

Data File : VL033833.D
Acq On : 29 May 2019 11:28
Operator : SY/AP
Sample : K2960-04
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3009-55

Quant Time: May 30 01:09:00 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 08:15:41 2019
QLast Update : Fri May 17 08:15:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	785618	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2068092	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	1922264	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.56 95 1581760 10.15 ppbv -0.01
Spiked Amount 10.000 Range 65 - 135 Recovery = 101.50%

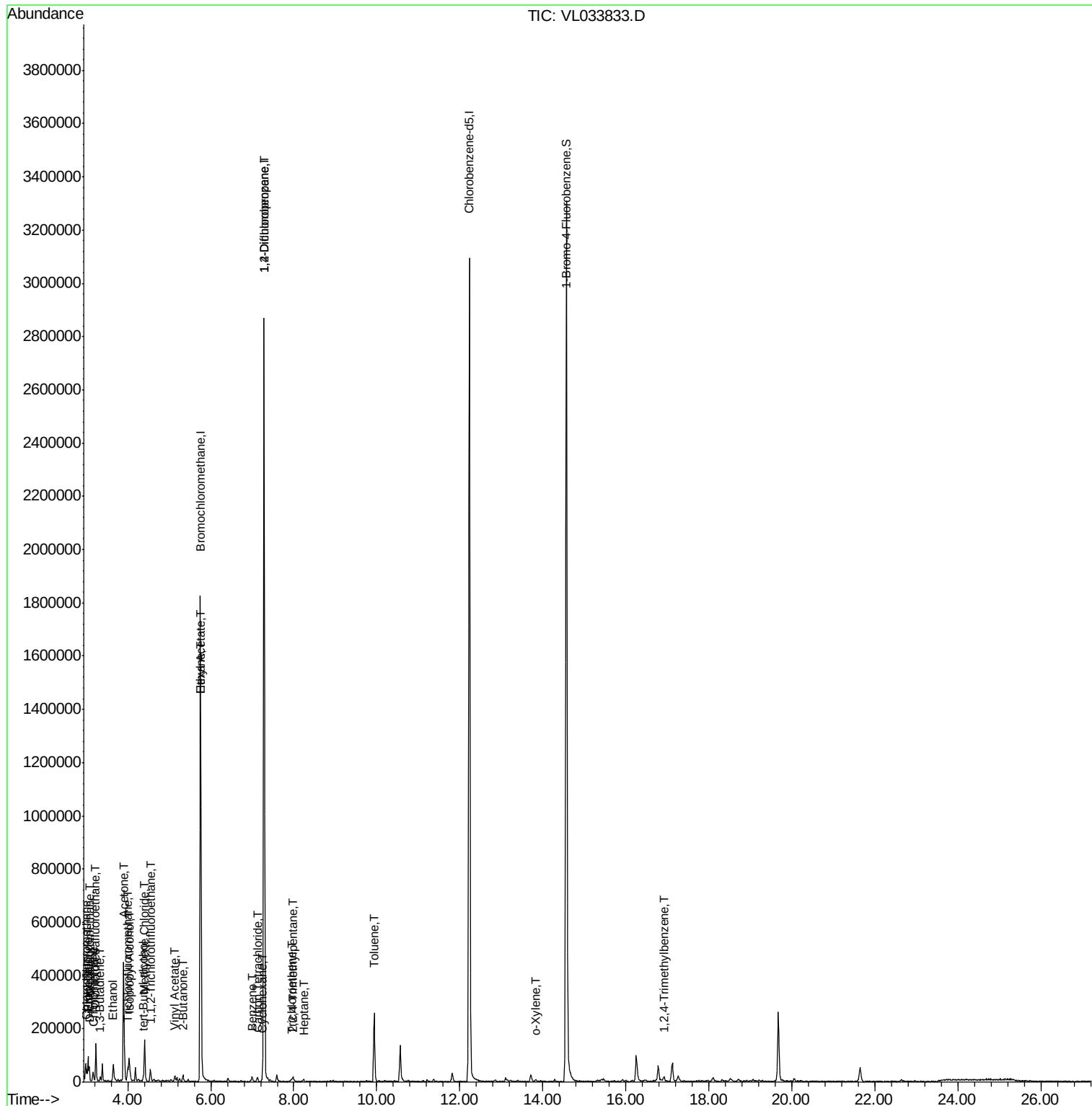
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.07	85	35763	0.216	ppbv	91
3) Chlorodifluoromethane	2.98	51	63218	0.703	ppbv #	79
4) Chloromethane	3.17	50	29110	0.566	ppbv	95
5) Vinyl Chloride	3.04	62	1120	0.021	ppbv #	72
8) Dichlorotetrafluoroethane	3.22	85	1654	0.012	ppbv	87
9) Propene	3.04	41	17249	0.451	ppbv	83
10) Heptane	8.23	43	1694	0.016	ppbv #	60
11) Trichlorofluoromethane	4.00	101	33275	0.211	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.54	101	9193	0.083	ppbv #	37
13) Ethanol	3.65	45	69602	5.626	ppbv	98
15) Acetone	3.90	43	436448	4.004	ppbv	98
16) 1,3-Butadiene	3.34	39	4901	0.113	ppbv #	31
17) tert-Butyl alcohol	4.37	59	1050	0.012	ppbv #	72
19) Isopropyl Alcohol	4.03	45	95300	1.356	ppbv #	94
20) Methylene Chloride	4.41	84	56955	1.357	ppbv	95
23) Vinyl Acetate	5.14	43	8347	0.058	ppbv #	25
25) Ethyl Acetate	5.77	43	37655	0.197	ppbv #	90
26) Hexane	5.77	57	36327	0.441	ppbv #	52
30) Cyclohexane	7.23	84	732	0.011	ppbv #	1
34) 2-Butanone	5.33	43	26678	0.208	ppbv	99
35) Carbon Tetrachloride	7.12	117	7518	0.045	ppbv	91
36) Benzene	6.99	78	11358	0.060	ppbv	95
38) Trichloroethene	7.95	130	1215	0.017	ppbv #	39
39) 1,2-Dichloropropane	7.28	63	514492	7.335	ppbv #	22
44) 2,2,4-Trimethylpentane	7.98	57	8111	0.026	ppbv #	19
53) Toluene	9.94	91	188578	0.929	ppbv	98
60) o-Xylene	13.84	91	3659	0.016	ppbv	81
74) 1,2,4-Trimethylbenzene	16.92	105	7343	0.027	ppbv #	60

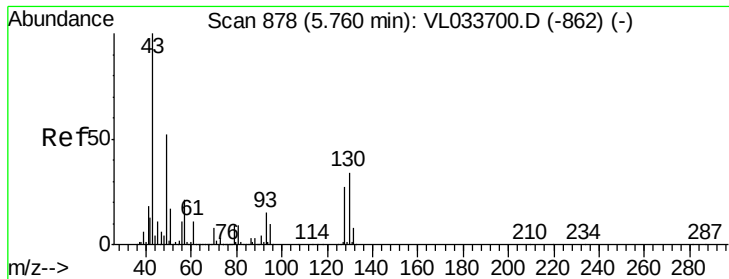
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VL033833.D
Acq On : 29 May 2019 11:28
Operator : SY/AP
Sample : K2960-04
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3009-55

Quant Time: May 30 01:09:00 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 08:15:41 2019
QLast Update : Fri May 17 08:15:41 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.01 min

Lab File: VL033833.D

Acq: 29 May 2019 11:28

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3009-55

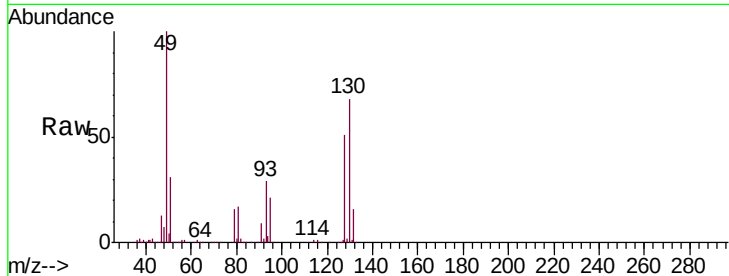
Tgt Ion: 49 Resp: 785618

Ion Ratio Lower Upper

49 100

128 51.5 25.2 75.6

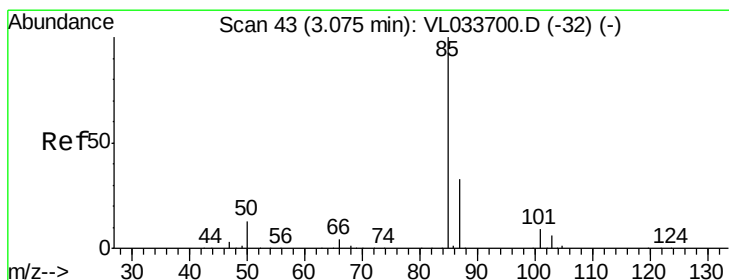
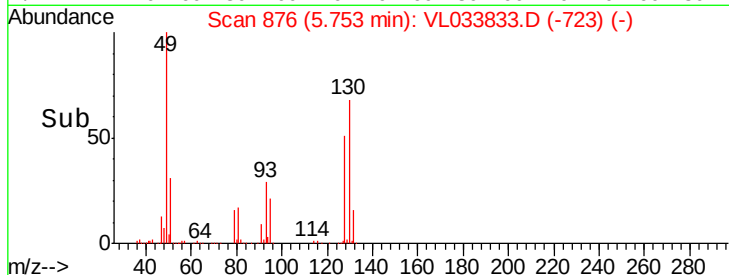
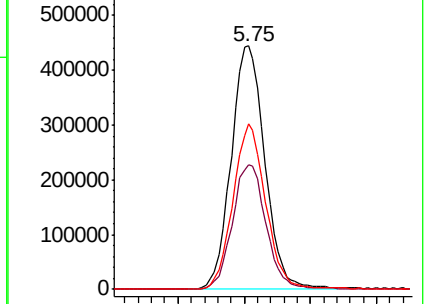
130 66.1 32.5 97.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.216 ppbv

RT: 3.07 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033833.D

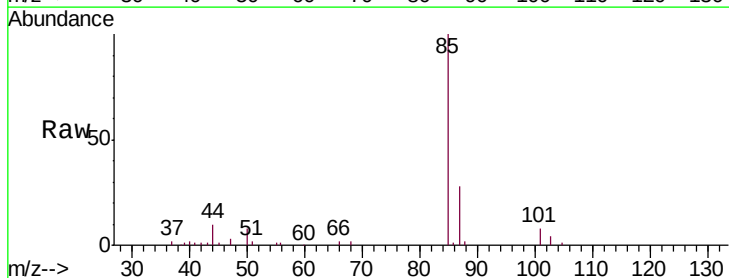
Acq: 29 May 2019 11:28

Tgt Ion: 85 Resp: 35763

Ion Ratio Lower Upper

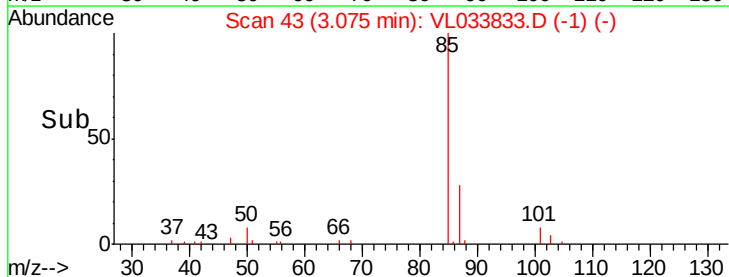
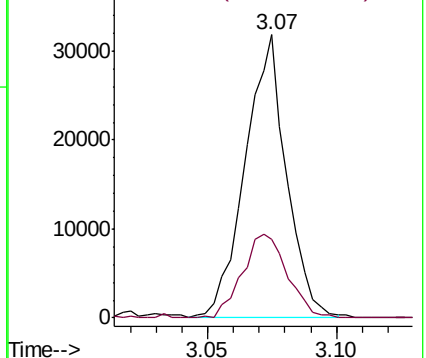
85 100

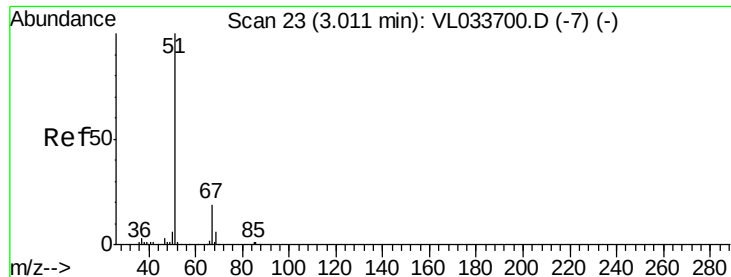
87 27.6 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

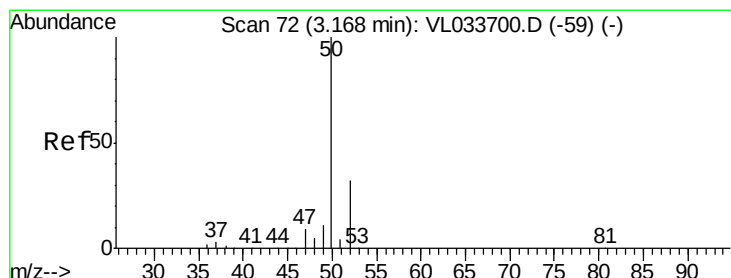
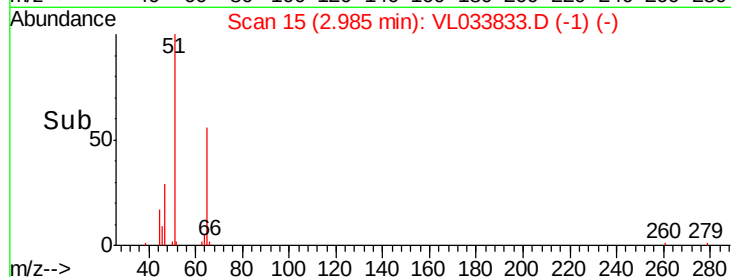
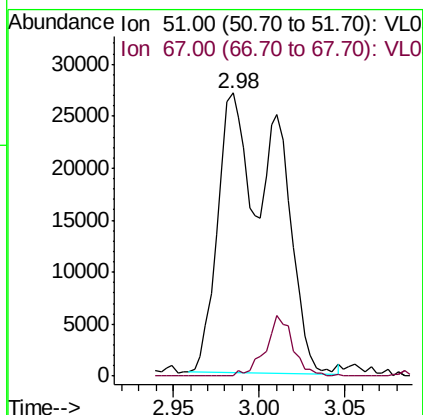
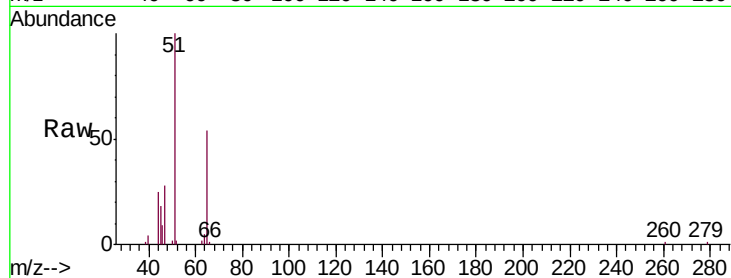




#3
Chlorodifluoromethane
Concen: 0.703 ppbv
RT: 2.98 min Scan# 15
Delta R.T. -0.03 min
Lab File: VL033833.D
Acq: 29 May 2019 11:28

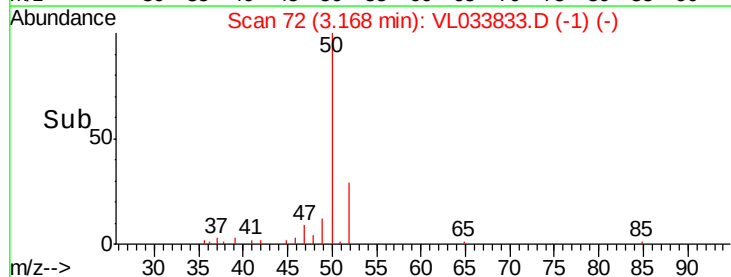
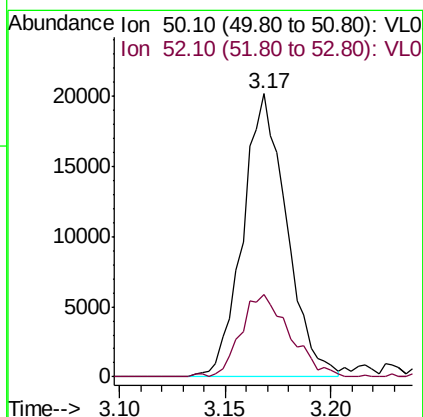
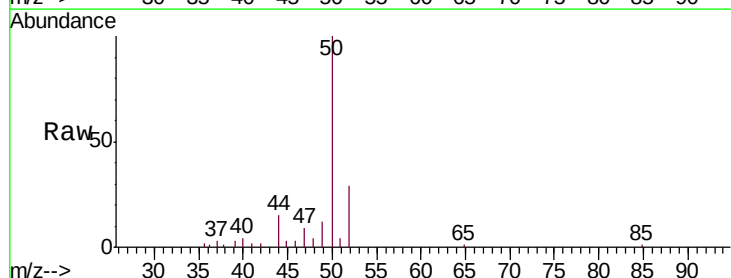
Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3009-55

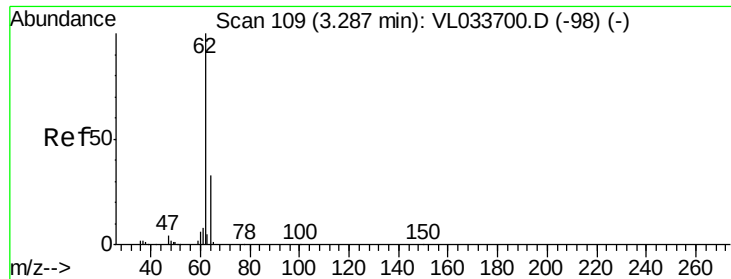
Tgt Ion: 51 Resp: 63218
Ion Ratio Lower Upper
51 100
67 10.1 15.6 23.4#



#4
Chloromethane
Concen: 0.566 ppbv
RT: 3.17 min Scan# 72
Delta R.T. -0.00 min
Lab File: VL033833.D
Acq: 29 May 2019 11:28

Tgt Ion: 50 Resp: 29110
Ion Ratio Lower Upper
50 100
52 29.2 25.7 38.5





#5

Vinyl Chloride

Concen: 0.021 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.25 min

Lab File: VL033833.D

Acq: 29 May 2019 11:28

Instrument :

MSVOA_L

ClientSampleId :

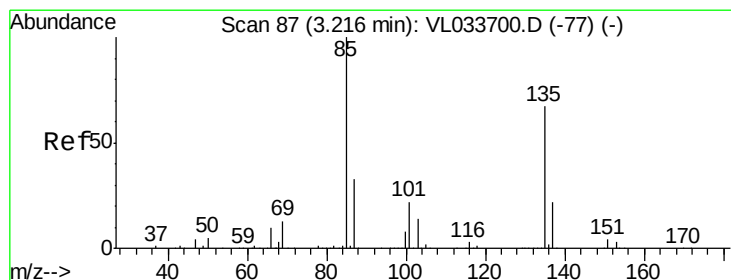
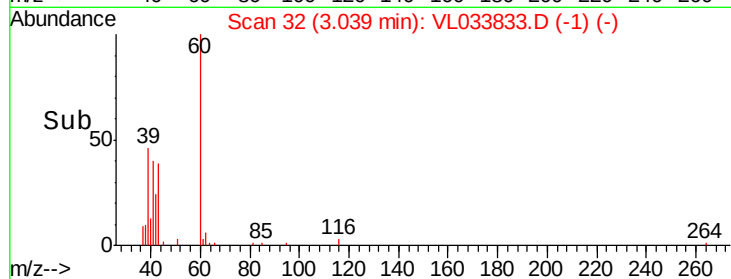
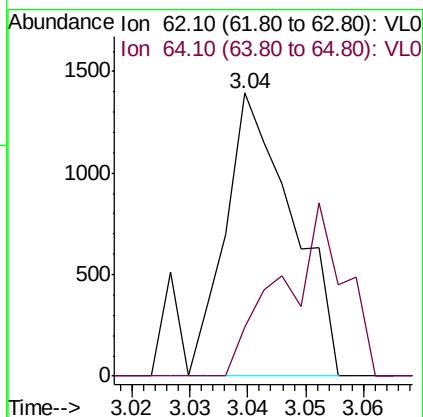
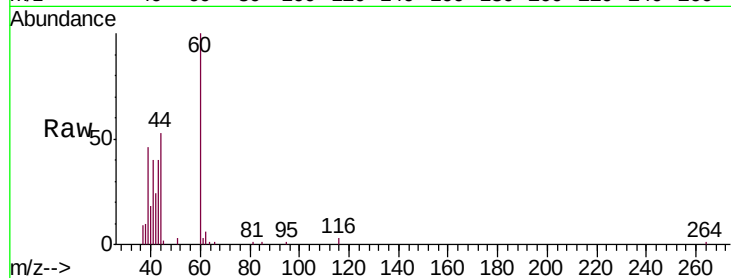
BPS1-SG-3009-55

Tgt Ion: 62 Resp: 1120

Ion Ratio Lower Upper

62 100

64 17.1 26.4 39.6#



#8

Dichlorotetrafluoroethane

Concen: 0.012 ppbv

RT: 3.22 min Scan# 87

Delta R.T. -0.00 min

Lab File: VL033833.D

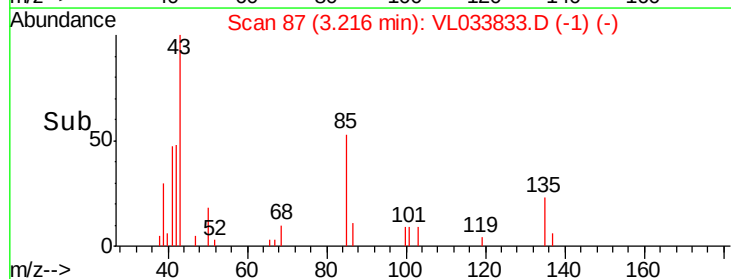
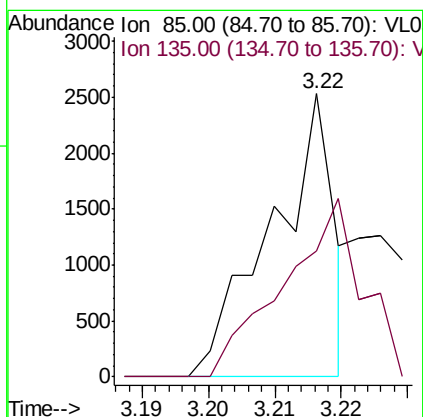
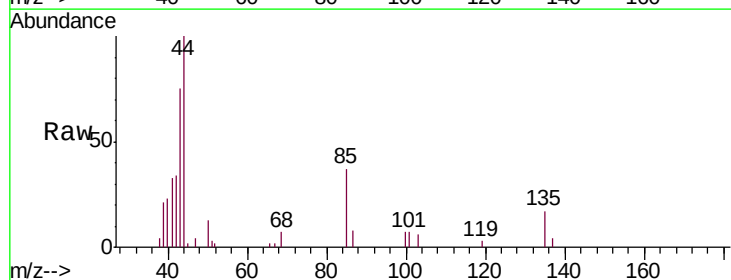
Acq: 29 May 2019 11:28

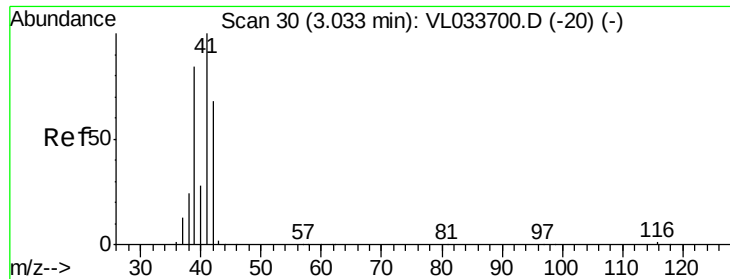
Tgt Ion: 85 Resp: 1654

Ion Ratio Lower Upper

85 100

135 78.8 54.5 81.7





#9

Propene

Concen: 0.451 ppbv

RT: 3.04 min Scan# 33

Delta R.T. 0.01 min

Lab File: VL033833.D

Acq: 29 May 2019 11:28

Instrument :

MSVOA_L

ClientSampleId :

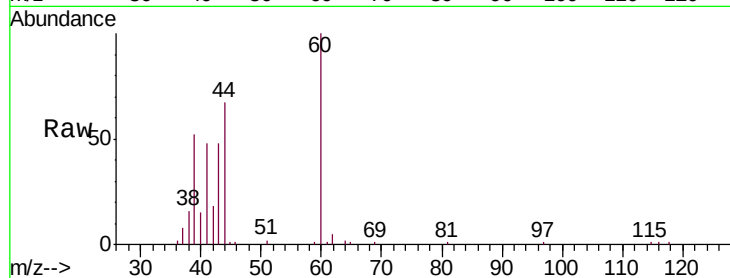
BPS1-SG-3009-55

Tgt Ion: 41 Resp: 17249

Ion Ratio Lower Upper

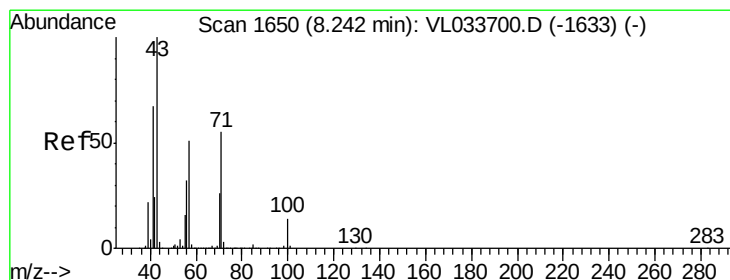
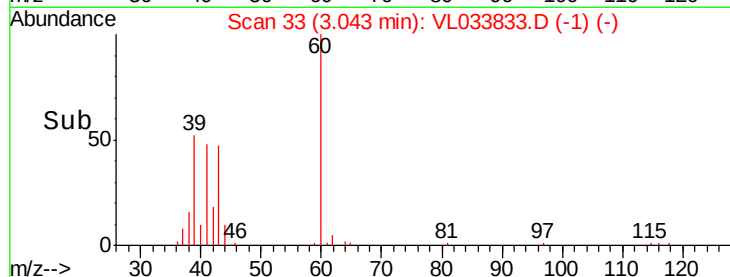
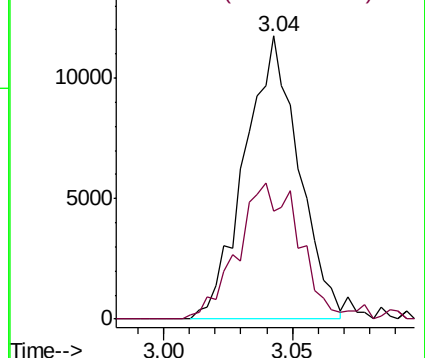
41 100

42 56.3 56.1 84.1



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.016 ppbv

RT: 8.23 min Scan# 1647

Delta R.T. -0.01 min

Lab File: VL033833.D

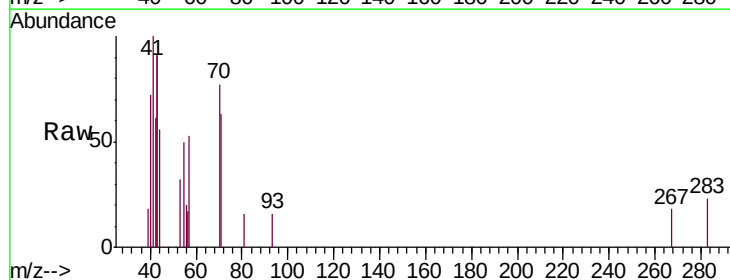
Acq: 29 May 2019 11:28

Tgt Ion: 43 Resp: 1694

Ion Ratio Lower Upper

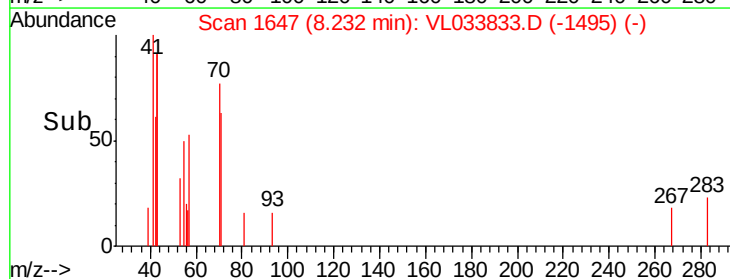
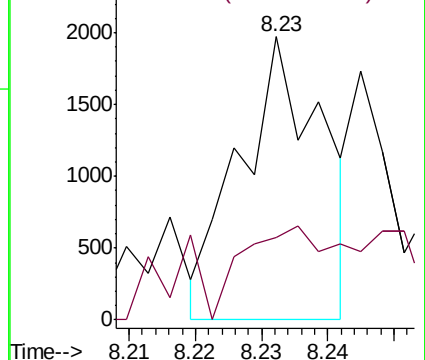
43 100

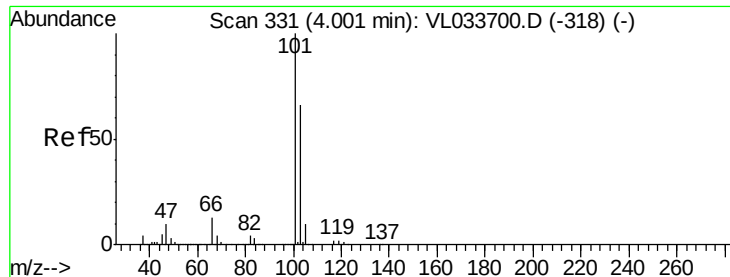
57 79.6 41.4 62.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

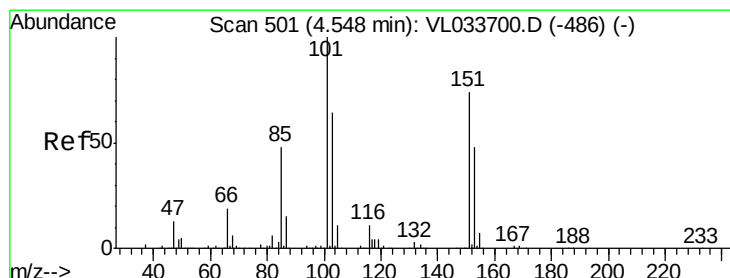
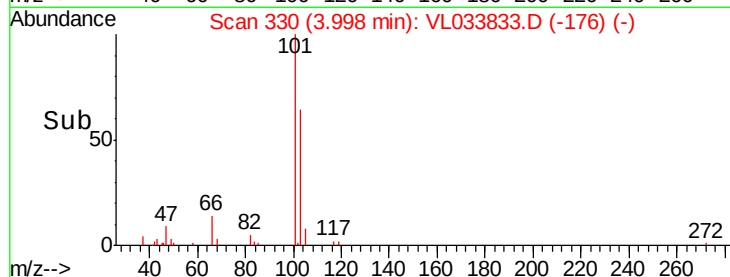
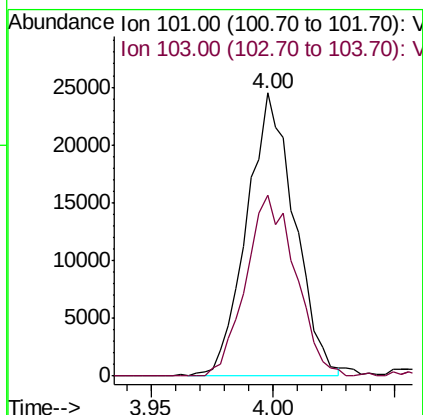
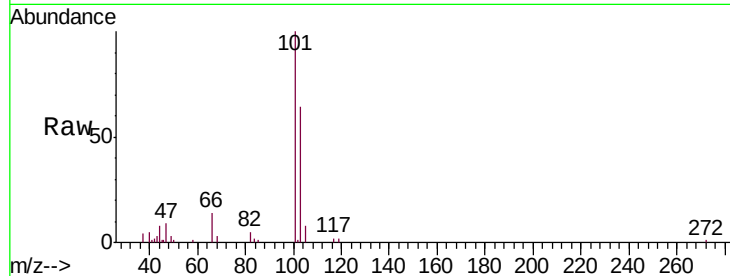




#11
 Trichlorofluoromethane
 Concen: 0.211 ppbv
 RT: 4.00 min Scan# 330
 Delta R.T. -0.00 min
 Lab File: VL033833.D
 Acq: 29 May 2019 11:28

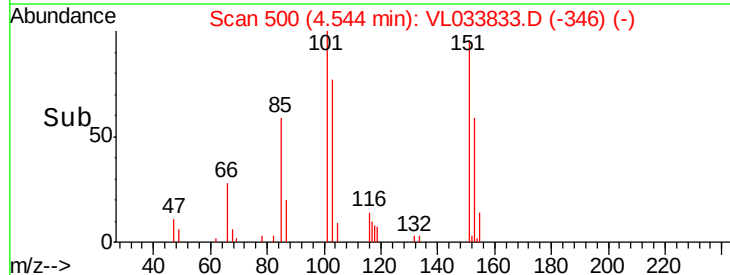
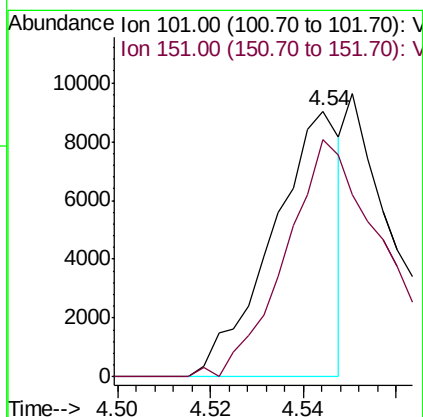
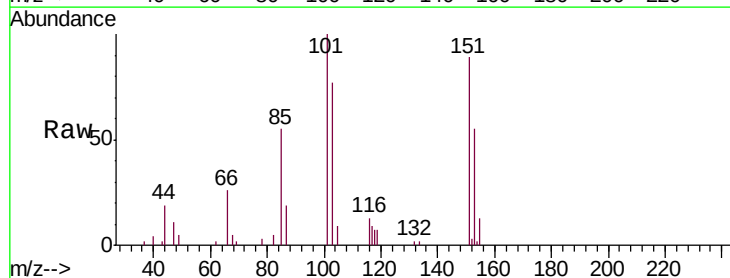
Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3009-55

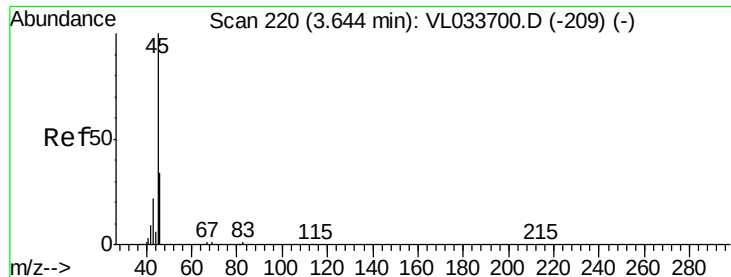
Tgt Ion:101 Resp: 33275
 Ion Ratio Lower Upper
 101 100
 103 63.7 52.6 78.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.083 ppbv
 RT: 4.54 min Scan# 500
 Delta R.T. -0.00 min
 Lab File: VL033833.D
 Acq: 29 May 2019 11:28

Tgt Ion:101 Resp: 9193
 Ion Ratio Lower Upper
 101 100
 151 126.0 58.2 87.4#

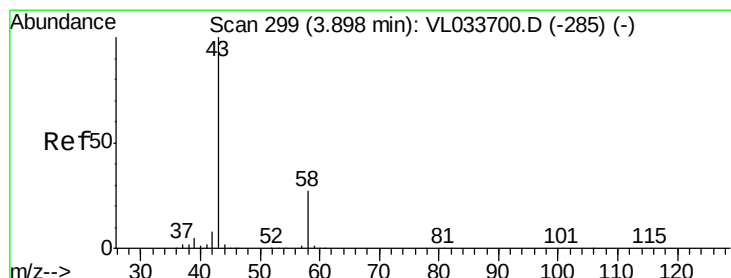
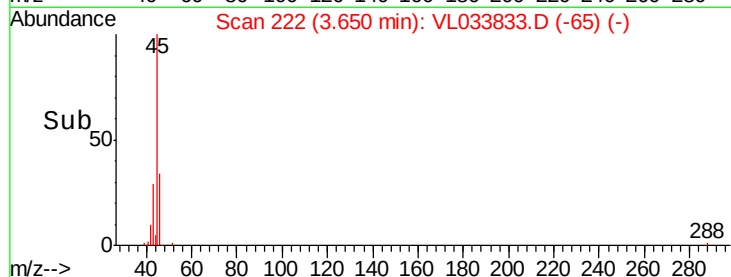
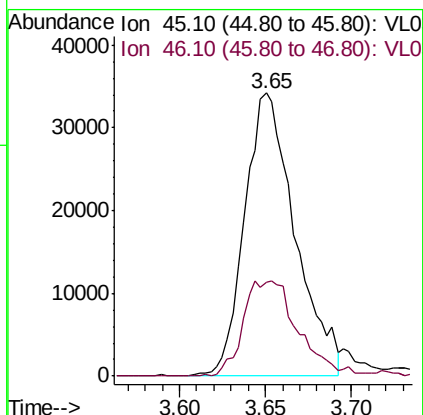
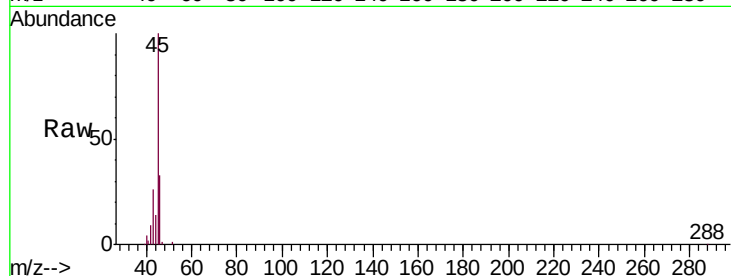




#13
Ethanol
Concen: 5.626 ppbv
RT: 3.65 min Scan# 222
Delta R.T. 0.01 min
Lab File: VL033833.D
Acq: 29 May 2019 11:28

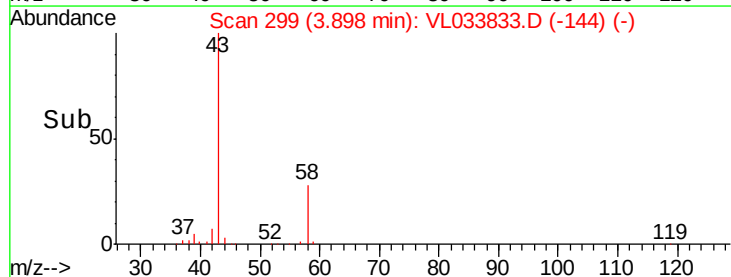
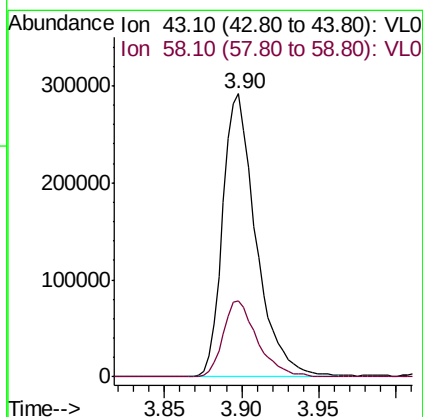
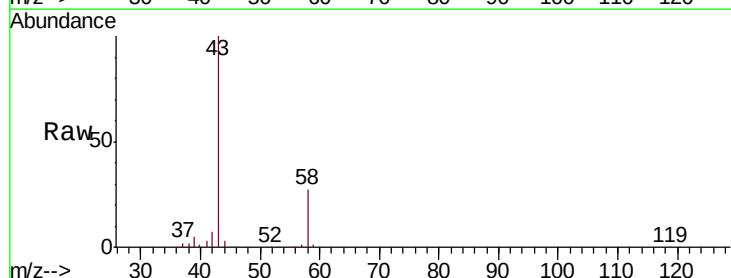
Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3009-55

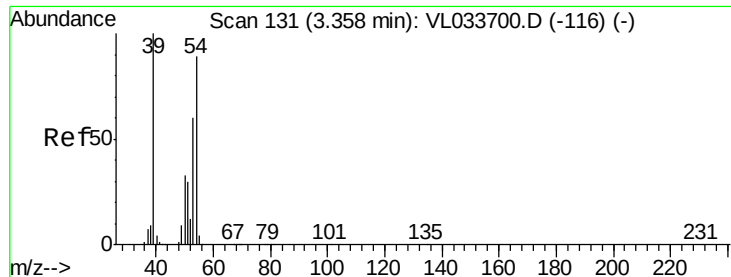
Tgt Ion: 45 Resp: 69602
Ion Ratio Lower Upper
45 100
46 38.0 14.8 59.0



#15
Acetone
Concen: 4.004 ppbv
RT: 3.90 min Scan# 299
Delta R.T. -0.00 min
Lab File: VL033833.D
Acq: 29 May 2019 11:28

Tgt Ion: 43 Resp: 436448
Ion Ratio Lower Upper
43 100
58 27.7 21.3 31.9

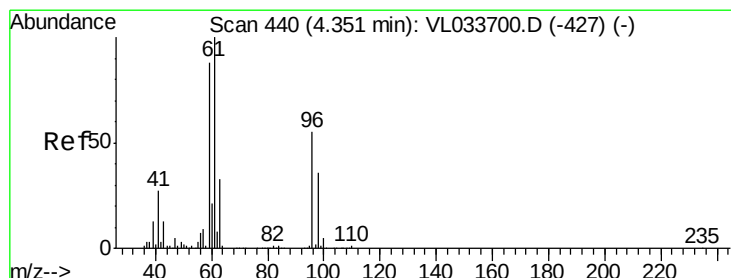
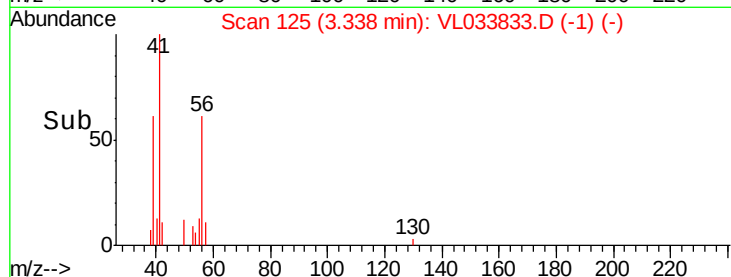
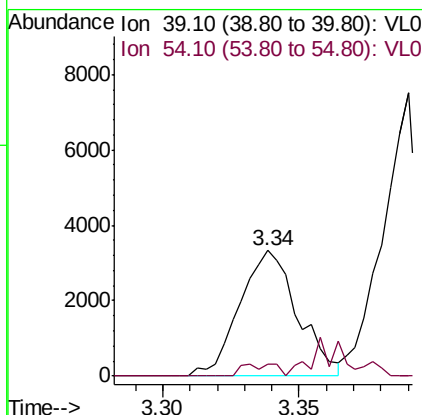
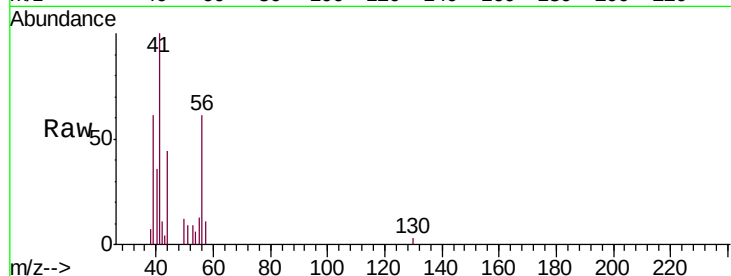




#16
 1,3-Butadiene
 Concen: 0.113 ppbv
 RT: 3.34 min Scan# 125
 Delta R.T. -0.02 min
 Lab File: VL033833.D
 Acq: 29 May 2019 11:28

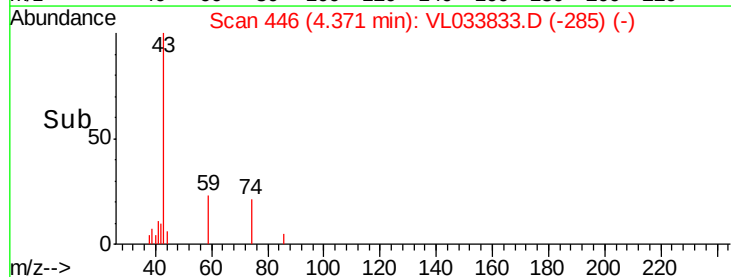
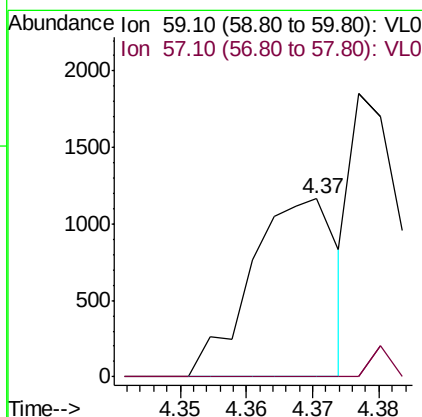
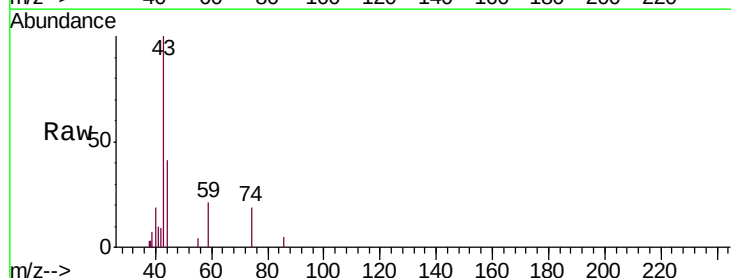
Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3009-55

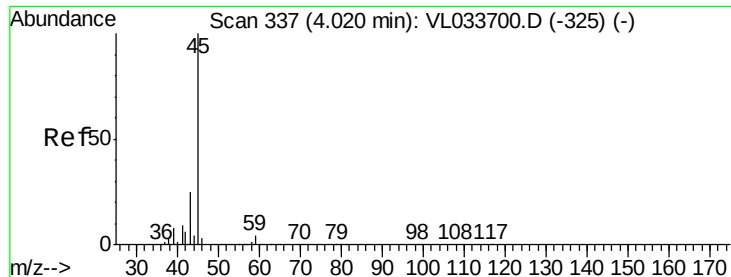
Tgt Ion: 39 Resp: 4901
 Ion Ratio Lower Upper
 39 100
 54 23.2 69.0 103.6#



#17
 tert-Butyl alcohol
 Concen: 0.012 ppbv
 RT: 4.37 min Scan# 446
 Delta R.T. 0.02 min
 Lab File: VL033833.D
 Acq: 29 May 2019 11:28

Tgt Ion: 59 Resp: 1050
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#





#19

Isopropyl Alcohol

Concen: 1.356 ppbv

RT: 4.03 min Scan# 341

Delta R.T. 0.01 min

Lab File: VL033833.D

Acq: 29 May 2019 11:28

Instrument :

MSVOA_L

ClientSampleId :

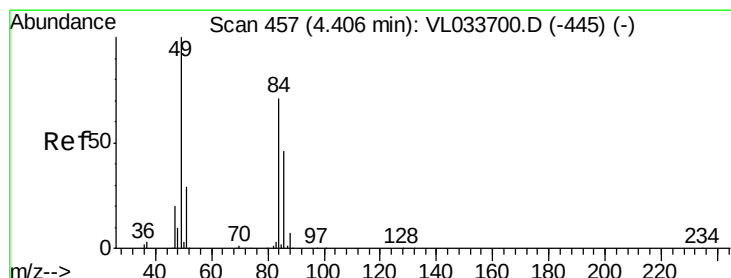
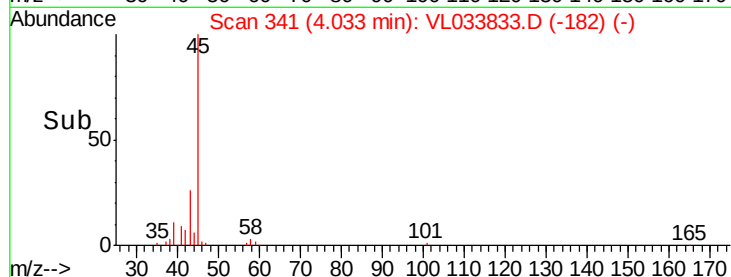
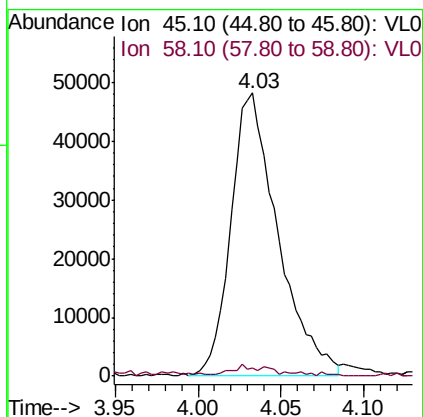
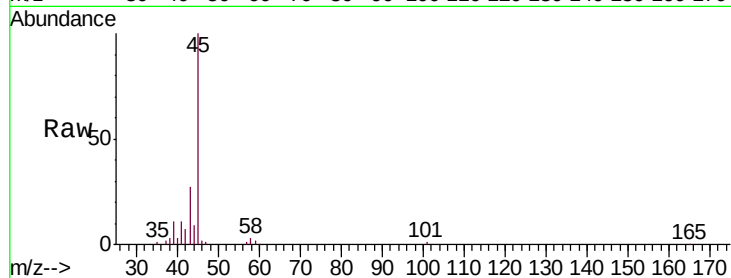
BPS1-SG-3009-55

Tgt Ion: 45 Resp: 95300

Ion Ratio Lower Upper

45 100

58 4.2 1.6 2.4#



#20

Methylene Chloride

Concen: 1.357 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL033833.D

Acq: 29 May 2019 11:28

Tgt Ion: 84 Resp: 56955

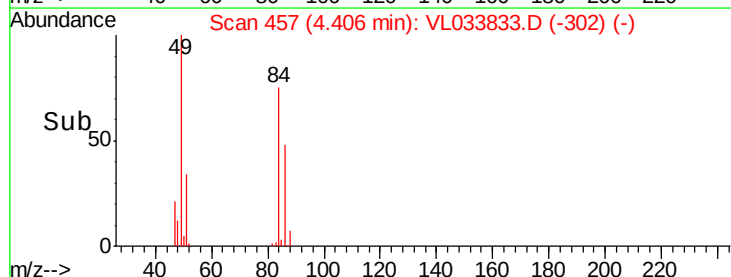
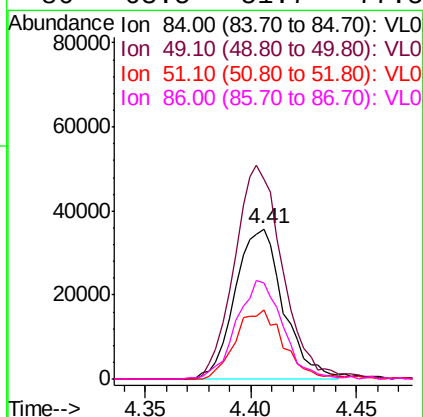
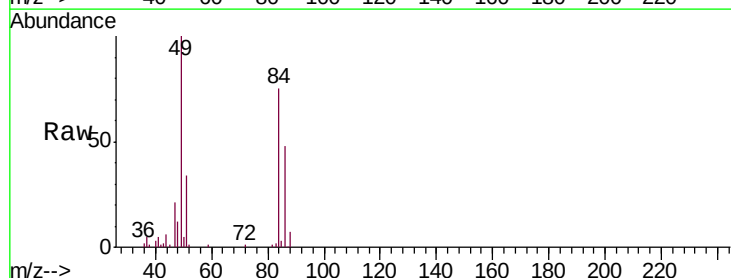
Ion Ratio Lower Upper

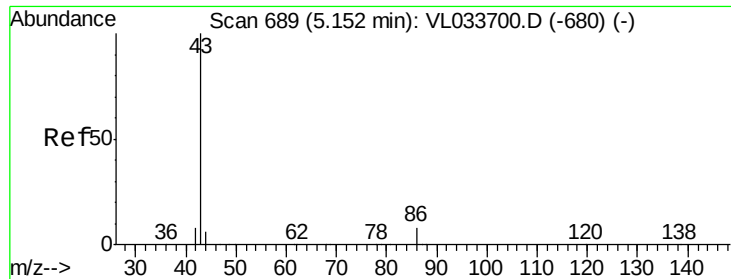
84 100

49 133.2 112.8 169.2

51 46.9 33.4 50.0

86 63.5 51.7 77.5





#23

Vinyl Acetate

Concen: 0.058 ppbv

RT: 5.14 min Scan# 685

Delta R.T. -0.01 min

Lab File: VL033833.D

Acq: 29 May 2019 11:28

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3009-55

Tgt Ion: 43 Resp: 8347

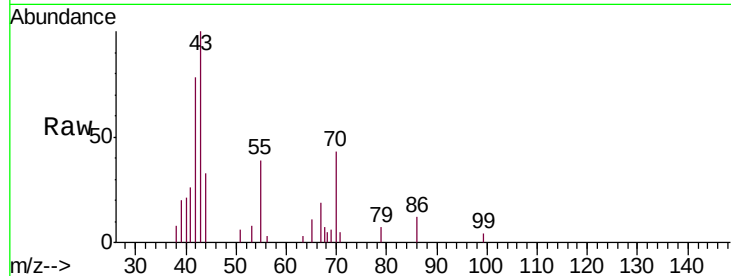
Ion Ratio Lower Upper

43 100

86 11.8 6.0 9.0#

42 65.9 7.5 11.3#

44 14.1 4.4 6.6#

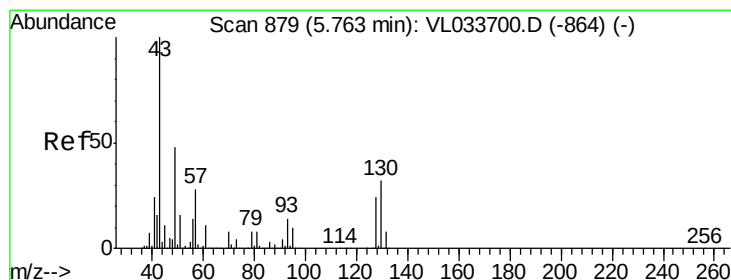
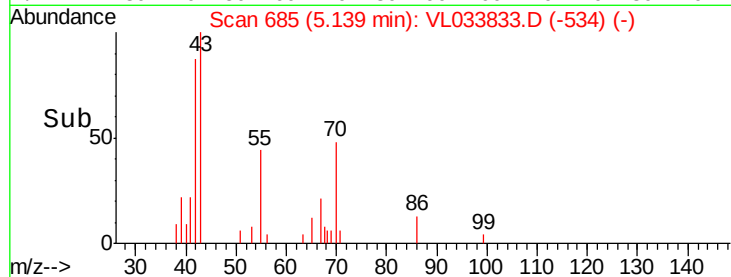
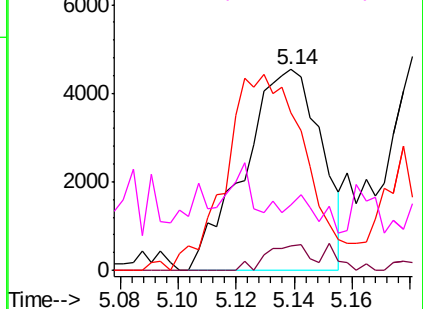


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.197 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.01 min

Lab File: VL033833.D

Acq: 29 May 2019 11:28

Tgt Ion: 43 Resp: 37655

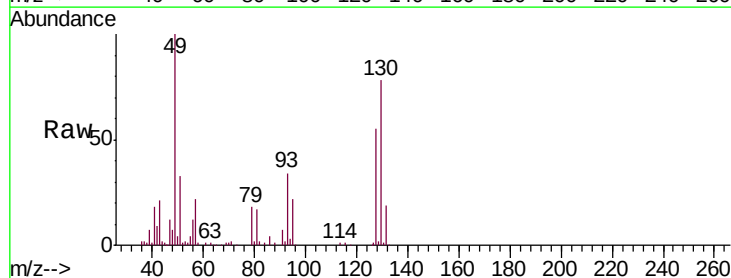
Ion Ratio Lower Upper

43 100

45 7.4 7.9 11.9#

61 4.8 7.7 11.5#

70 3.8 5.8 8.6#

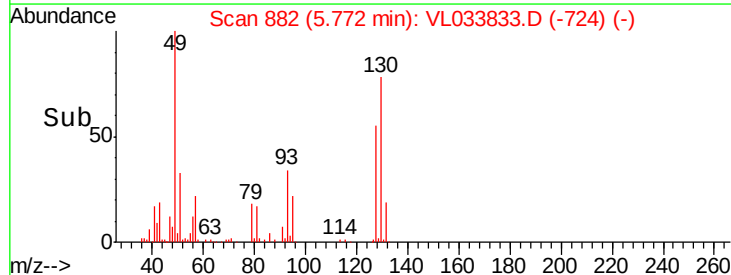
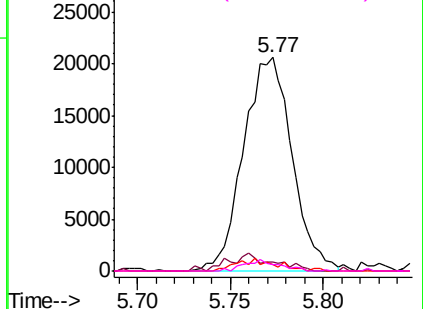


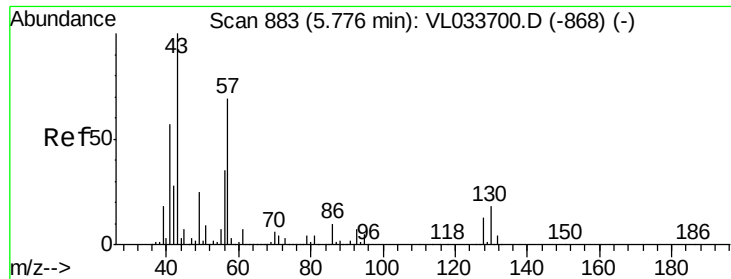
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

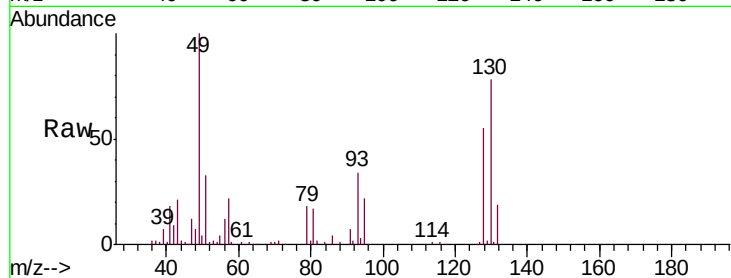




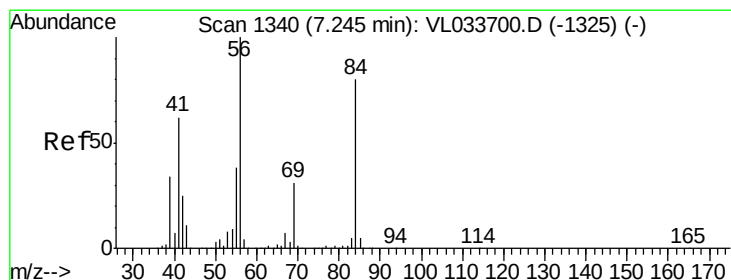
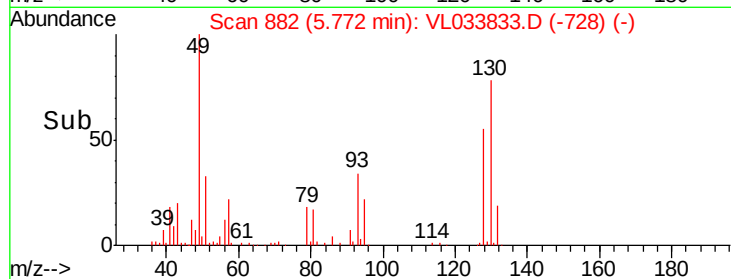
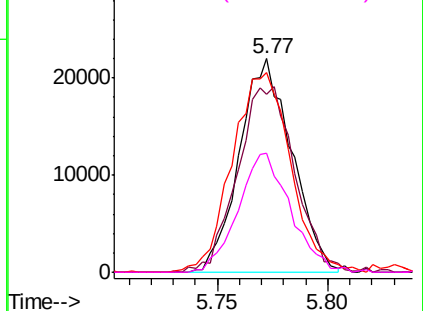
#26
Hexane
Concen: 0.441 ppbv
RT: 5.77 min Scan# 882
Delta R.T. -0.00 min
Lab File: VL033833.D
Acq: 29 May 2019 11:28

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3009-55

Tgt Ion: 57 Resp: 36327
Ion Ratio Lower Upper
57 100
41 95.4 69.8 104.6
43 107.0 181.8 272.6#
56 55.8 42.1 63.1

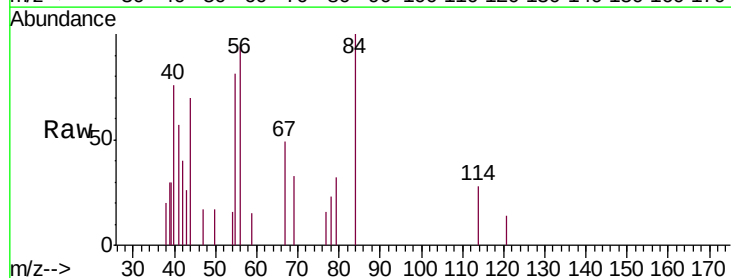


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

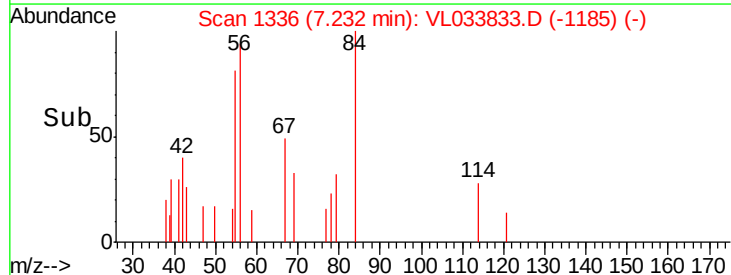
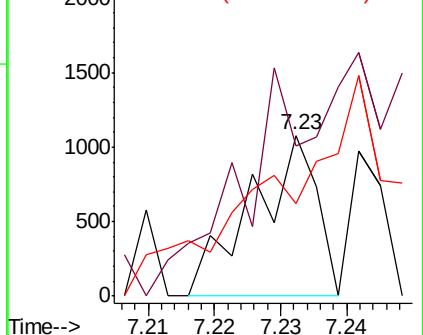


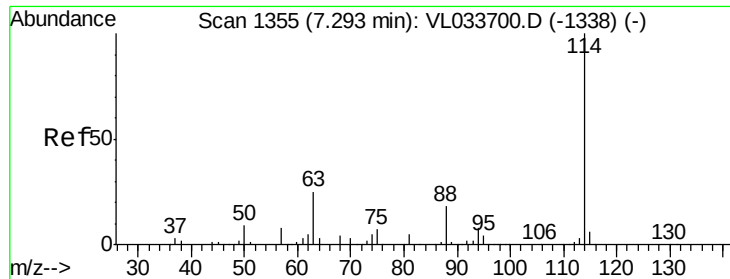
#30
Cyclohexane
Concen: 0.011 ppbv
RT: 7.23 min Scan# 1336
Delta R.T. -0.01 min
Lab File: VL033833.D
Acq: 29 May 2019 11:28

Tgt Ion: 84 Resp: 732
Ion Ratio Lower Upper
84 100
56 0.0 107.7 161.5#
41 0.0 66.0 99.0#



Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

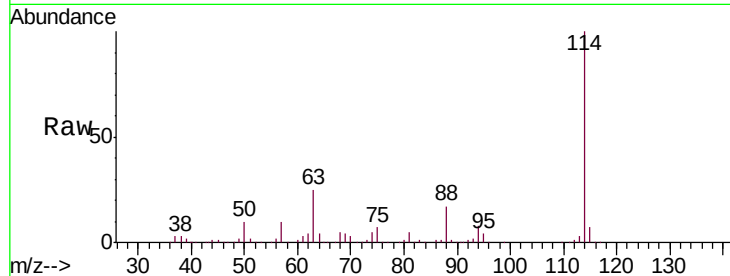




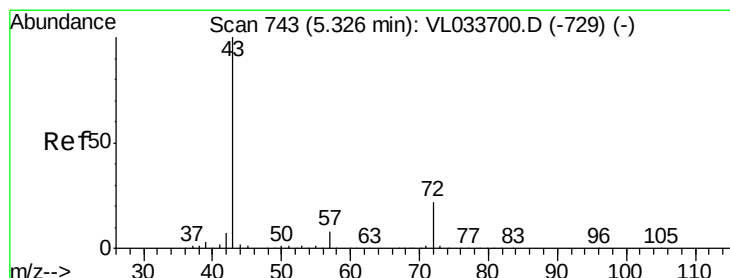
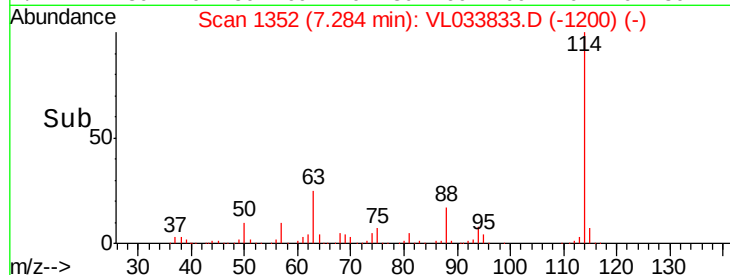
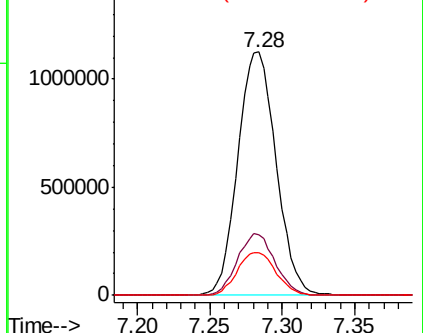
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1352
 Delta R.T. -0.01 min
 Lab File: VL033833.D
 Acq: 29 May 2019 11:28

Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3009-55

Tgt Ion: 114 Resp: 2068092
 Ion Ratio Lower Upper
 114 100
 63 24.9 20.9 31.3
 88 17.7 14.3 21.5

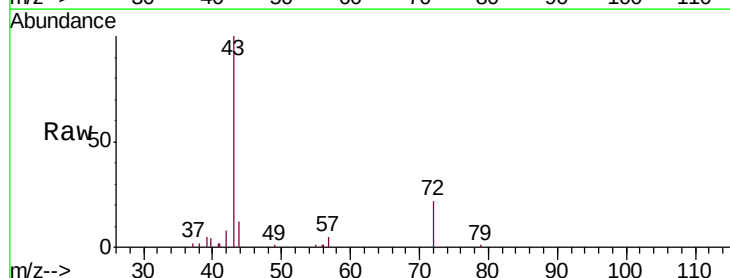


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

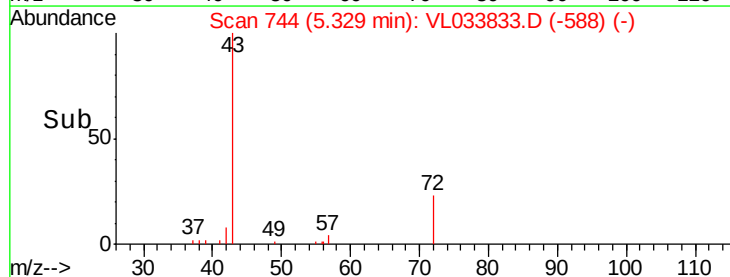
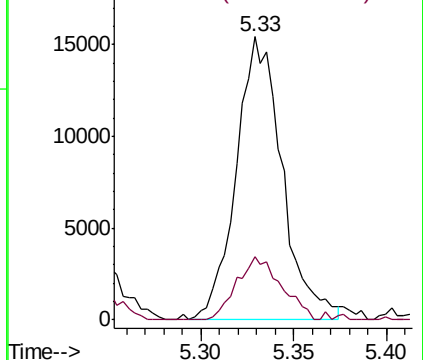


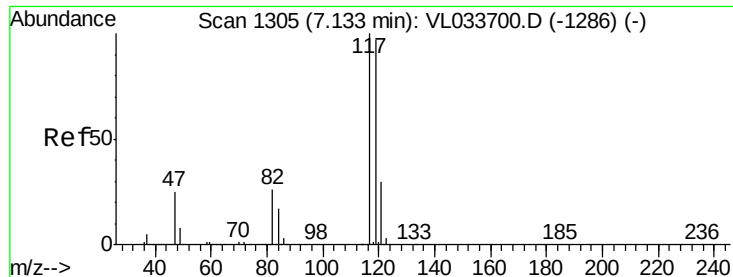
#34
 2-Butanone
 Concen: 0.208 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. 0.00 min
 Lab File: VL033833.D
 Acq: 29 May 2019 11:28

Tgt Ion: 43 Resp: 26678
 Ion Ratio Lower Upper
 43 100
 72 21.7 17.8 26.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.045 ppbv

RT: 7.12 min Scan# 1302

Delta R.T. -0.01 min

Lab File: VL033833.D

Acq: 29 May 2019 11:28

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3009-55

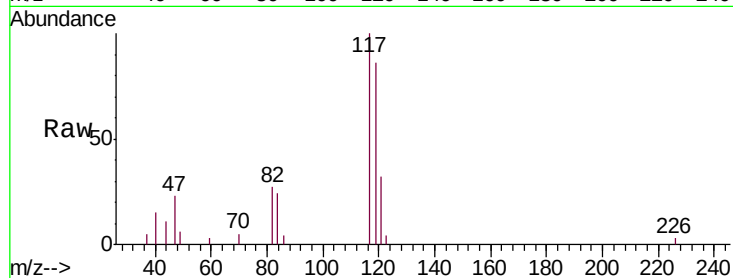
Tgt Ion: 117 Resp: 7518

Ion Ratio Lower Upper

117 100

119 86.1 77.2 115.8

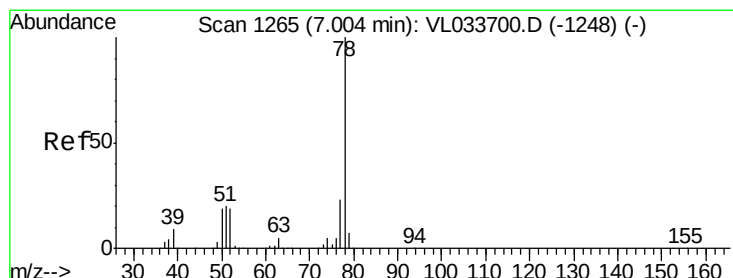
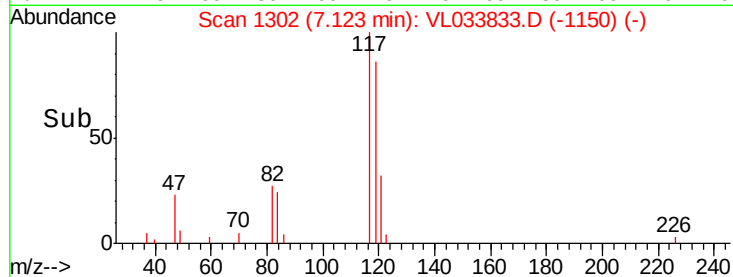
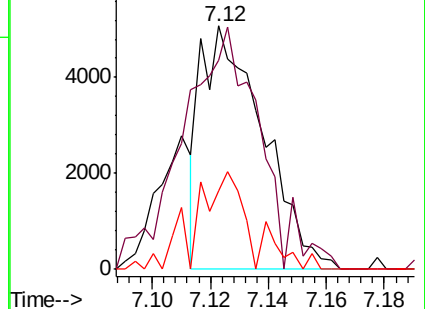
121 32.2 24.1 36.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.060 ppbv

RT: 6.99 min Scan# 1262

Delta R.T. -0.01 min

Lab File: VL033833.D

Acq: 29 May 2019 11:28

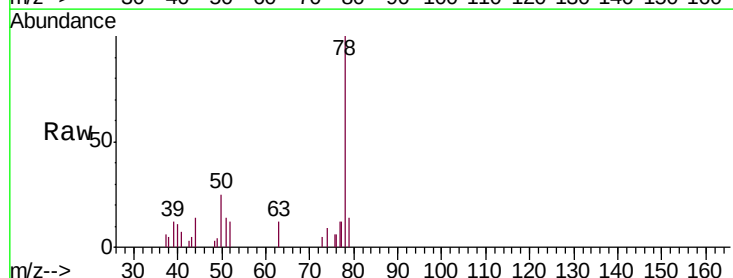
Tgt Ion: 78 Resp: 11358

Ion Ratio Lower Upper

78 100

77 20.8 18.4 27.6

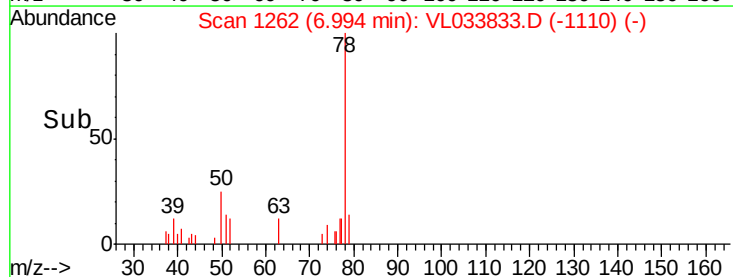
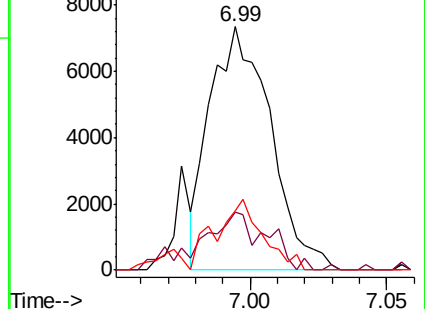
50 21.5 15.5 23.3

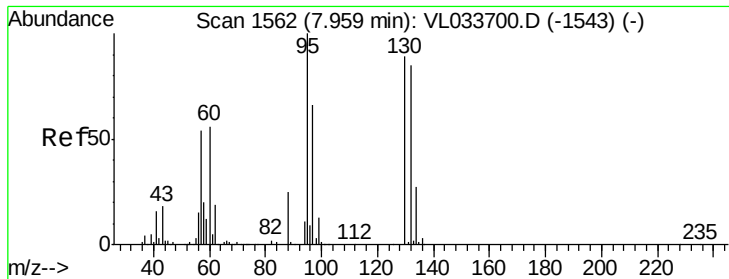


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#38

Trichloroethene

Concen: 0.017 ppbv

RT: 7.95 min Scan# 1560

Delta R.T. -0.01 min

Lab File: VL033833.D

Acq: 29 May 2019 11:28

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3009-55

Tgt Ion: 130 Resp: 1215

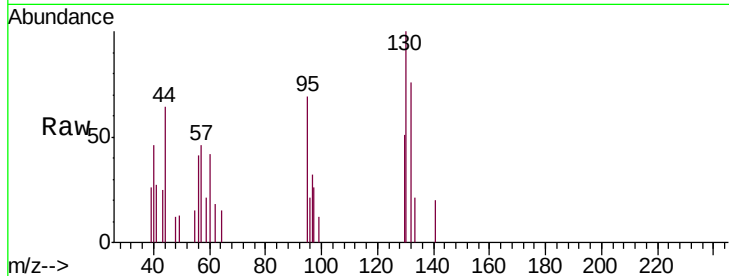
Ion Ratio Lower Upper

130 100

95 27.6 90.2 135.4#

132 75.8 76.4 114.6#

97 2.2 59.8 89.6#

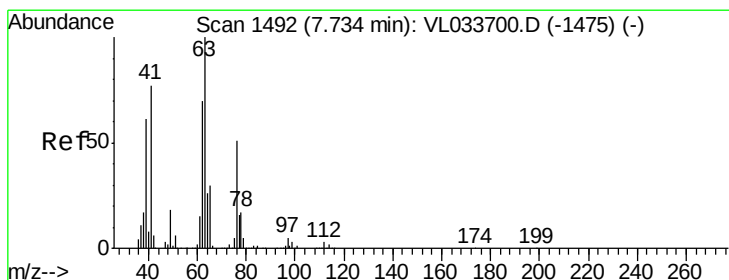
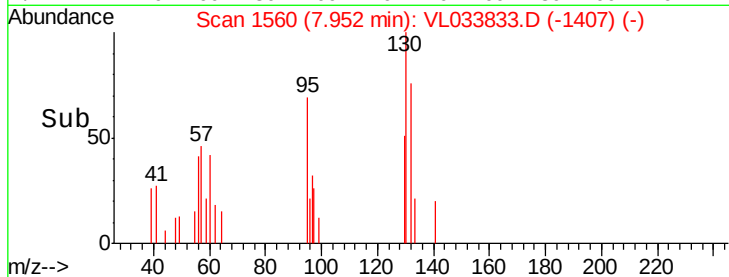
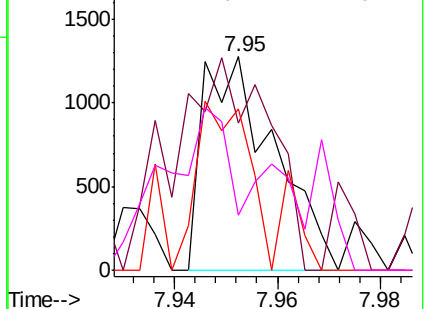


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 7.335 ppbv

RT: 7.28 min Scan# 1351

Delta R.T. -0.45 min

Lab File: VL033833.D

Acq: 29 May 2019 11:28

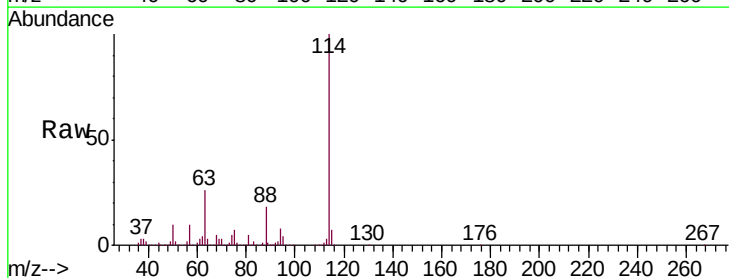
Tgt Ion: 63 Resp: 514492

Ion Ratio Lower Upper

63 100

41 0.0 61.5 92.3#

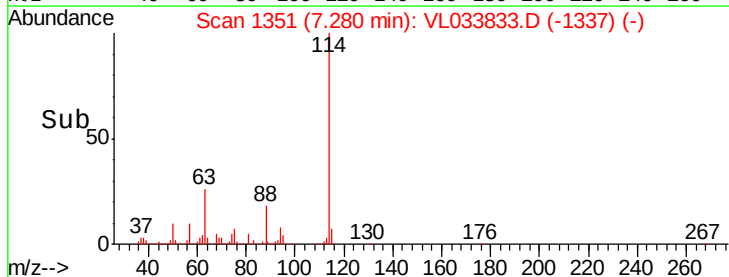
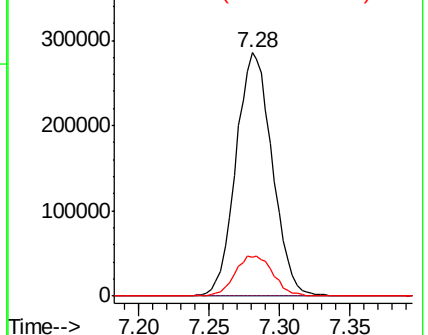
62 16.1 56.2 84.4#

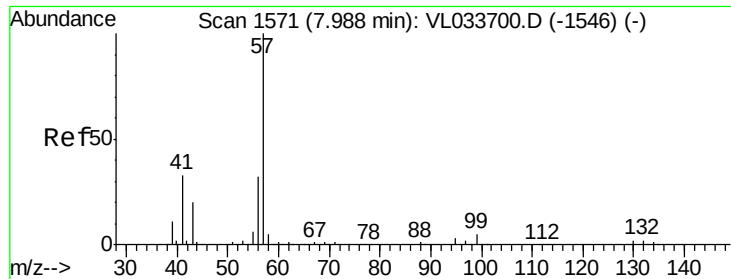


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 0.026 ppbv

RT: 7.98 min Scan# 1569

Delta R.T. -0.01 min

Lab File: VL033833.D

Acq: 29 May 2019 11:28

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3009-55

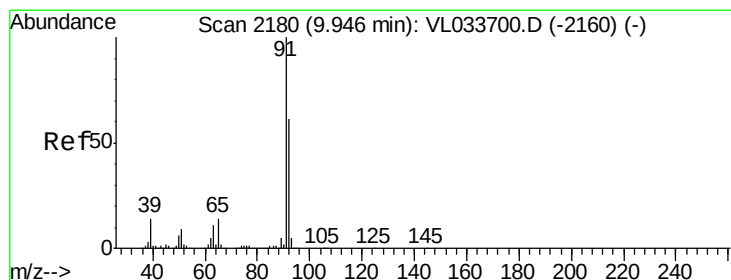
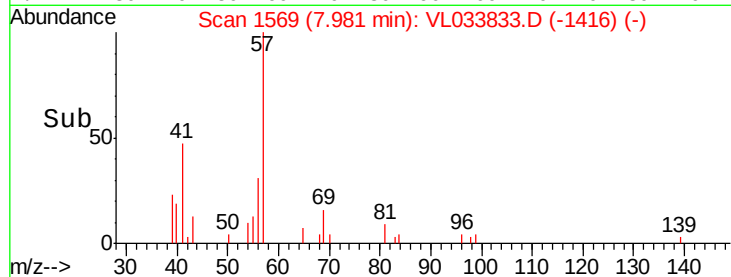
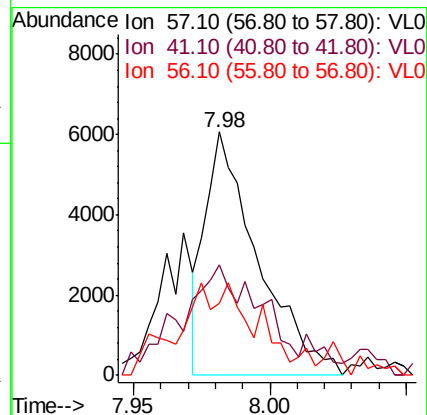
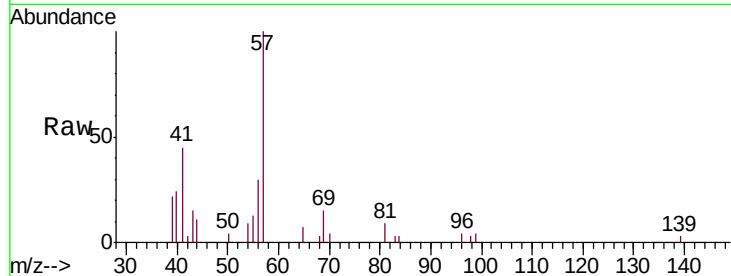
Tgt Ion: 57 Resp: 8111

Ion Ratio Lower Upper

57 100

41 86.4 25.4 38.0#

56 65.7 24.7 37.1#



#53

Toluene

Concen: 0.929 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033833.D

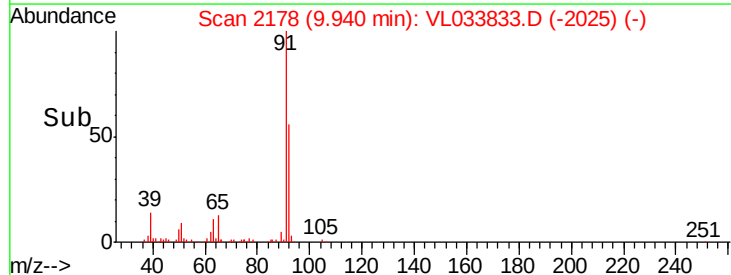
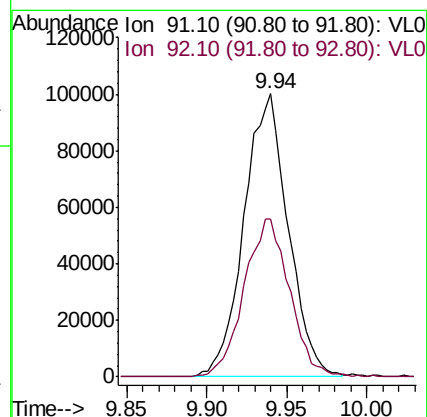
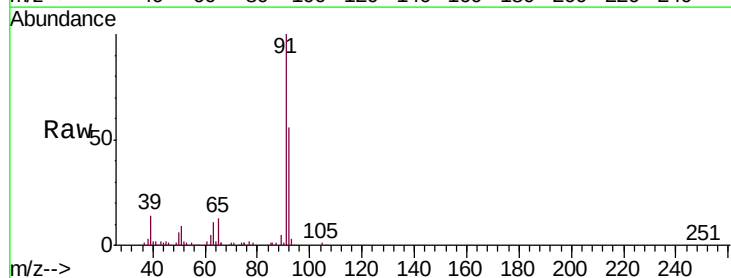
Acq: 29 May 2019 11:28

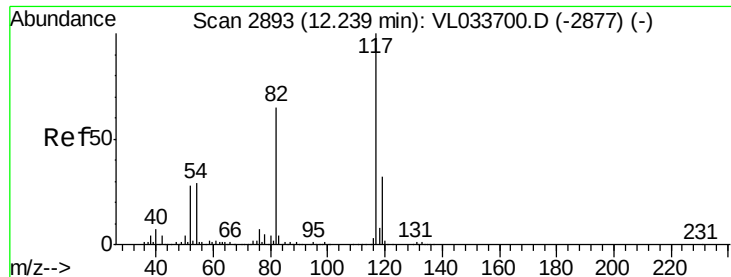
Tgt Ion: 91 Resp: 188578

Ion Ratio Lower Upper

91 100

92 57.8 47.6 71.4

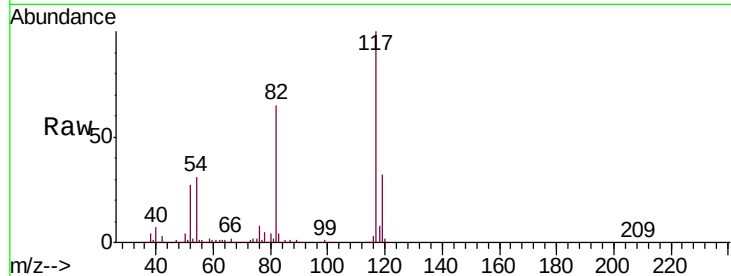




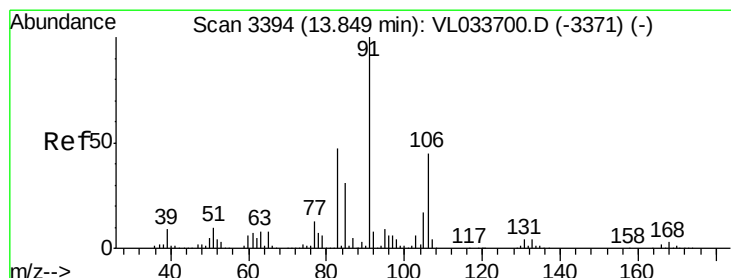
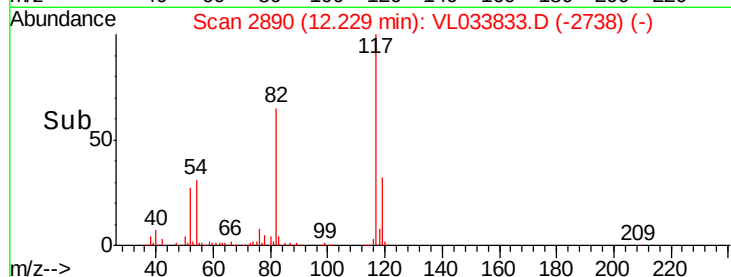
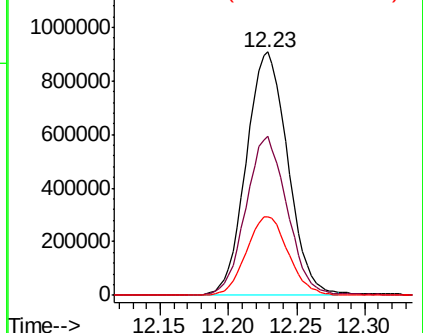
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2890
Delta R.T. -0.01 min
Lab File: VL033833.D
Acq: 29 May 2019 11:28

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3009-55

Tgt Ion:117 Resp: 1922264
Ion Ratio Lower Upper
117 100
82 65.3 49.4 74.0
119 32.8 24.9 37.3

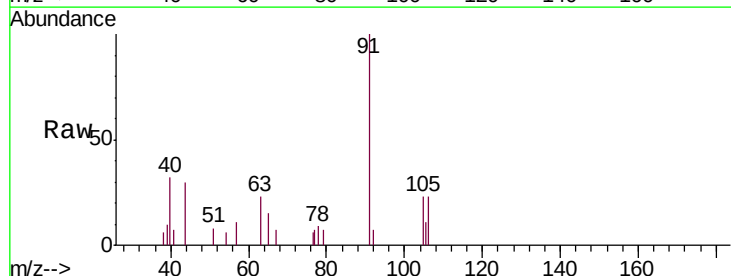


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

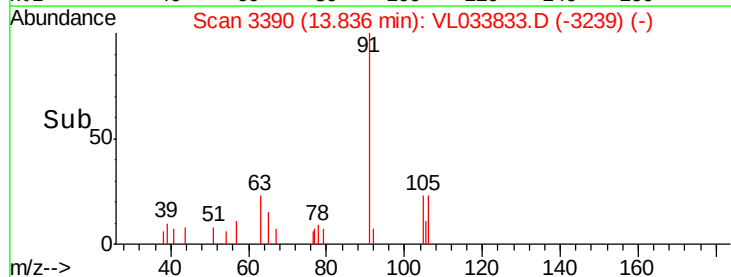
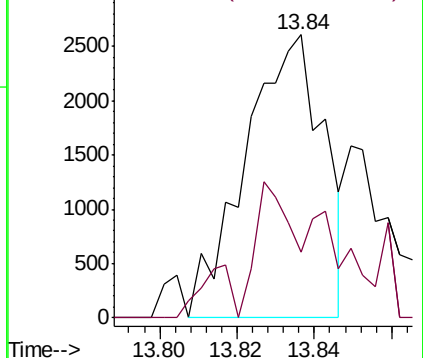


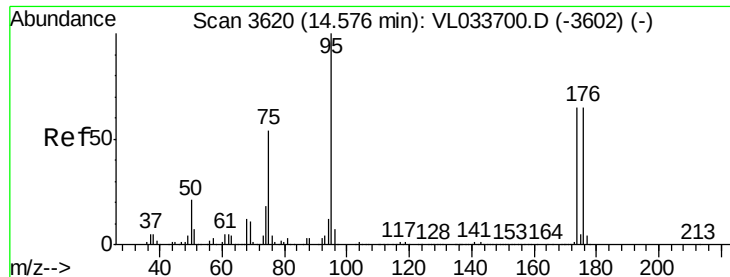
#60
o-Xylene
Concen: 0.016 ppbv
RT: 13.84 min Scan# 3390
Delta R.T. -0.01 min
Lab File: VL033833.D
Acq: 29 May 2019 11:28

Tgt Ion: 91 Resp: 3659
Ion Ratio Lower Upper
91 100
106 55.3 21.6 64.8



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.150 ppbv

RT: 14.56 min Scan# 3616

Delta R.T. -0.01 min

Lab File: VL033833.D

Acq: 29 May 2019 11:28

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3009-55

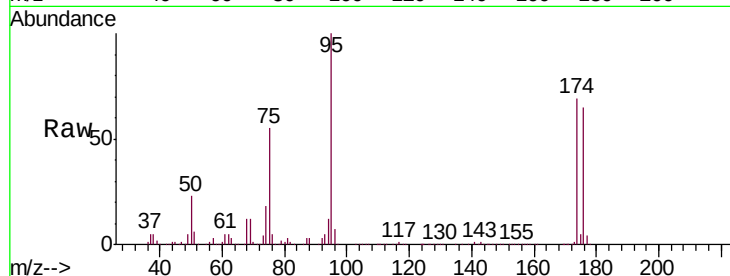
Tgt Ion: 95 Resp: 1581760

Ion Ratio Lower Upper

95 100

174 68.6 53.9 80.9

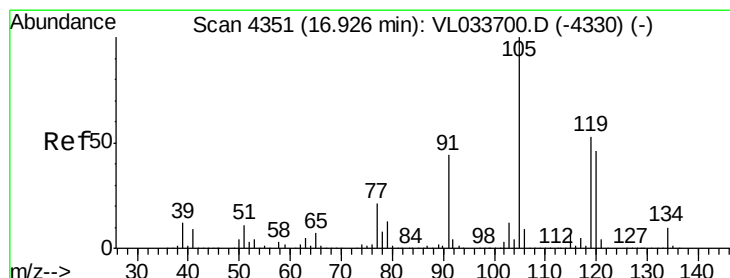
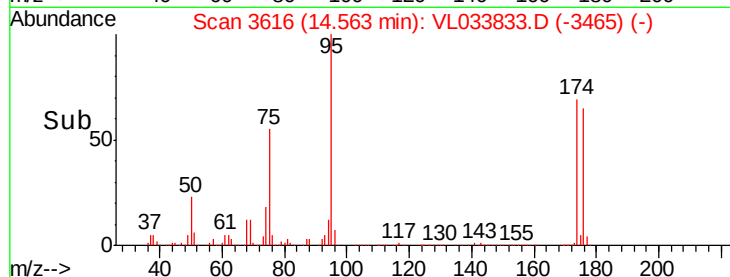
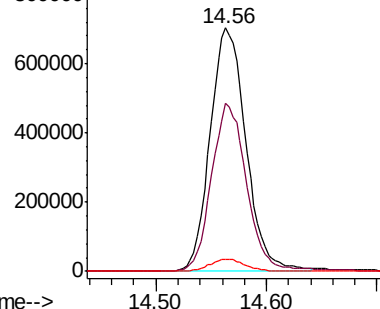
175 5.0 3.8 5.8



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



#74

1,2,4-Trimethylbenzene

Concen: 0.027 ppbv

RT: 16.92 min Scan# 4348

Delta R.T. -0.01 min

Lab File: VL033833.D

Acq: 29 May 2019 11:28

Tgt Ion: 105 Resp: 7343

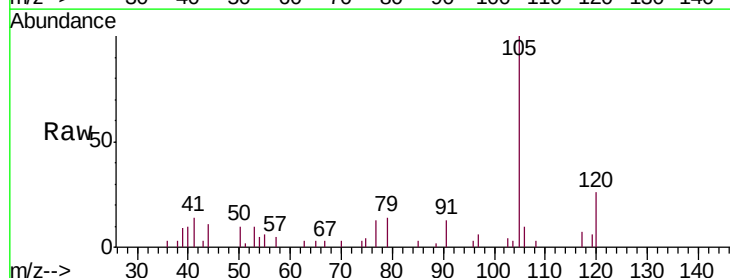
Ion Ratio Lower Upper

105 100

120 33.4 36.8 55.2#

91 0.0 35.4 53.0#

77 8.4 16.8 25.2#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

