

Data File : VL033807.D
Acq On : 28 May 2019 16:22
Operator : SY/AP
Sample : K2929-12DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3008-25DL

Quant Time: May 29 04:38:11 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 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	963654	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2533406	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.23	117	2380621	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.56	95	1851272	9.59	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.90%

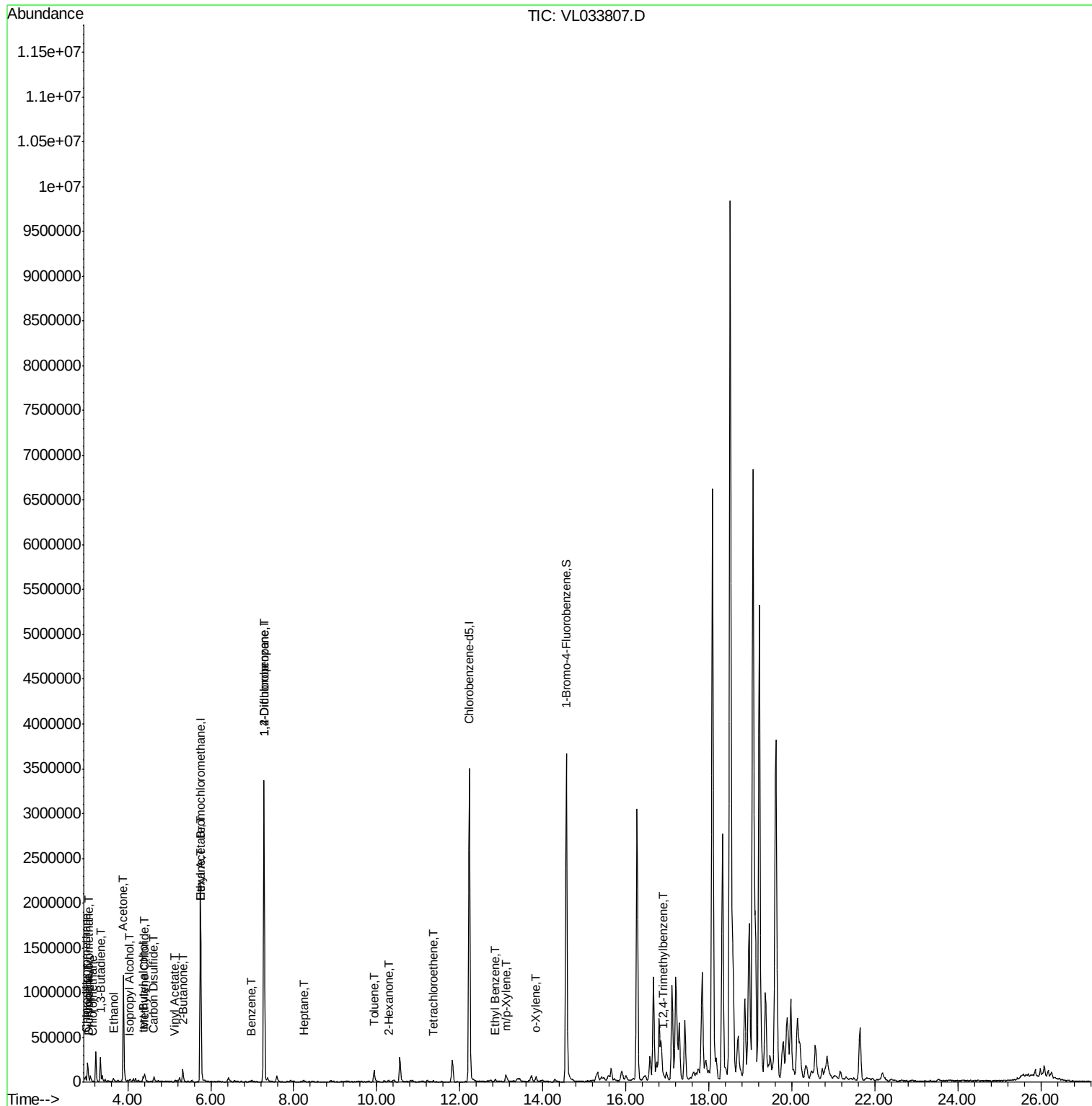
Target Compounds	Qvalue					
2) Dichlorodifluoromethane	3.08	85	7644	0.038	ppbv #	86
3) Chlorodifluoromethane	2.99	51	29509	0.267	ppbv #	65
4) Chloromethane	3.17	50	803	0.013	ppbv #	84
9) Propene	3.04	41	76505	1.629	ppbv	90
10) Heptane	8.23	43	3223	0.024	ppbv #	26
13) Ethanol	3.65	45	39092	2.576	ppbv	98
15) Acetone	3.90	43	1180659	8.831	ppbv	95
16) 1,3-Butadiene	3.34	39	72913	1.369	ppbv #	21
17) tert-Butyl alcohol	4.37	59	21131	0.195	ppbv #	79
19) Isopropyl Alcohol	4.03	45	4477	0.052	ppbv #	94
20) Methylene Chloride	4.40	84	18725	0.364	ppbv	90
23) Vinyl Acetate	5.14	43	6072	0.034	ppbv #	86
25) Ethyl Acetate	5.77	43	28975	0.123	ppbv #	84
26) Hexane	5.77	57	36778	0.364	ppbv #	44
27) Carbon Disulfide	4.62	76	15365	0.111	ppbv #	55
34) 2-Butanone	5.33	43	163443	1.041	ppbv	95
36) Benzene	6.99	78	8518	0.037	ppbv #	83
39) 1,2-Dichloropropane	7.28	63	599519	6.978	ppbv #	22
51) 2-Hexanone	10.28	43	13397	0.071	ppbv #	87
52) Tetrachloroethene	11.36	164	1240	0.015	ppbv	94
53) Toluene	9.93	91	103852	0.418	ppbv	100
58) Ethyl Benzene	12.85	91	9372	0.030	ppbv	90
59) m/p-Xylene	13.13	91	23885	0.087	ppbv #	31
60) o-Xylene	13.84	91	27344	0.098	ppbv	93
74) 1,2,4-Trimethylbenzene	16.91	105	14553	0.043	ppbv #	68

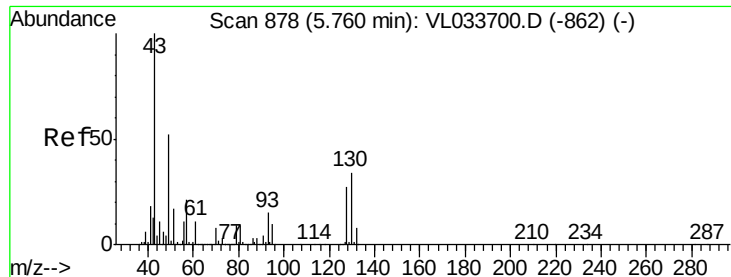
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.01 min

Lab File: VL033807.D

Acq: 28 May 2019 16:22

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3008-25DL

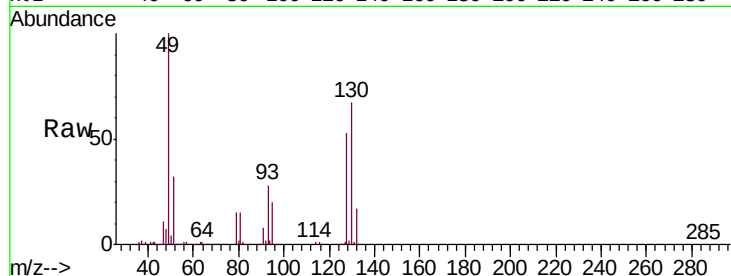
Tgt Ion: 49 Resp: 963654

Ion Ratio Lower Upper

49 100

128 53.6 25.2 75.6

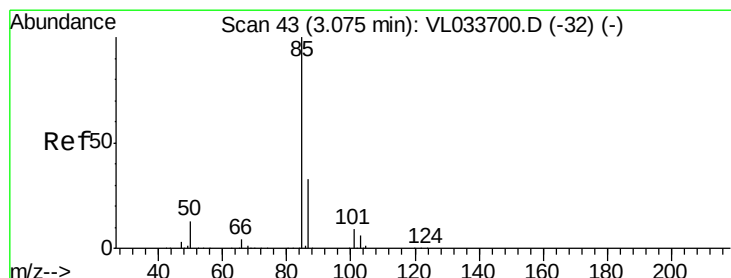
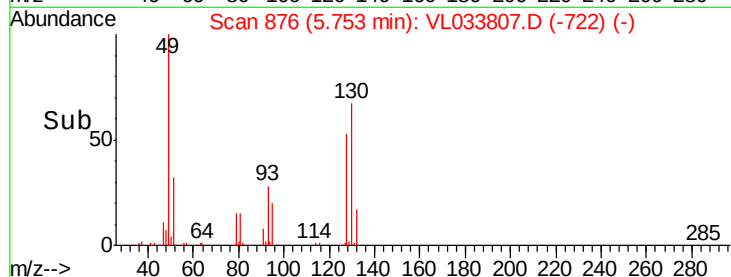
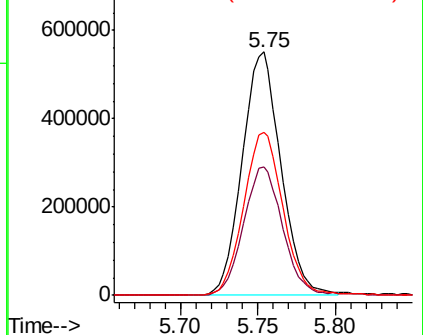
130 68.6 32.5 97.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.038 ppbv

RT: 3.08 min Scan# 43

Delta R.T. 0.00 min

Lab File: VL033807.D

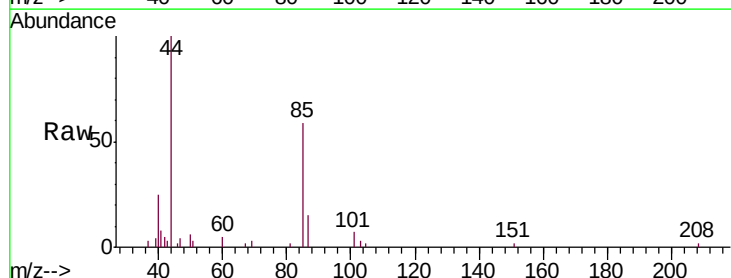
Acq: 28 May 2019 16:22

Tgt Ion: 85 Resp: 7644

Ion Ratio Lower Upper

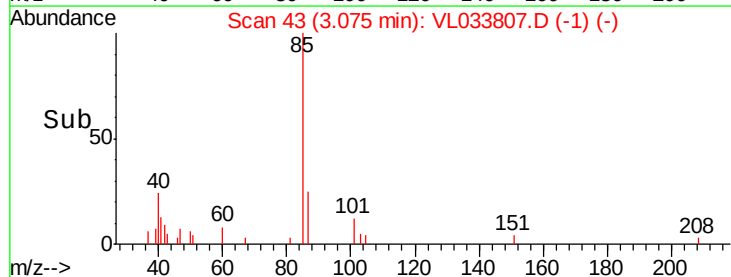
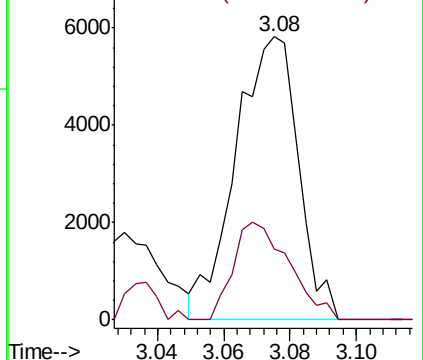
85 100

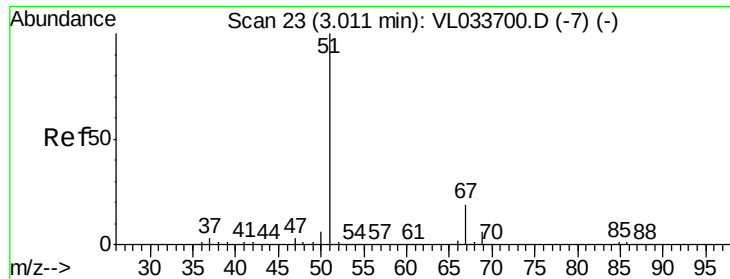
87 24.9 26.3 39.5#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.267 ppbv

RT: 2.99 min Scan# 15

Delta R.T. -0.03 min

Lab File: VL033807.D

Acq: 28 May 2019 16:22

Instrument :

MSVOA_L

ClientSampleId :

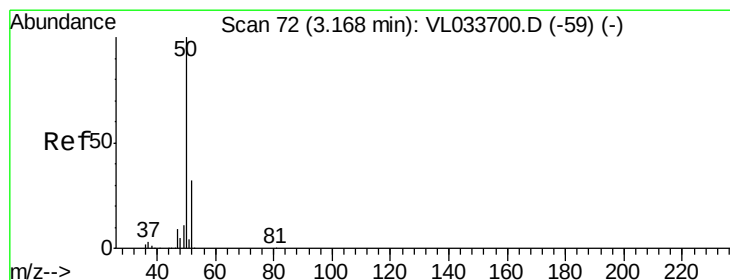
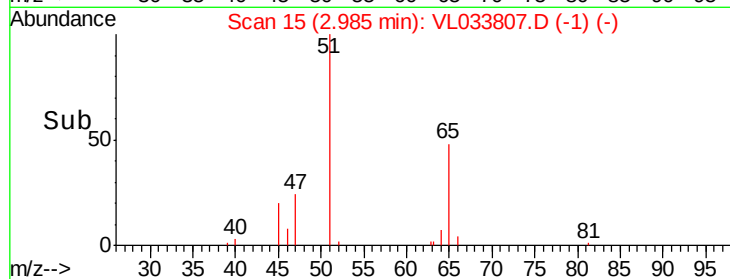
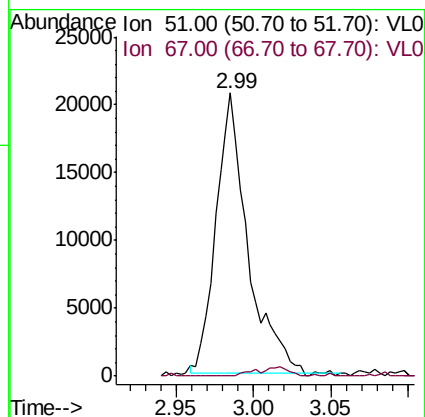
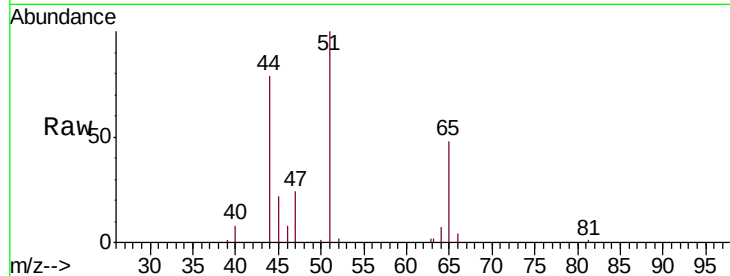
BPS1-SG-3008-25DL

Tgt Ion: 51 Resp: 29509

Ion Ratio Lower Upper

51 100

67 3.4 15.6 23.4#



#4

Chloromethane

Concen: 0.013 ppbv

RT: 3.17 min Scan# 72

Delta R.T. 0.00 min

Lab File: VL033807.D

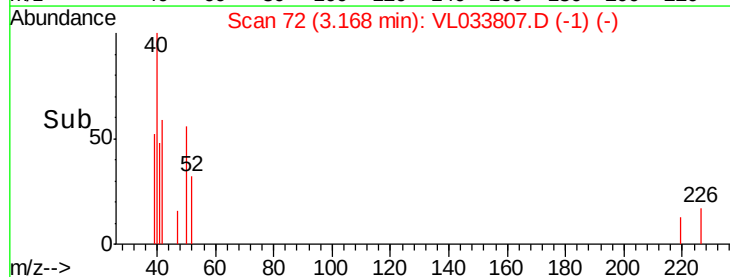
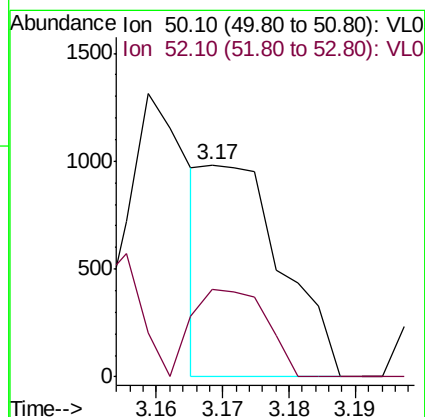
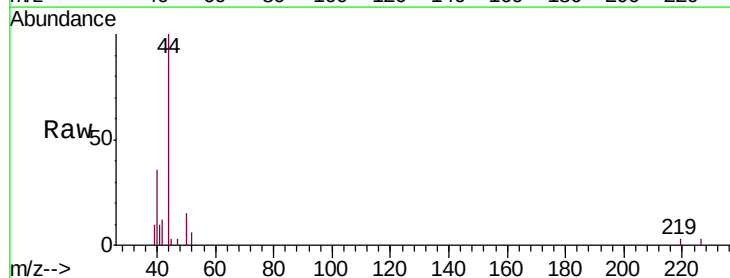
Acq: 28 May 2019 16:22

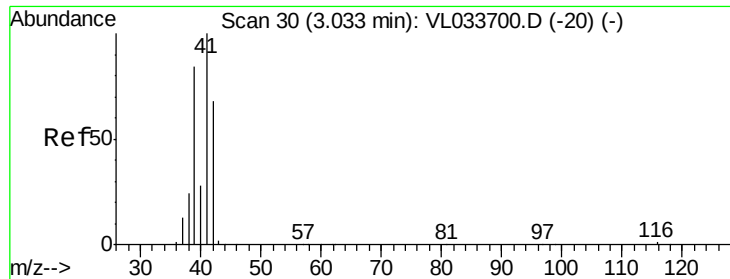
Tgt Ion: 50 Resp: 803

Ion Ratio Lower Upper

50 100

52 41.1 25.7 38.5#





#9

Propene

Concen: 1.629 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033807.D

Acq: 28 May 2019 16:22

Instrument :

MSVOA_L

ClientSampleId :

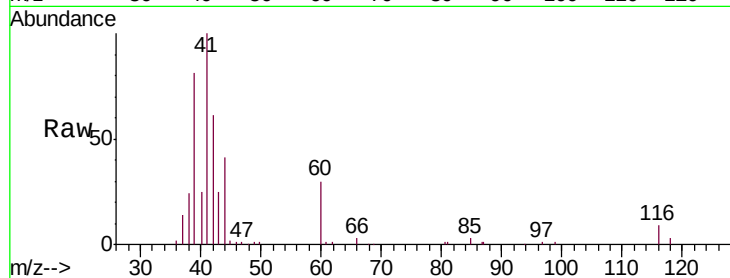
BPS1-SG-3008-25DL

Tgt Ion: 41 Resp: 76505

Ion Ratio Lower Upper

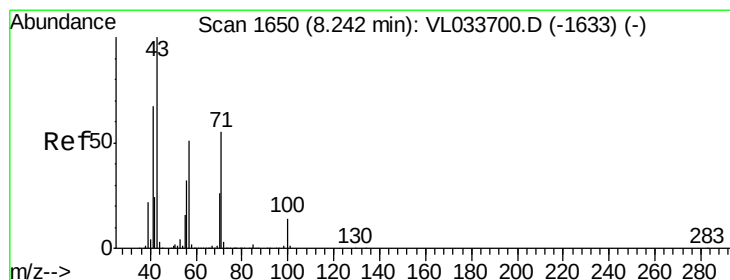
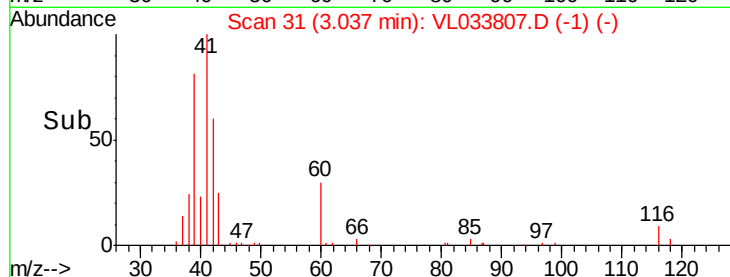
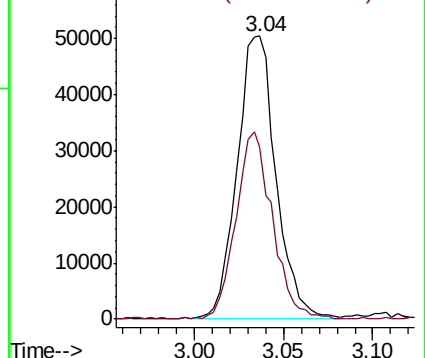
41 100

42 62.2 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: 0.024 ppbv

RT: 8.23 min Scan# 1646

Delta R.T. -0.01 min

Lab File: VL033807.D

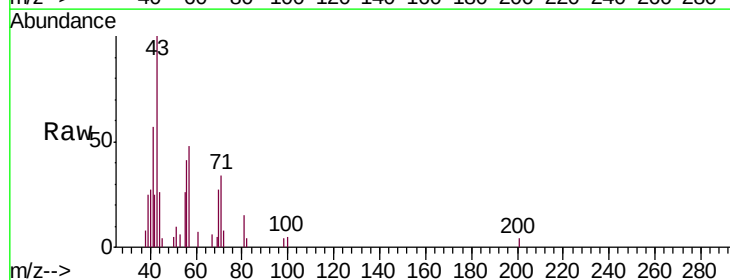
Acq: 28 May 2019 16:22

Tgt Ion: 43 Resp: 3223

Ion Ratio Lower Upper

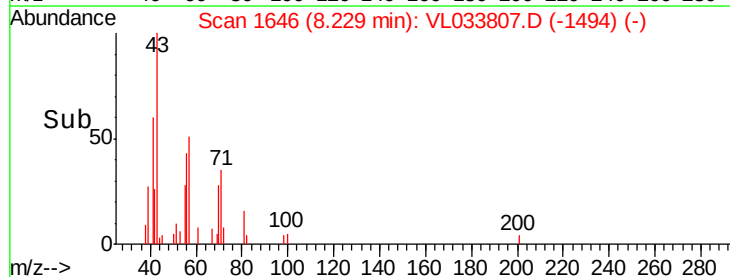
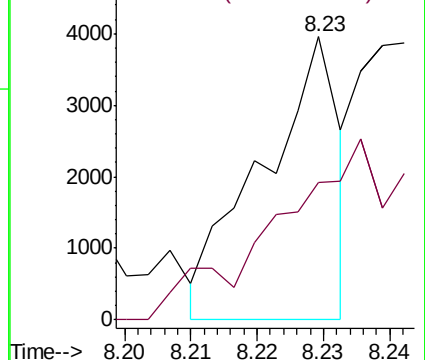
43 100

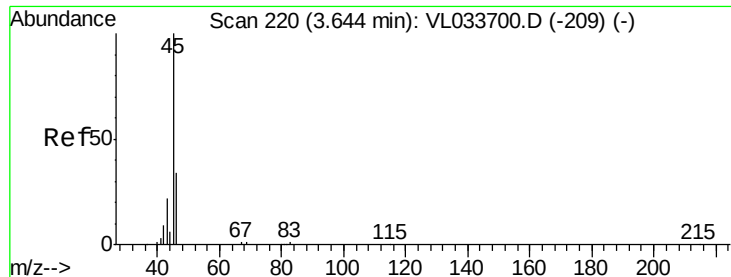
57 0.0 41.4 62.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#13

Ethanol

Concen: 2.576 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.01 min

Lab File: VL033807.D

Acq: 28 May 2019 16:22

Instrument :

MSVOA_L

ClientSampleId :

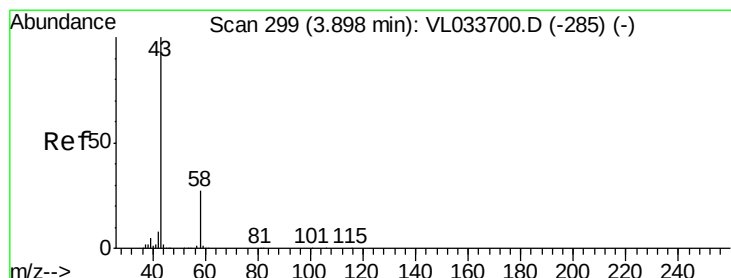
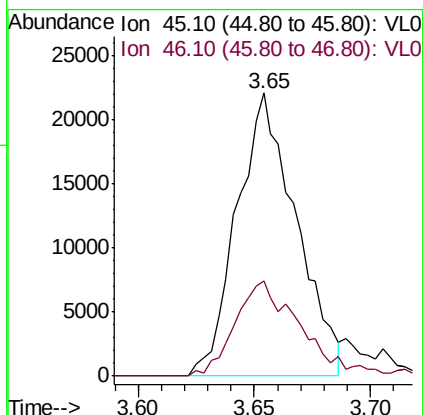
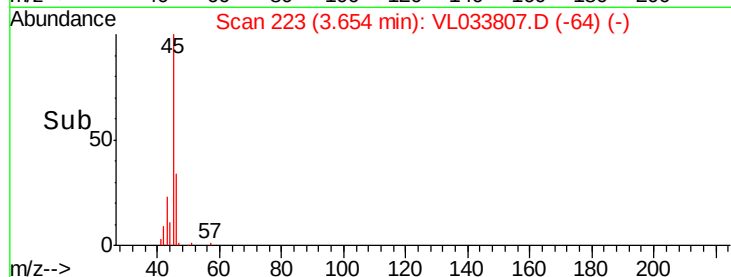
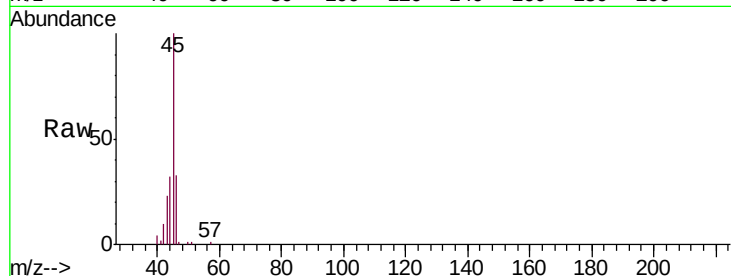
BPS1-SG-3008-25DL

Tgt Ion: 45 Resp: 39092

Ion Ratio Lower Upper

45 100

46 38.0 14.8 59.0



#15

Acetone

Concen: 8.831 ppbv

RT: 3.90 min Scan# 298

Delta R.T. -0.00 min

Lab File: VL033807.D

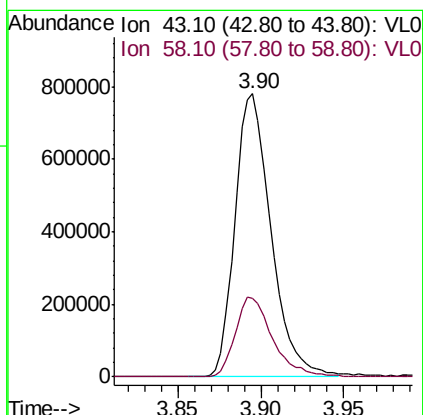
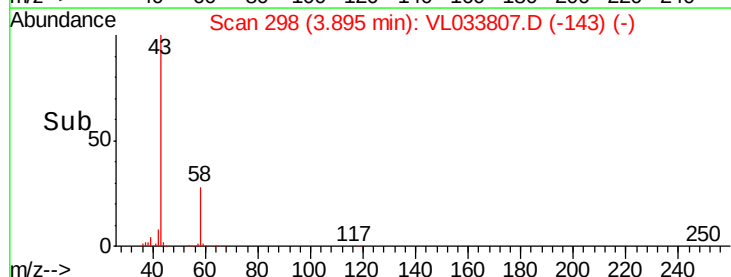
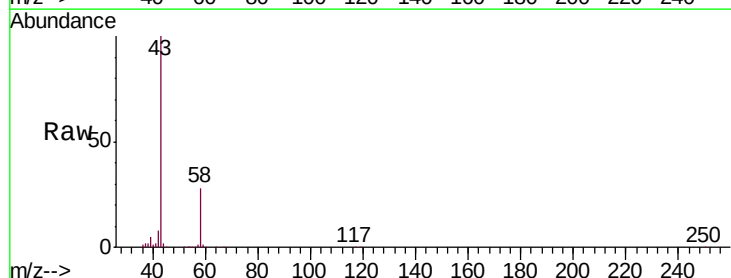
Acq: 28 May 2019 16:22

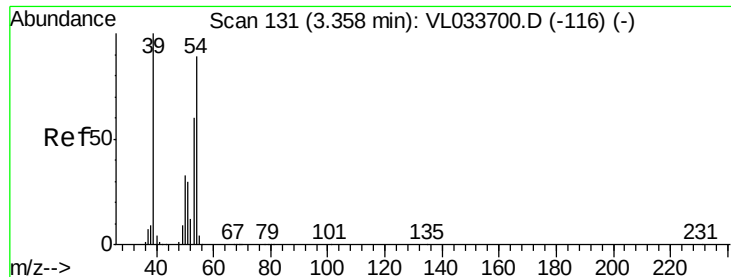
Tgt Ion: 43 Resp: 1180659

Ion Ratio Lower Upper

43 100

58 29.3 21.3 31.9

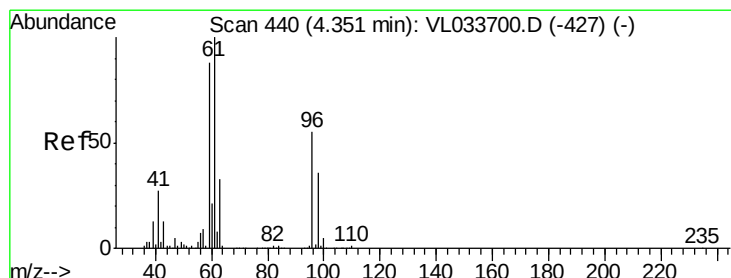
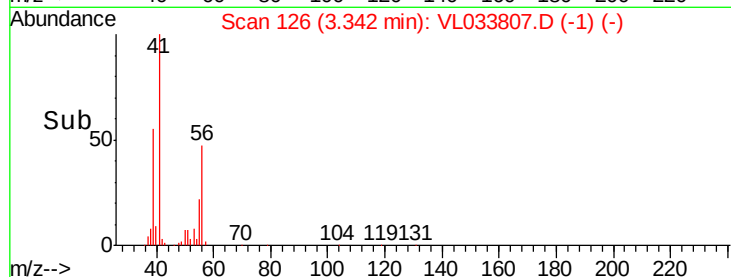
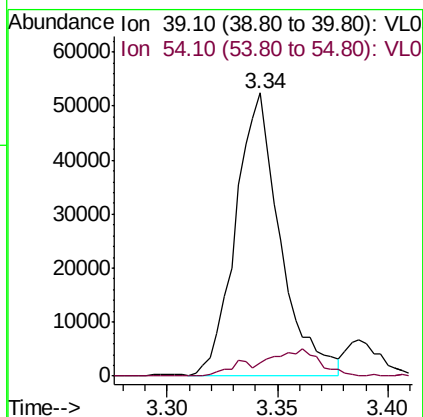
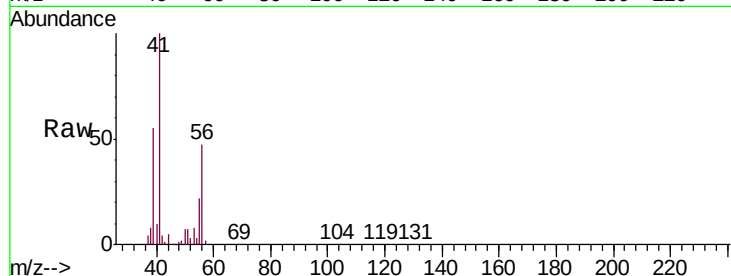




#16
 1,3-Butadiene
 Concen: 1.369 ppbv
 RT: 3.34 min Scan# 126
 Delta R.T. -0.02 min
 Lab File: VL033807.D
 Acq: 28 May 2019 16:22

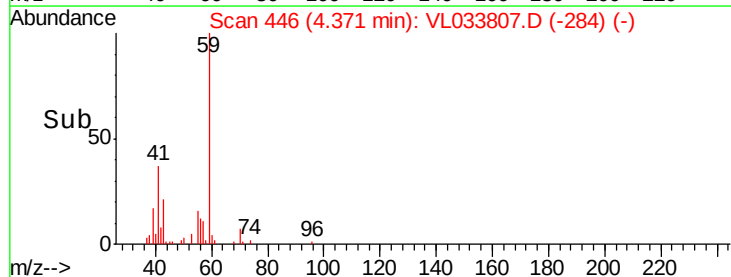
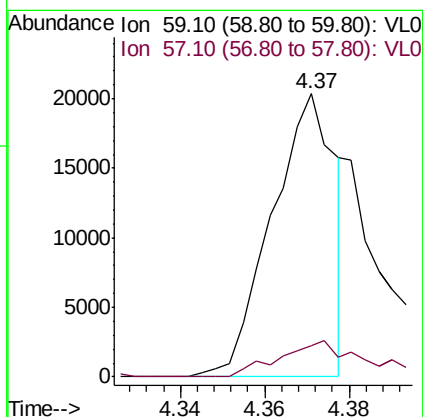
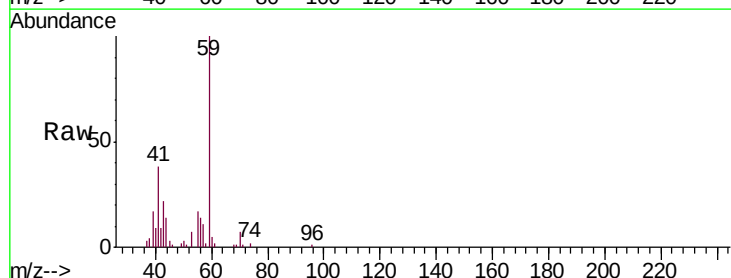
Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3008-25DL

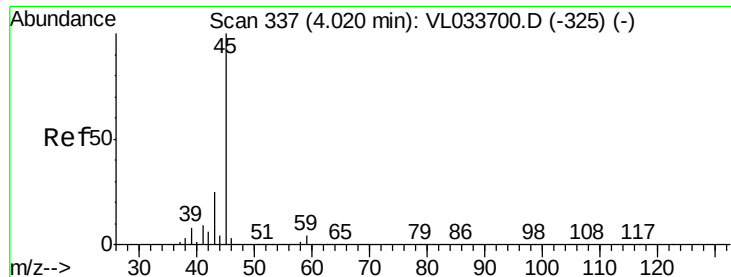
Tgt Ion: 39 Resp: 72913
 Ion Ratio Lower Upper
 39 100
 54 13.4 69.0 103.6#



#17
 tert-Butyl alcohol
 Concen: 0.195 ppbv
 RT: 4.37 min Scan# 446
 Delta R.T. 0.02 min
 Lab File: VL033807.D
 Acq: 28 May 2019 16:22

Tgt Ion: 59 Resp: 21131
 Ion Ratio Lower Upper
 59 100
 57 18.4 8.4 12.6#





#19

Isopropyl Alcohol

Concen: 0.052 ppbv

RT: 4.03 min Scan# 340

Delta R.T. 0.01 min

Lab File: VL033807.D

Acq: 28 May 2019 16:22

Instrument :

MSVOA_L

ClientSampleId :

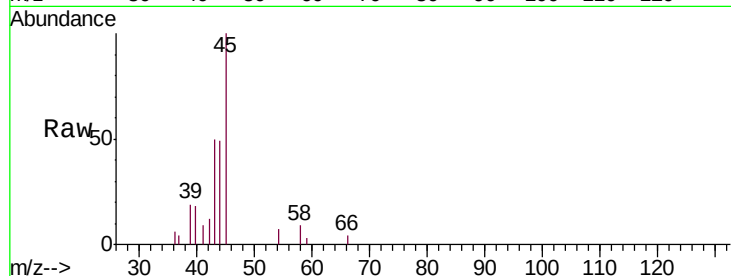
BPS1-SG-3008-25DL

Tgt Ion: 45 Resp: 4477

Ion Ratio Lower Upper

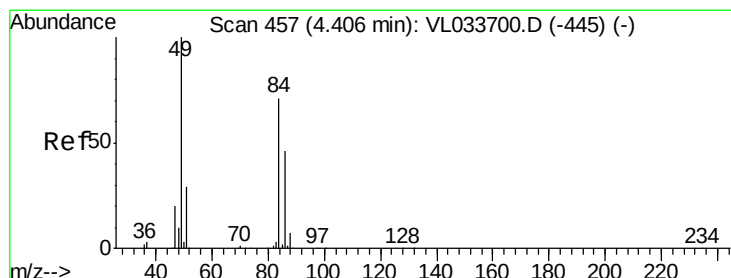
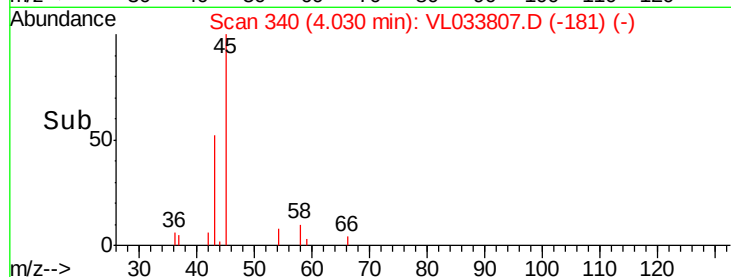
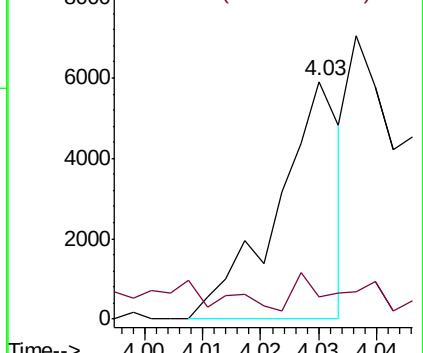
45 100

58 0.0 1.6 2.4#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.364 ppbv

RT: 4.40 min Scan# 455

Delta R.T. -0.01 min

Lab File: VL033807.D

Acq: 28 May 2019 16:22

Tgt Ion: 84 Resp: 18725

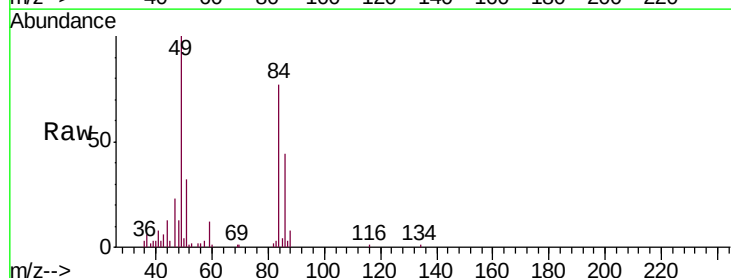
Ion Ratio Lower Upper

84 100

49 125.3 112.8 169.2

51 39.9 33.4 50.0

86 57.2 51.7 77.5

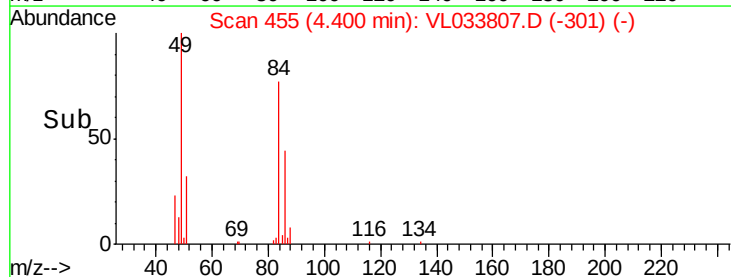
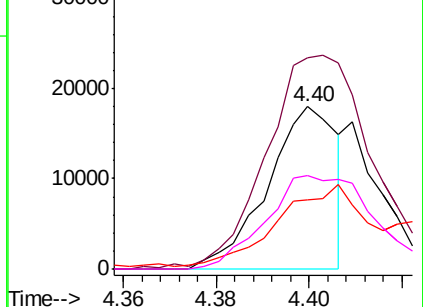


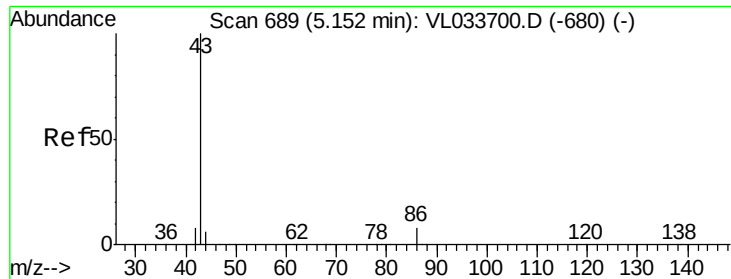
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#23

Vinyl Acetate

Concen: 0.034 ppbv

RT: 5.14 min Scan# 686

Delta R.T. -0.01 min

Lab File: VL033807.D

Acq: 28 May 2019 16:22

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3008-25DL

Tgt Ion: 43 Resp: 6072

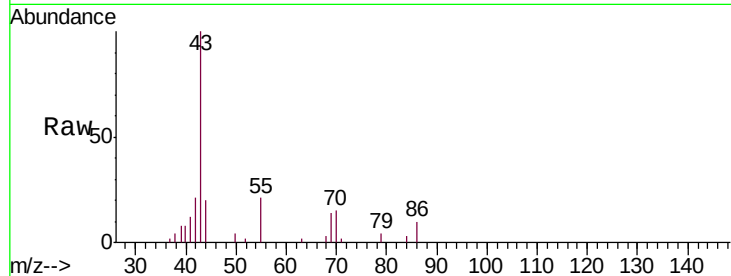
Ion Ratio Lower Upper

43 100

86 6.6 6.0 9.0

42 20.2 7.5 11.3#

44 4.3 4.4 6.6#

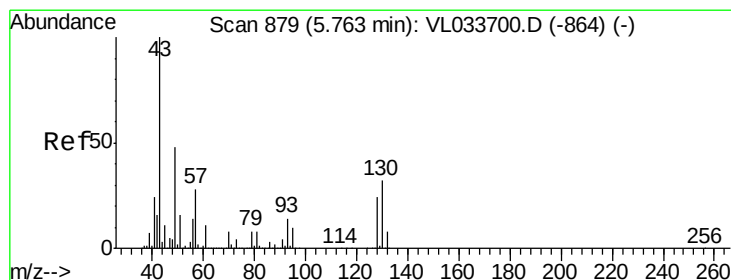
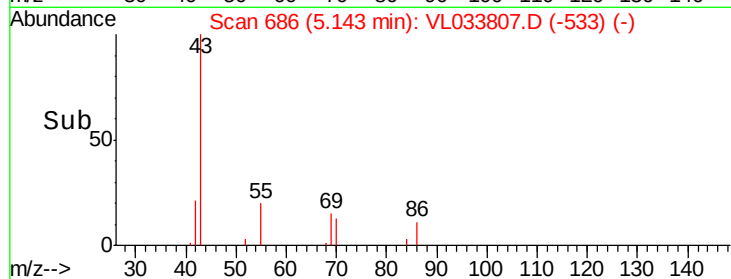
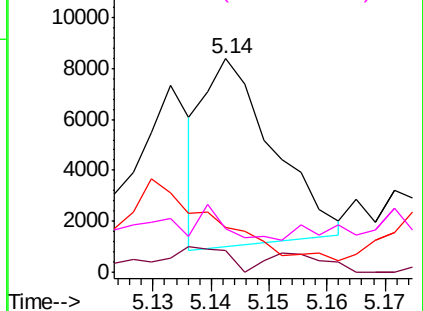


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.123 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.01 min

Lab File: VL033807.D

Acq: 28 May 2019 16:22

Tgt Ion: 43 Resp: 28975

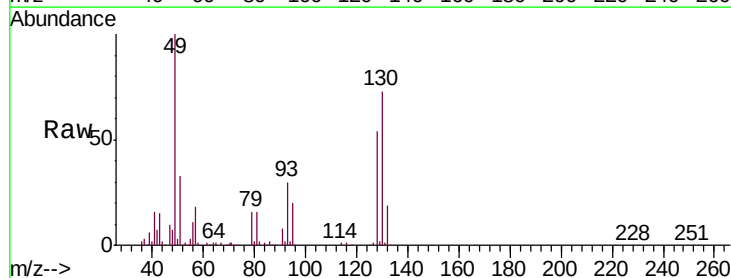
Ion Ratio Lower Upper

43 100

45 4.2 7.9 11.9#

61 1.7 7.7 11.5#

70 3.9 5.8 8.6#

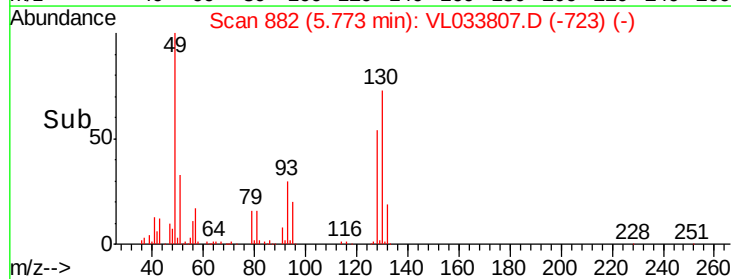
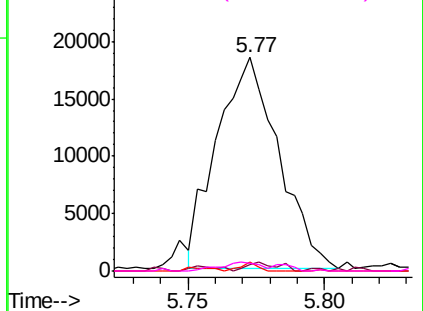


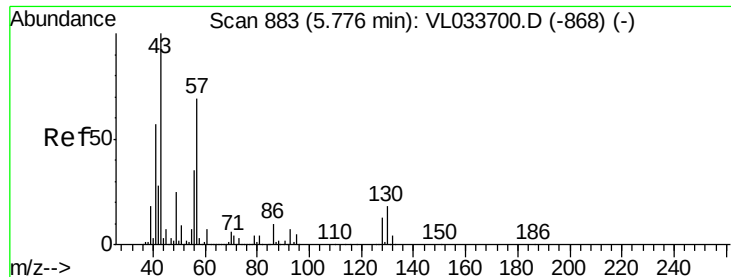
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

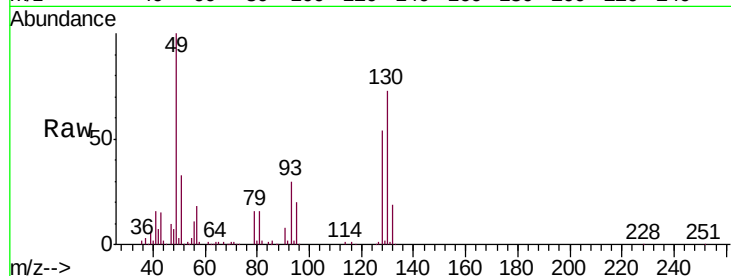




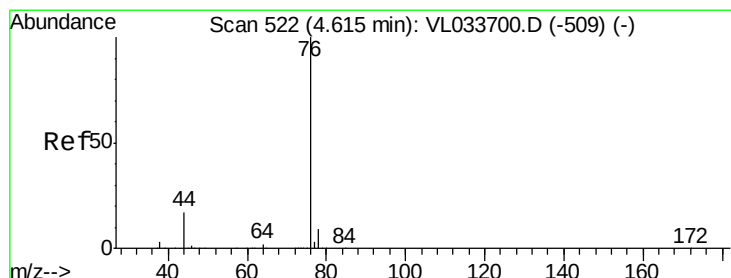
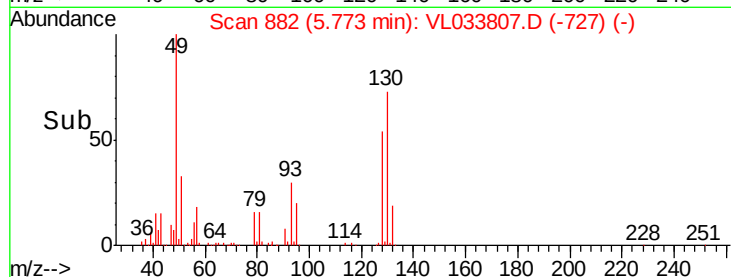
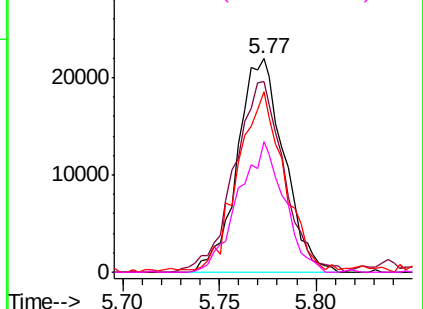
#26
Hexane
Concen: 0.364 ppbv
RT: 5.77 min Scan# 882
Delta R.T. -0.00 min
Lab File: VL033807.D
Acq: 28 May 2019 16:22

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3008-25DL

Tgt Ion: 57 Resp: 36778
Ion Ratio Lower Upper
57 100
41 95.1 69.8 104.6
43 87.6 181.8 272.6#
56 60.4 42.1 63.1

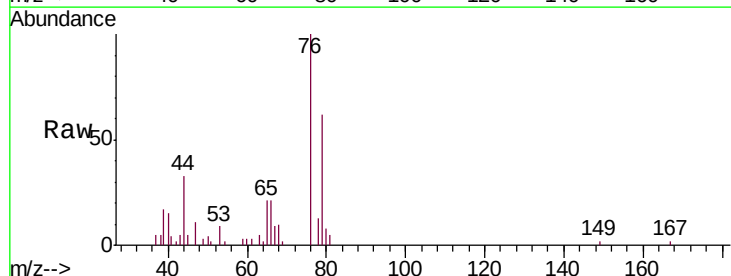


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

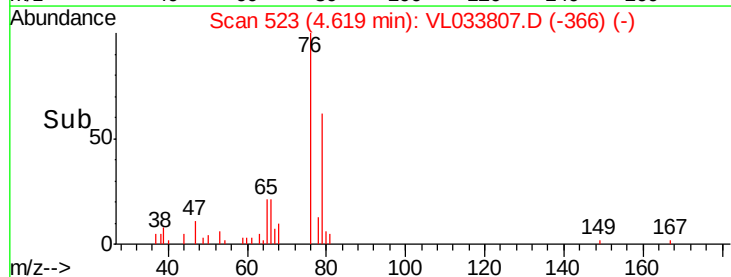
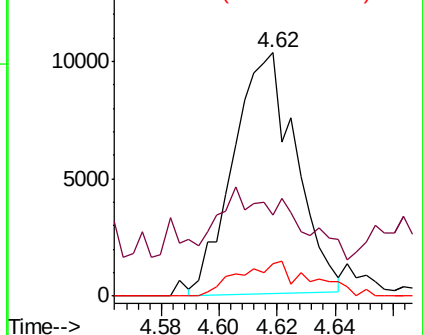


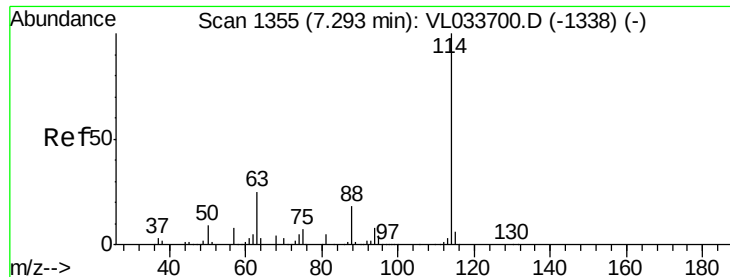
#27
Carbon Disulfide
Concen: 0.111 ppbv
RT: 4.62 min Scan# 523
Delta R.T. 0.00 min
Lab File: VL033807.D
Acq: 28 May 2019 16:22

Tgt Ion: 76 Resp: 15365
Ion Ratio Lower Upper
76 100
44 42.1 13.8 20.8#
78 17.6 7.4 11.0#



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0

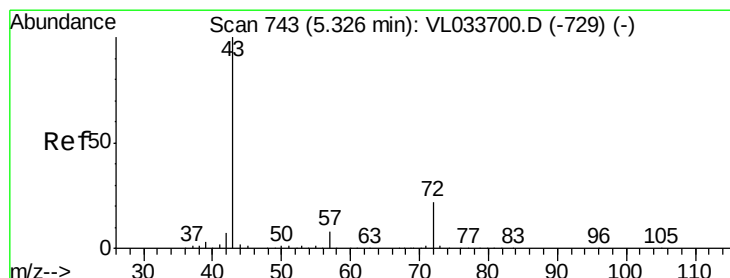
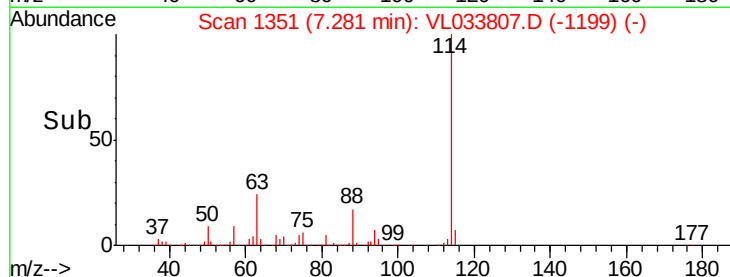
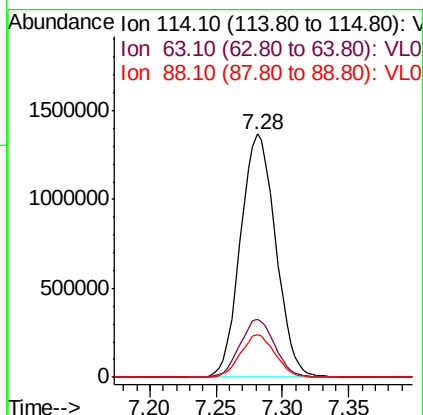
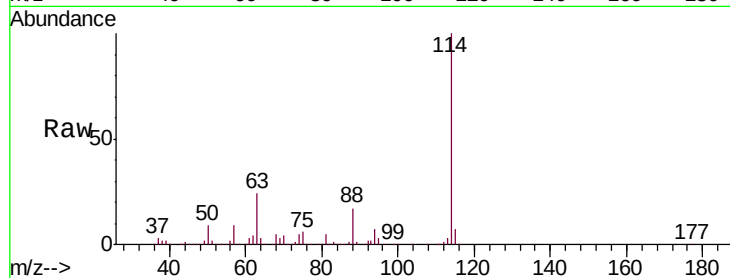




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1351
 Delta R.T. -0.01 min
 Lab File: VL033807.D
 Acq: 28 May 2019 16:22

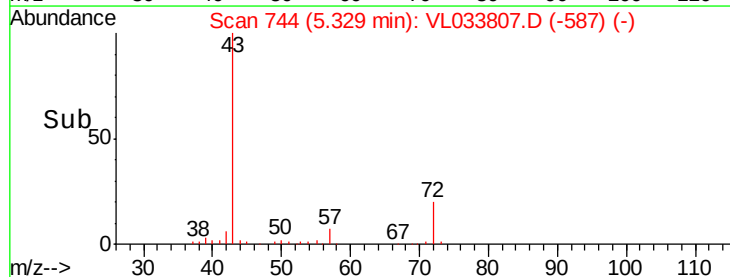
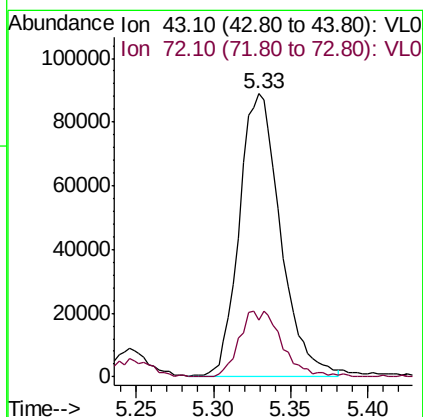
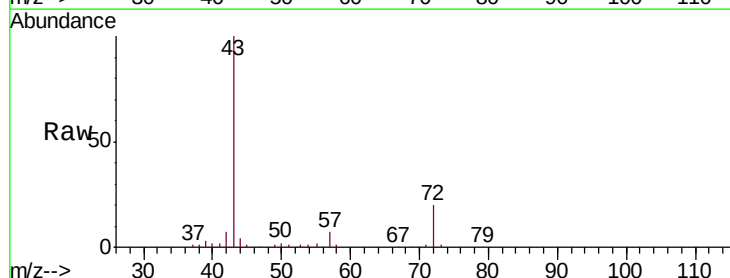
Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3008-25DL

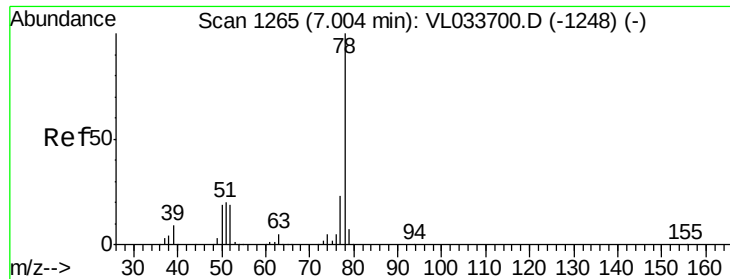
Tgt Ion: 114 Resp: 2533406
 Ion Ratio Lower Upper
 114 100
 63 23.8 20.9 31.3
 88 17.2 14.3 21.5



#34
 2-Butanone
 Concen: 1.041 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. 0.00 min
 Lab File: VL033807.D
 Acq: 28 May 2019 16:22

Tgt Ion: 43 Resp: 163443
 Ion Ratio Lower Upper
 43 100
 72 24.4 17.8 26.6





#36

Benzene

Concen: 0.037 ppbv

RT: 6.99 min Scan# 1262

Delta R.T. -0.01 min

Lab File: VL033807.D

Acq: 28 May 2019 16:22

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3008-25DL

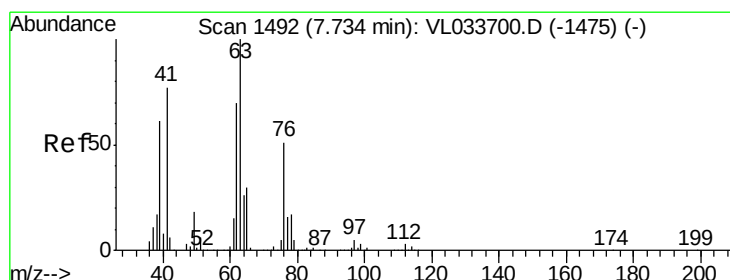
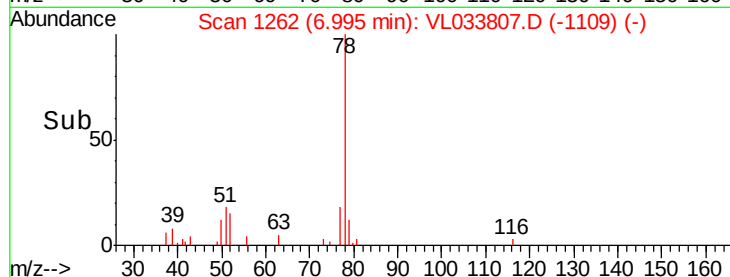
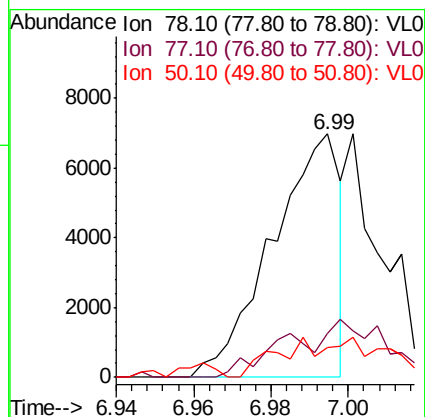
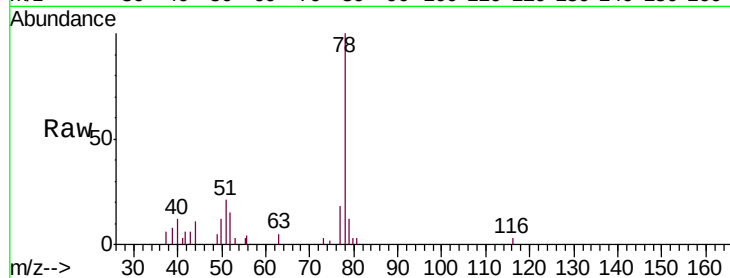
Tgt Ion: 78 Resp: 8518

Ion Ratio Lower Upper

78 100

77 18.1 18.4 27.6#

50 8.3 15.5 23.3#



#39

1,2-Dichloropropane

Concen: 6.978 ppbv

RT: 7.28 min Scan# 1351

Delta R.T. -0.45 min

Lab File: VL033807.D

Acq: 28 May 2019 16:22

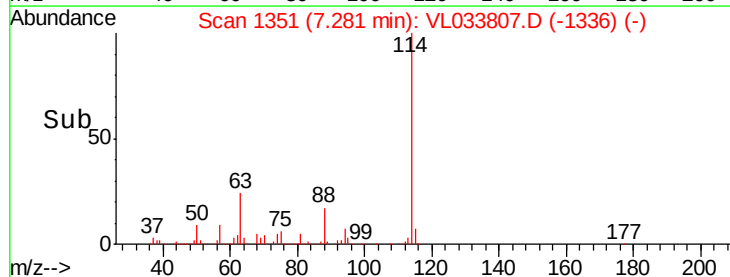
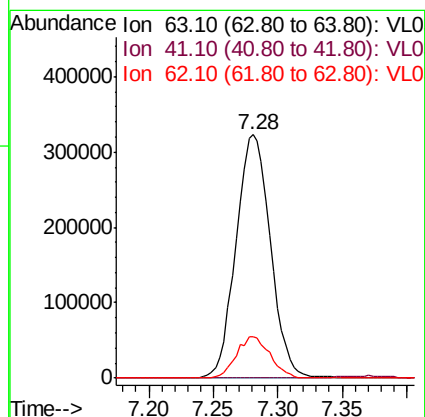
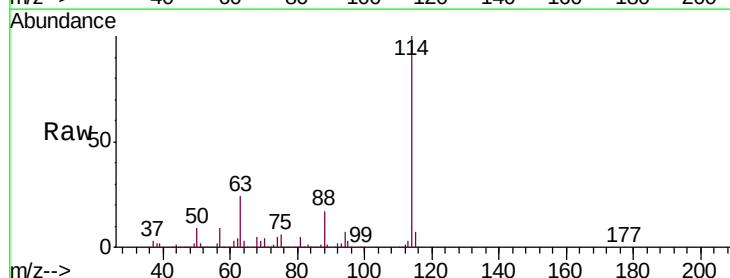
Tgt Ion: 63 Resp: 599519

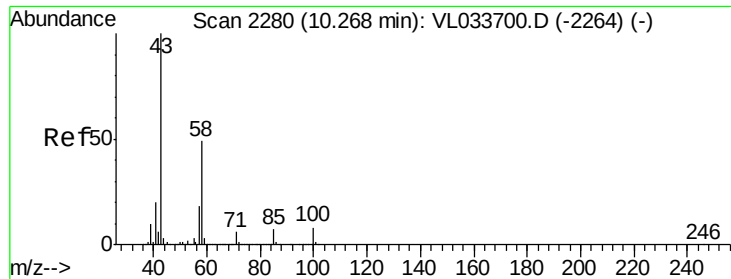
Ion Ratio Lower Upper

63 100

41 0.0 61.5 92.3#

62 16.9 56.2 84.4#

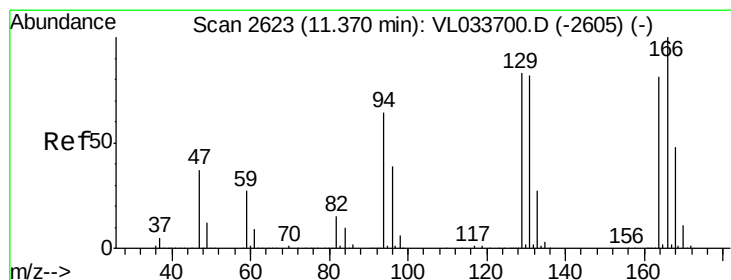
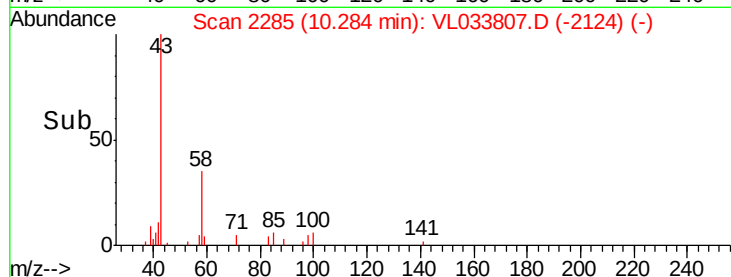
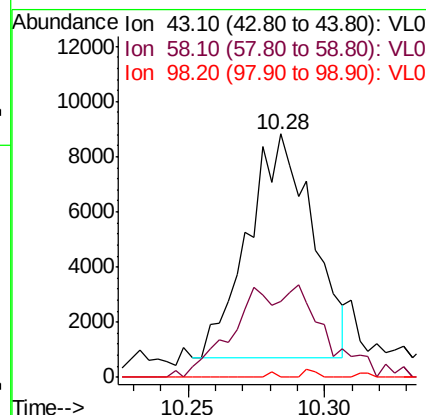
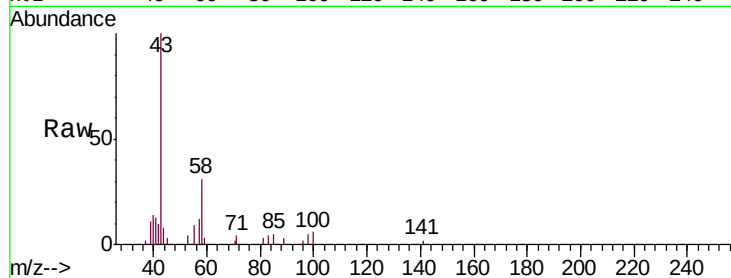




#51
2-Hexanone
Concen: 0.071 ppbv
RT: 10.28 min Scan# 2285
Delta R.T. 0.02 min
Lab File: VL033807.D
Acq: 28 May 2019 16:22

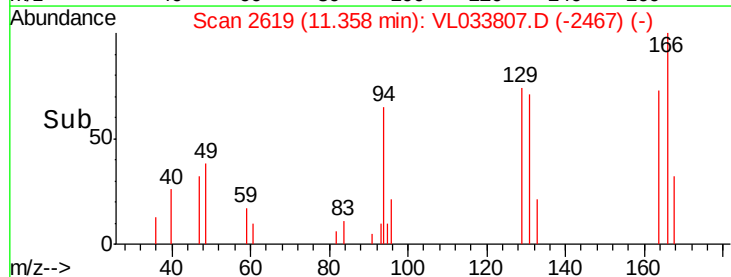
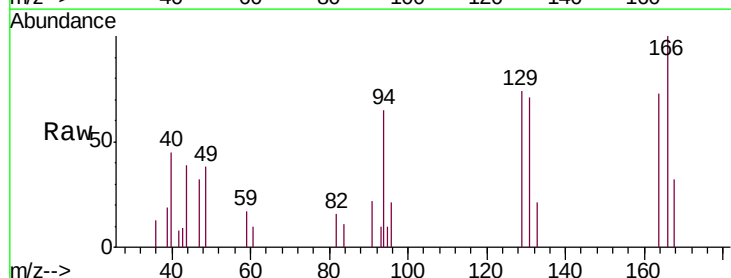
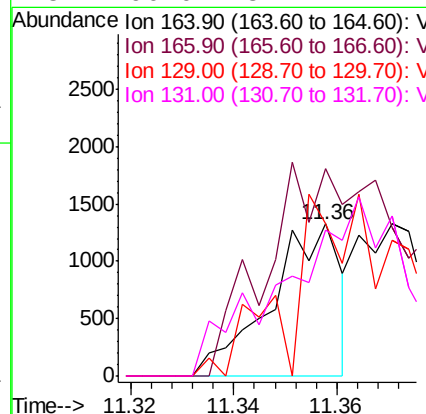
Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3008-25DL

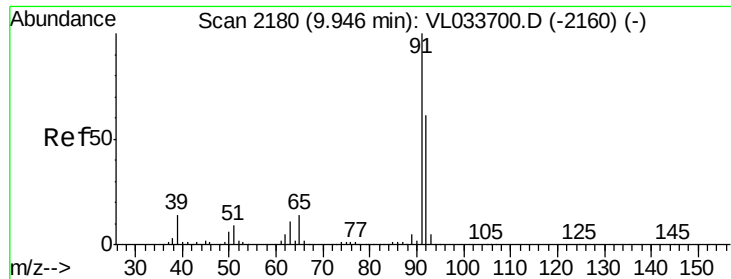
Tgt Ion: 43 Resp: 13397
Ion Ratio Lower Upper
43 100
58 56.9 38.7 58.1
98 1.0 0.2 0.4#



#52
Tetrachloroethene
Concen: 0.015 ppbv
RT: 11.36 min Scan# 2619
Delta R.T. -0.01 min
Lab File: VL033807.D
Acq: 28 May 2019 16:22

Tgt Ion: 164 Resp: 1240
Ion Ratio Lower Upper
164 100
166 136.1 98.9 148.3
129 100.2 81.8 122.6
131 96.0 81.1 121.7





#53

Toluene

Concen: 0.418 ppbv

RT: 9.93 min Scan# 2176

Delta R.T. -0.01 min

Lab File: VL033807.D

Acq: 28 May 2019 16:22

Instrument :

MSVOA_L

ClientSampleId :

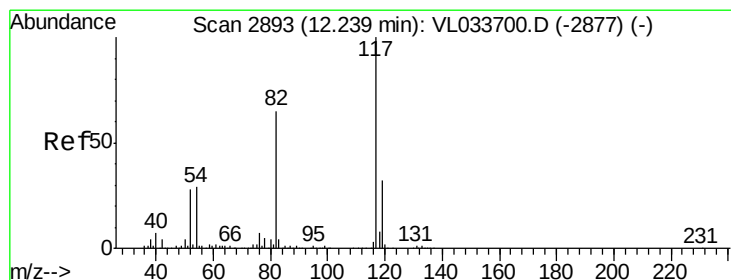
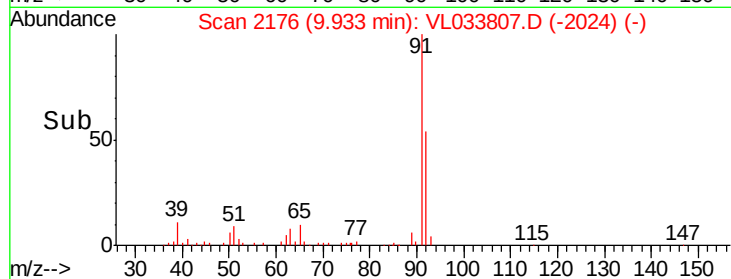
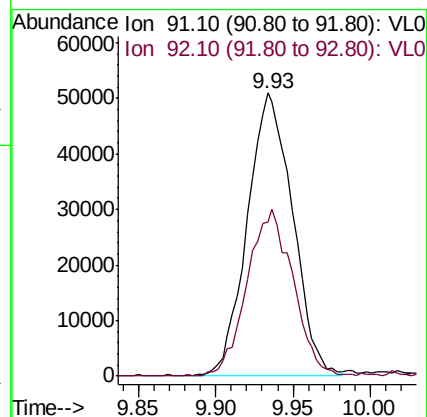
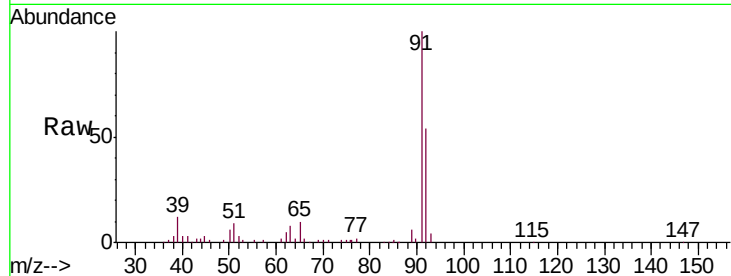
BPS1-SG-3008-25DL

Tgt Ion: 91 Resp: 103852

Ion Ratio Lower Upper

91 100

92 59.7 47.6 71.4



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2889

Delta R.T. -0.01 min

Lab File: VL033807.D

Acq: 28 May 2019 16:22

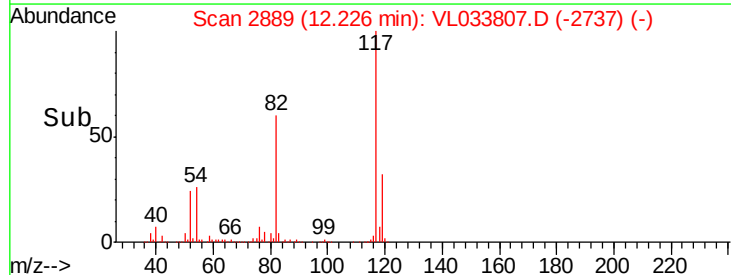
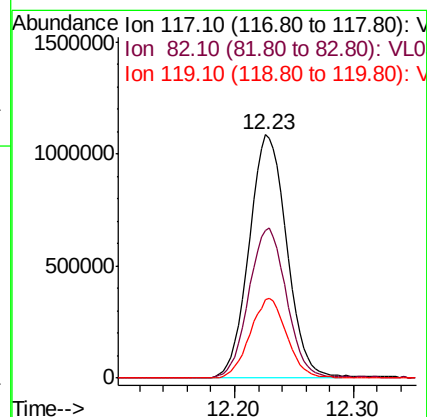
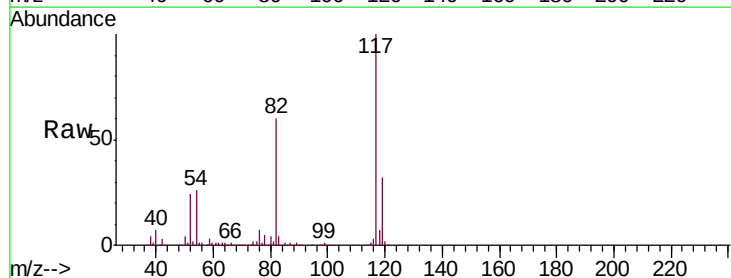
Tgt Ion: 117 Resp: 2380621

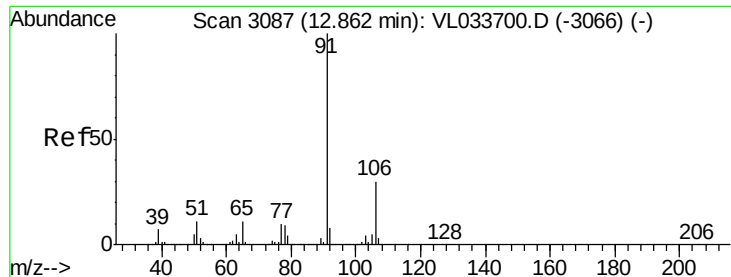
Ion Ratio Lower Upper

117 100

82 62.6 49.4 74.0

119 32.3 24.9 37.3





#58

Ethyl Benzene

Concen: 0.030 ppbv

RT: 12.85 min Scan# 3082

Delta R.T. -0.02 min

Lab File: VL033807.D

Acq: 28 May 2019 16:22

Instrument :

MSVOA_L

ClientSampleId :

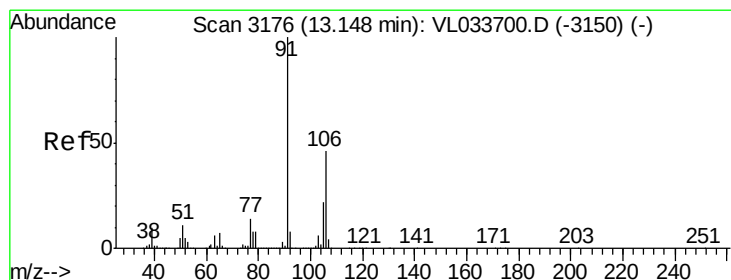
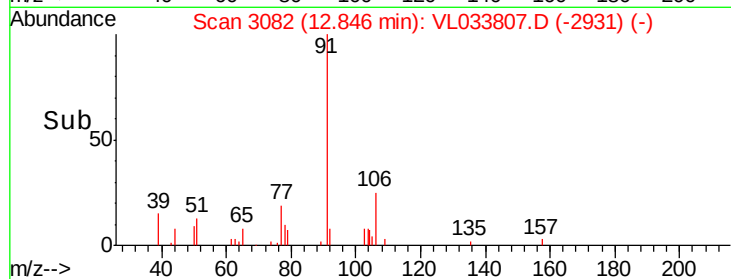
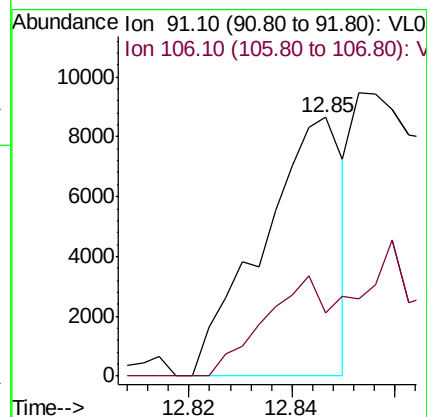
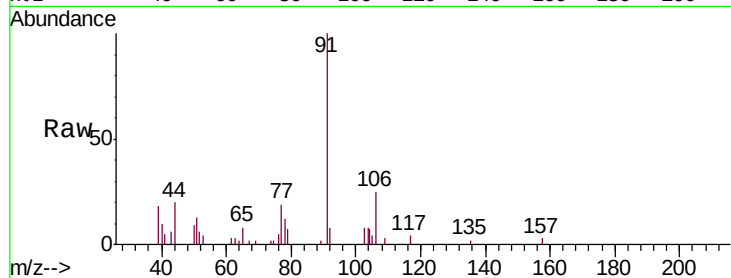
BPS1-SG-3008-25DL

Tgt Ion: 91 Resp: 9372

Ion Ratio Lower Upper

91 100

106 24.5 23.9 35.9



#59

m/p-Xylene

Concen: 0.087 ppbv

RT: 13.13 min Scan# 3171

Delta R.T. -0.02 min

Lab File: VL033807.D

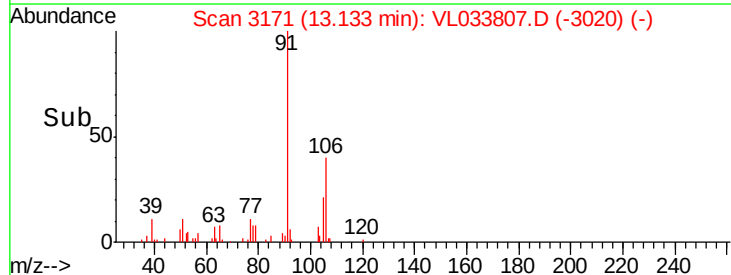
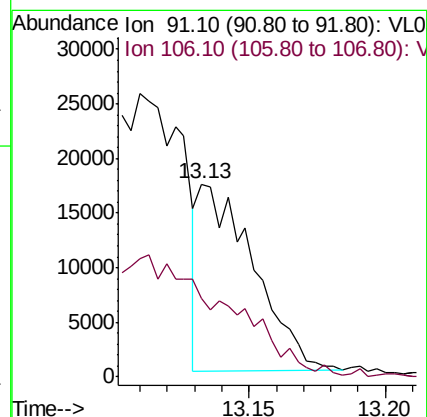
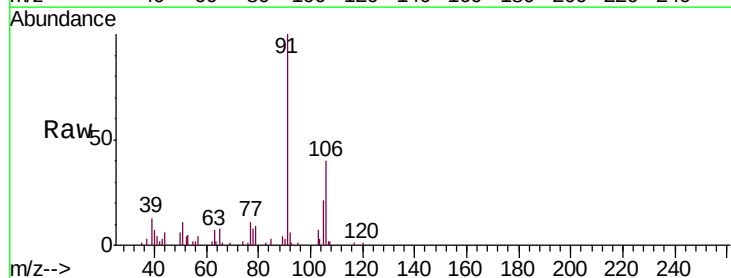
Acq: 28 May 2019 16:22

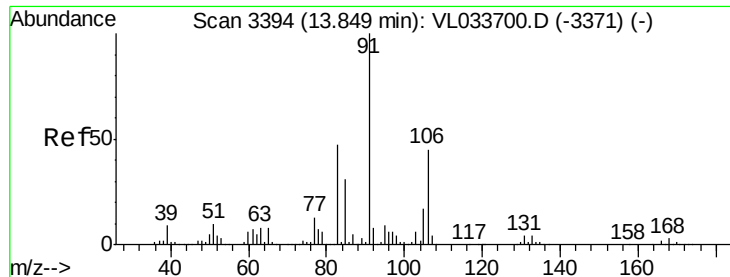
Tgt Ion: 91 Resp: 23885

Ion Ratio Lower Upper

91 100

106 0.0 35.8 53.6#

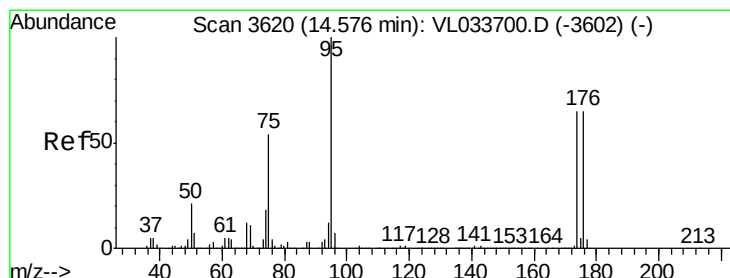
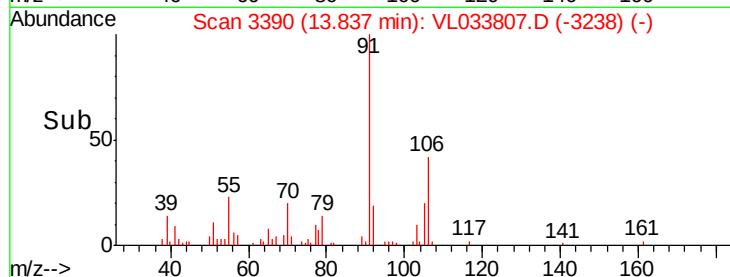
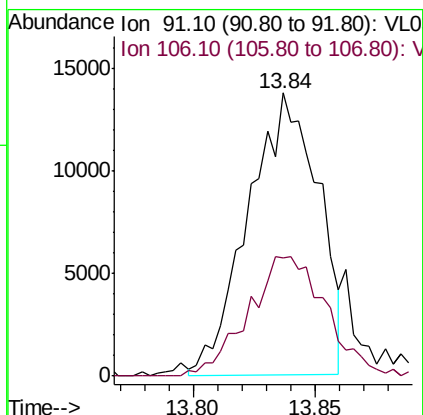
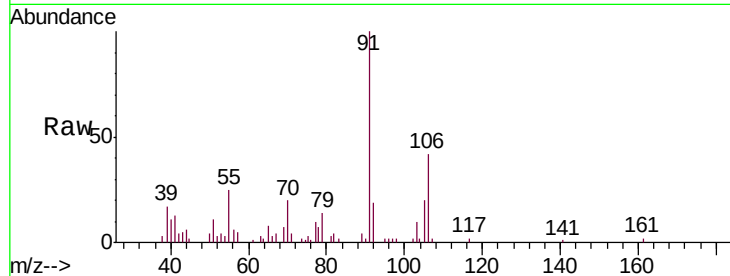




#60
o-Xylene
Concen: 0.098 ppbv
RT: 13.84 min Scan# 3390
Delta R.T. -0.01 min
Lab File: VL033807.D
Acq: 28 May 2019 16:22

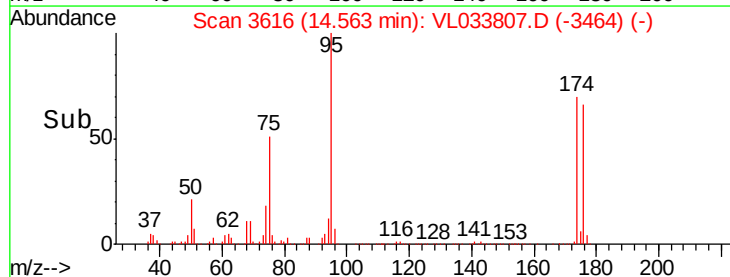
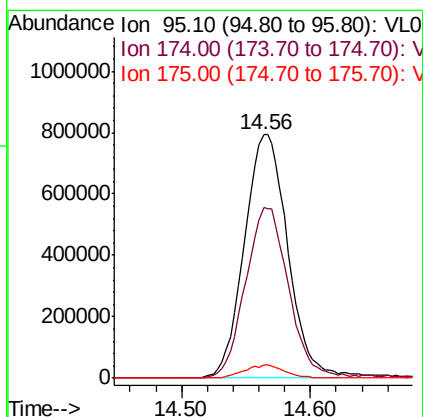
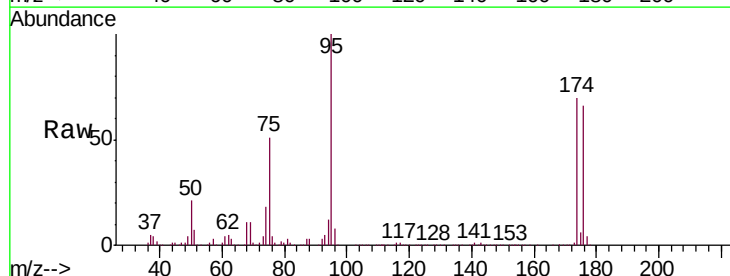
Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3008-25DL

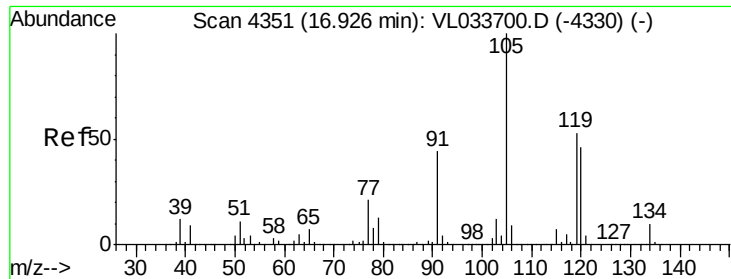
Tgt Ion: 91 Resp: 27344
Ion Ratio Lower Upper
91 100
106 47.5 21.6 64.8



#68
1-Bromo-4-Fluorobenzene
Concen: 9.592 ppbv
RT: 14.56 min Scan# 3616
Delta R.T. -0.01 min
Lab File: VL033807.D
Acq: 28 May 2019 16:22

Tgt Ion: 95 Resp: 1851272
Ion Ratio Lower Upper
95 100
174 71.2 53.9 80.9
175 5.2 3.8 5.8





#74
 1,2,4-Trimethylbenzene
 Concen: 0.043 ppbv
 RT: 16.91 min Scan# 4345
 Delta R.T. -0.02 min
 Lab File: VL033807.D
 Acq: 28 May 2019 16:22

Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3008-25DL

Tgt Ion:105 Resp: 14553
 Ion Ratio Lower Upper
 105 100
 120 36.9 36.8 55.2
 91 6.7 35.4 53.0#
 77 12.5 16.8 25.2#

