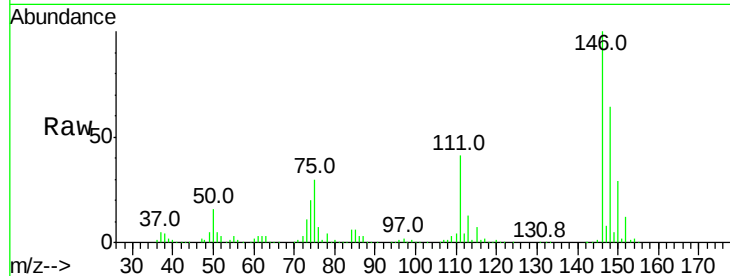
Tgt Ion:146 Resp: 430972

Ion Ratio Lower Upper

146 100

111 41.2 33.2 49.8

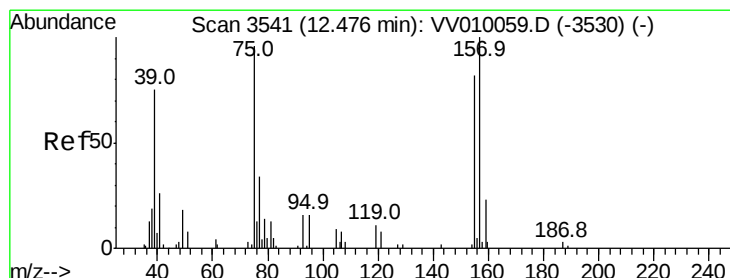
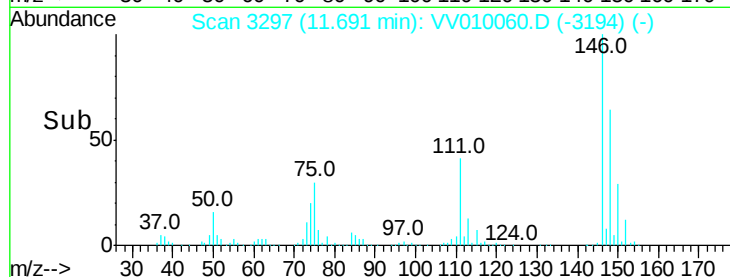
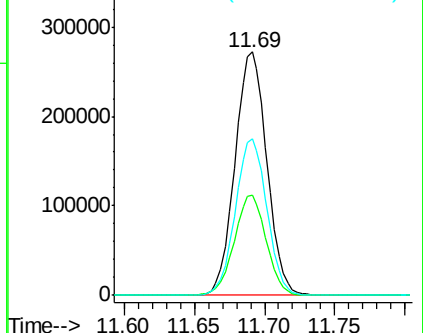
148 64.2 51.4 77.0



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



#66

1,2-Dibromo-3-chloropropane

Concen: 52.129 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. -0.00 min

Lab File: VV010060.D

Acq: 02 Apr 2019 14:05

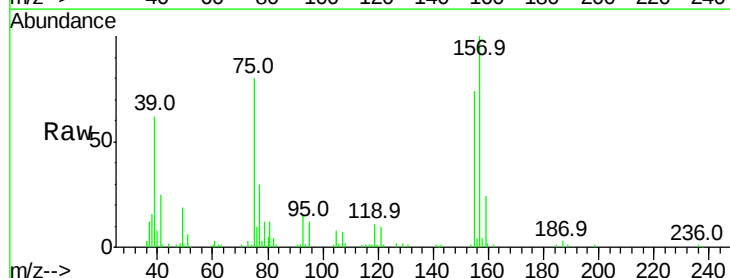
Tgt Ion: 75 Resp: 30370

Ion Ratio Lower Upper

75 100

157 125.6 83.0 124.6#

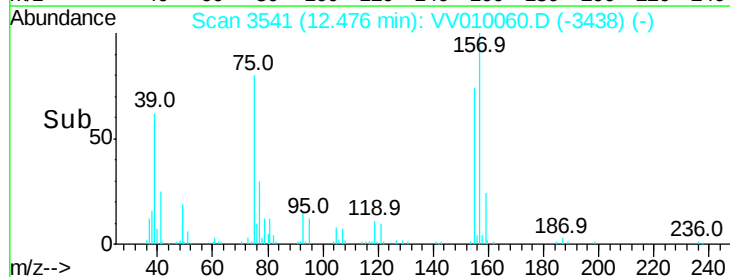
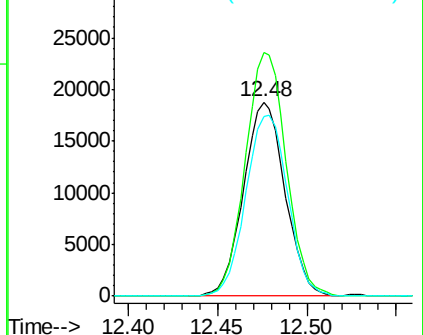
155 92.8 68.1 102.1

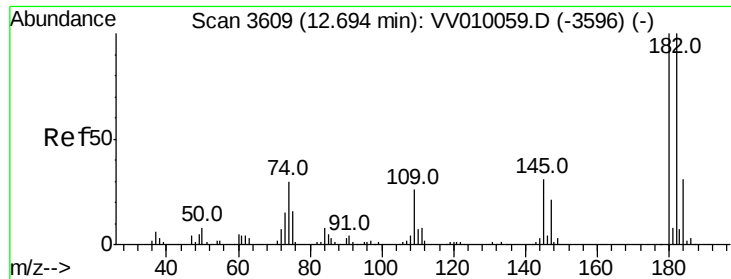


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

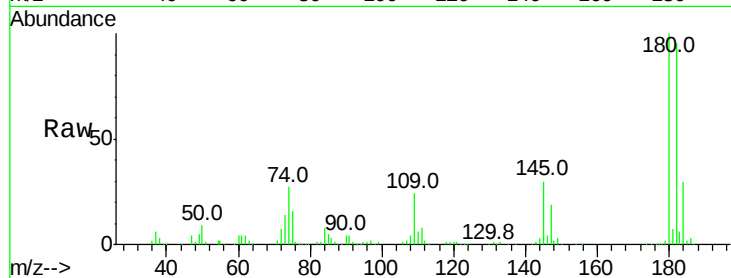




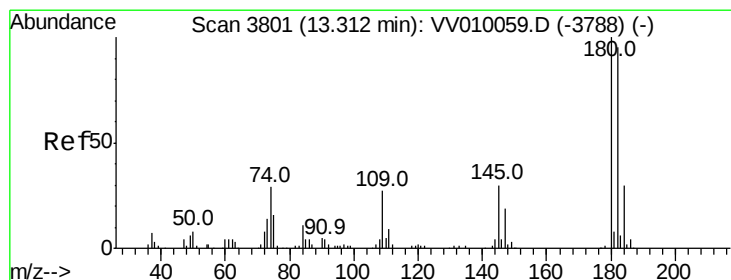
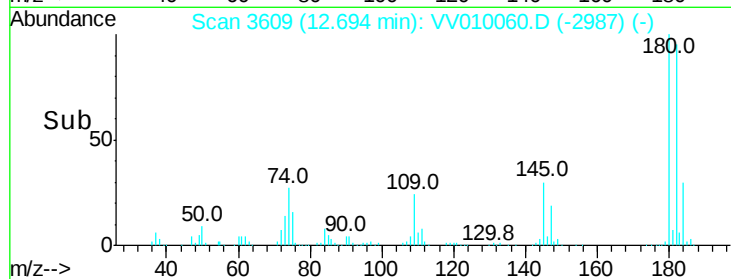
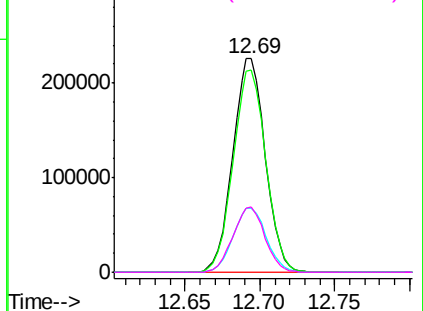
#67
 1,3,5-Trichlorobenzene
 Concen: 50.437 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. -0.00 min
 Lab File: VV010060.D
 Acq: 02 Apr 2019 14:05

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05064

Tgt Ion:180 Resp: 340575
 Ion Ratio Lower Upper
 180 100
 182 95.5 77.2 115.8
 184 30.7 23.8 35.6
 145 30.1 24.6 36.8

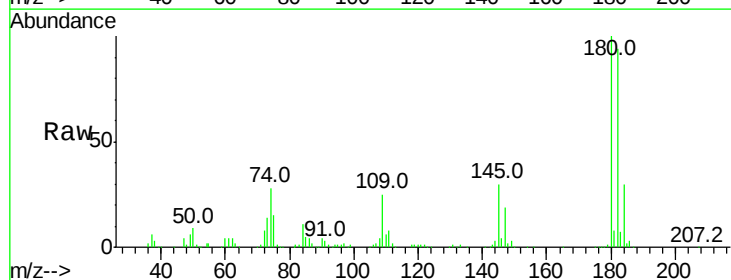


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

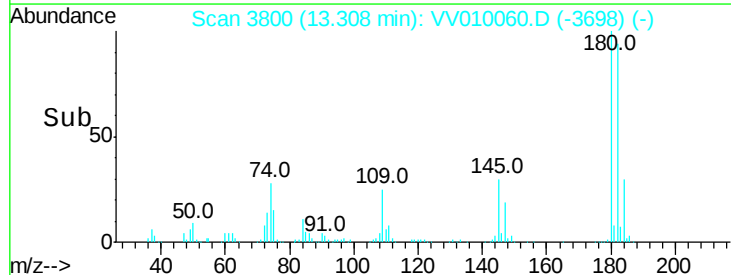
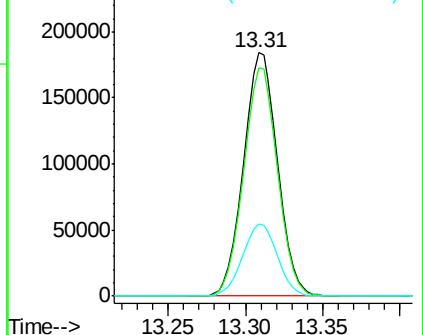


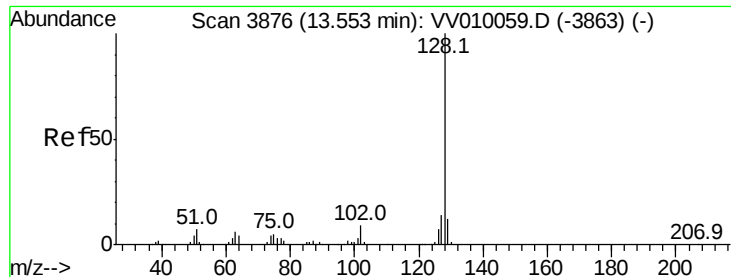
#68
 1,2,4-trichlorobenzene
 Concen: 57.217 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. -0.00 min
 Lab File: VV010060.D
 Acq: 02 Apr 2019 14:05

Tgt Ion:180 Resp: 281793
 Ion Ratio Lower Upper
 180 100
 182 93.5 75.7 113.5
 145 30.3 24.6 37.0



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





#69

Naphthalene

Concen: 66.378 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. -0.00 min

Lab File: VV010060.D

Acq: 02 Apr 2019 14:05

Instrument :

MSVOA_V

ClientSampleId :

VSTD05064

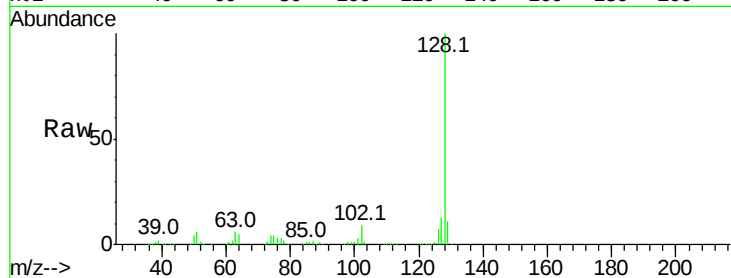
Tgt Ion:128 Resp: 513932

Ion Ratio Lower Upper

128 100

129 10.7 9.0 13.4

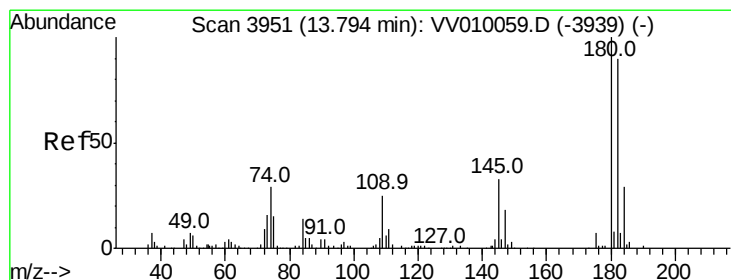
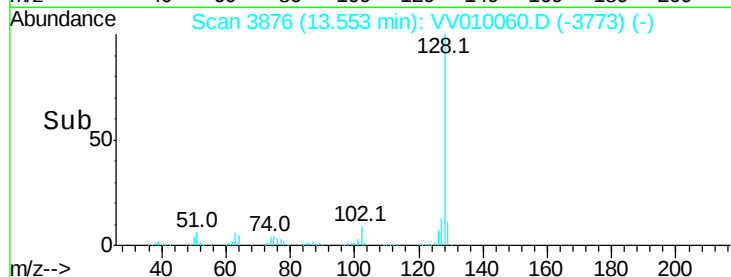
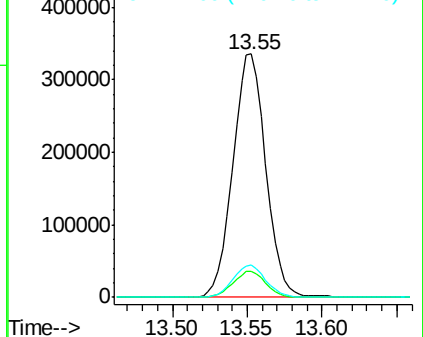
127 13.3 11.0 16.4



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: 58.279 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. -0.00 min

Lab File: VV010060.D

Acq: 02 Apr 2019 14:05

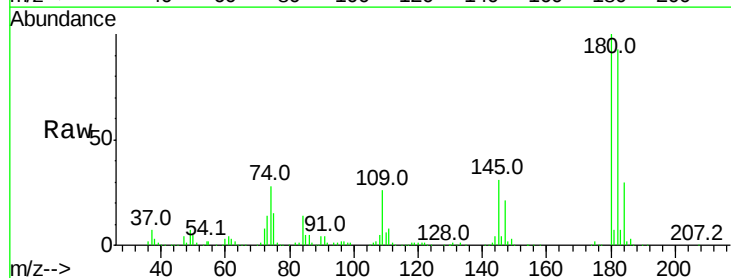
Tgt Ion:180 Resp: 268937

Ion Ratio Lower Upper

180 100

182 93.6 74.1 111.1

145 31.8 25.8 38.8



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

