

Data File : VL033752.D
Acq On : 22 May 2019 20:06
Operator : SY/AP
Sample : K2929-07 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3002-55

Quant Time: May 23 04:23:57 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	939930	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2151530	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.23	117	2129305	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.56	95	1739063	10.07	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.70%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	3.07	85	8802	0.044	ppbv #	76
3) Chlorodifluoromethane	2.98	51	14378	0.134	ppbv #	69
4) Chloromethane	3.16	50	2292	0.037	ppbv #	86
9) Propene	3.04	41	11266	0.246	ppbv #	81
10) Heptane	8.23	43	3080	0.024	ppbv #	1
11) Trichlorofluoromethane	3.88	101	2622	0.014	ppbv	95
13) Ethanol	3.65	45	13908	0.940	ppbv #	38
15) Acetone	3.89	43	2630379	20.170	ppbv	99
16) 1,3-Butadiene	3.34	39	150190	2.892	ppbv #	14
17) tert-Butyl alcohol	4.38	59	1246	0.012	ppbv #	72
20) Methylene Chloride	4.40	84	12269	0.244	ppbv #	81
21) Allyl Chloride	4.43	41	4214	0.052	ppbv #	1
23) Vinyl Acetate	5.13	43	3657	0.021	ppbv #	1
25) Ethyl Acetate	5.77	43	25211	0.110	ppbv #	87
26) Hexane	5.77	57	12811	0.130	ppbv #	41
36) Benzene	6.99	78	6822	0.035	ppbv #	78
39) 1,2-Dichloropropane	7.28	63	564607	7.738	ppbv #	23
44) 2,2,4-Trimethylpentane	7.98	57	6386	0.019	ppbv #	1
53) Toluene	9.94	91	59846	0.284	ppbv	98
59) m/p-Xylene	13.13	91	2703	0.011	ppbv #	31

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

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Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3002-55

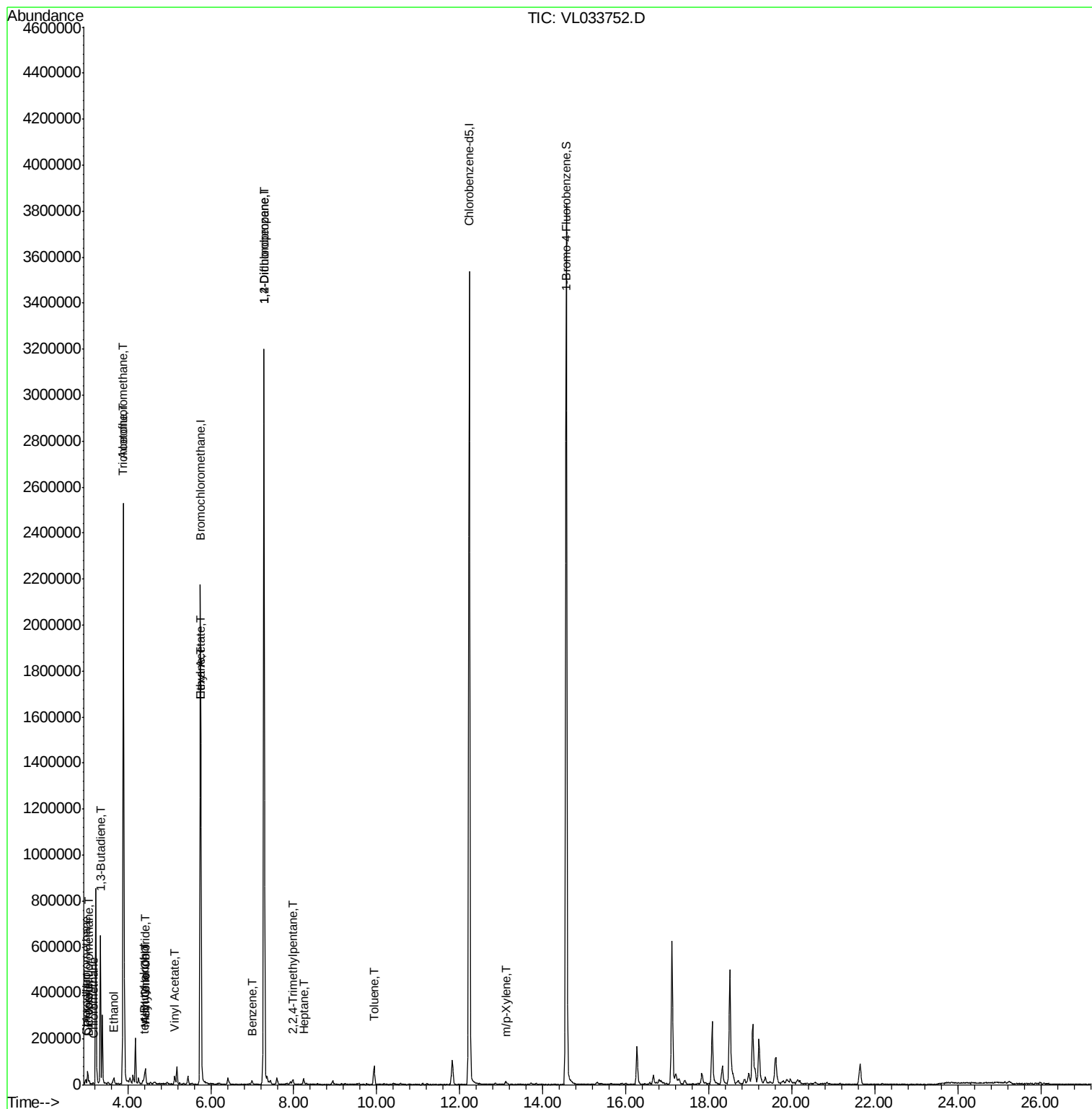
Quant Time: May 23 04:23:57 2019

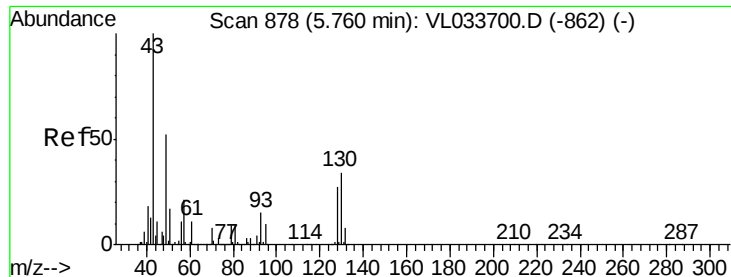
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M

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# 875

Delta R.T. -0.01 min

Lab File: VL033752.D

Acq: 22 May 2019 20:06

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3002-55

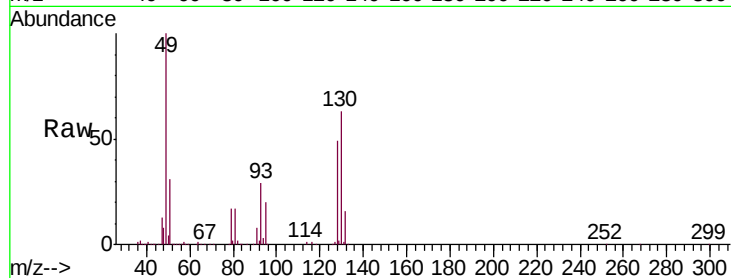
Tgt Ion: 49 Resp: 939930

Ion Ratio Lower Upper

49 100

128 50.2 25.2 75.6

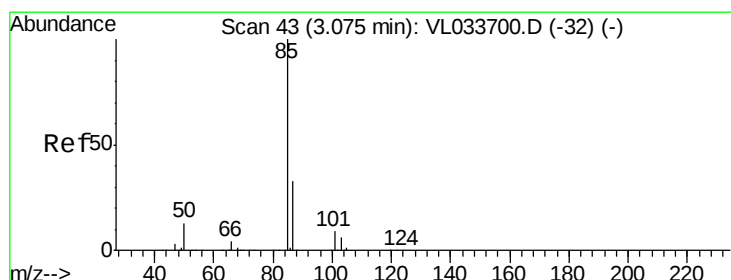
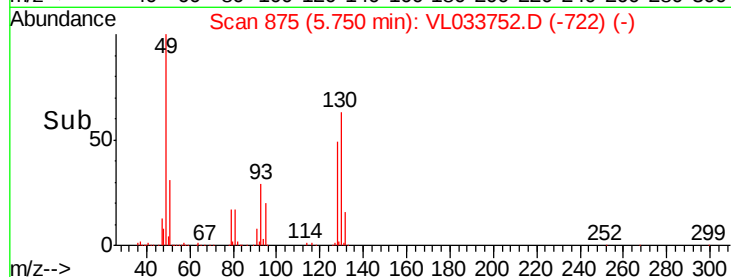
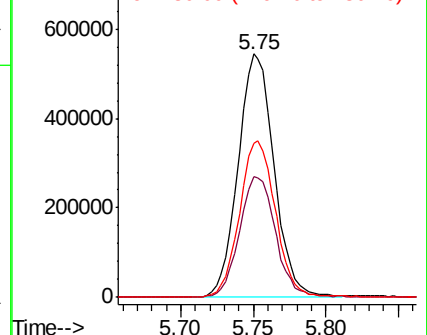
130 64.7 32.5 97.5



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: 0.044 ppbv

RT: 3.07 min Scan# 42

Delta R.T. -0.00 min

Lab File: VL033752.D

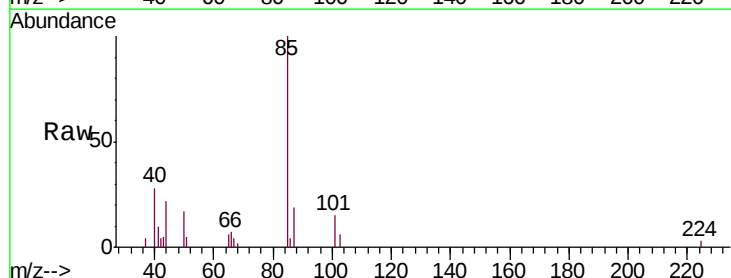
Acq: 22 May 2019 20:06

Tgt Ion: 85 Resp: 8802

Ion Ratio Lower Upper

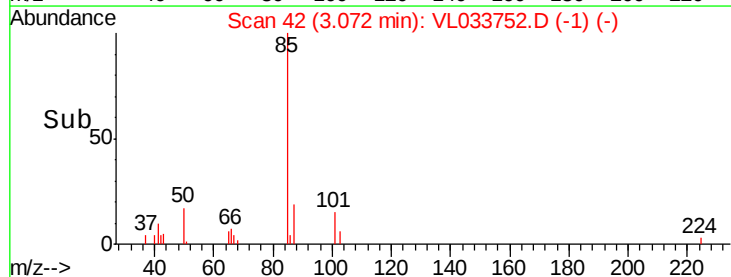
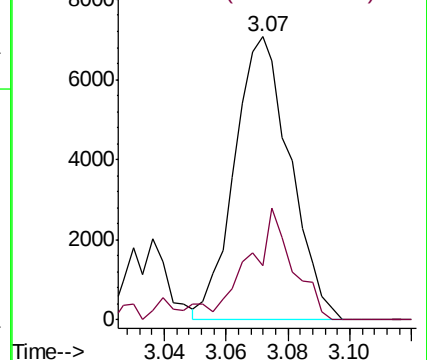
85 100

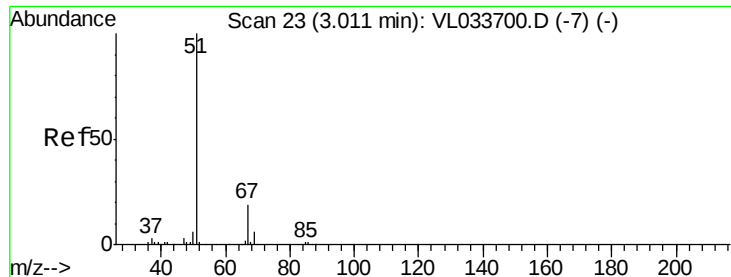
87 19.3 26.3 39.5#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.134 ppbv

RT: 2.98 min Scan# 14

Delta R.T. -0.03 min

Lab File: VL033752.D

Acq: 22 May 2019 20:06

Instrument :

MSVOA_L

ClientSampleId :

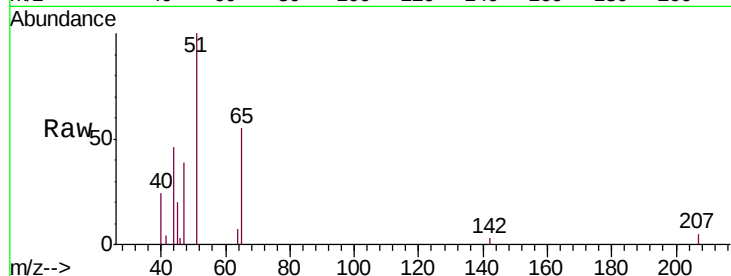
BPS1-SG-3002-55

Tgt Ion: 51 Resp: 14378

Ion Ratio Lower Upper

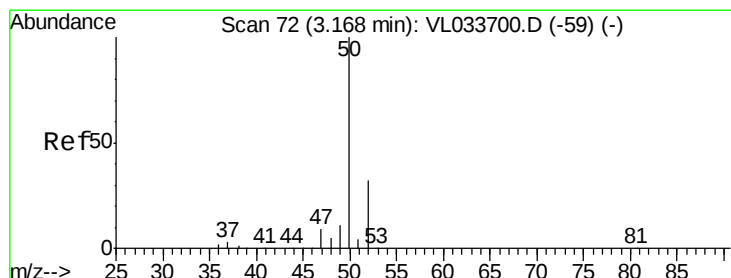
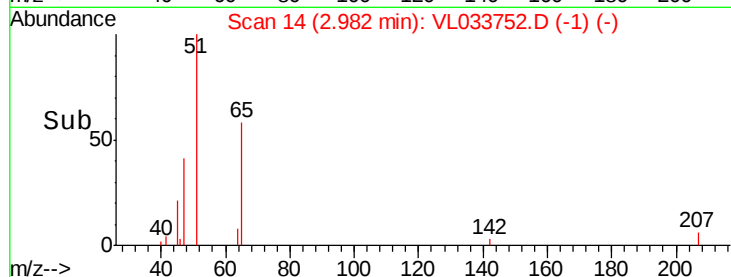
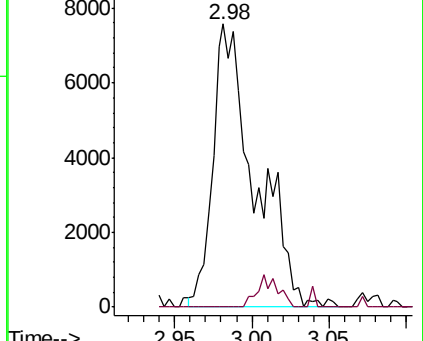
51 100

67 5.6 15.6 23.4#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.037 ppbv

RT: 3.16 min Scan# 70

Delta R.T. -0.01 min

Lab File: VL033752.D

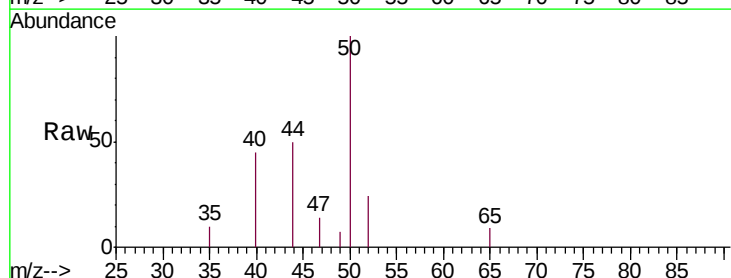
Acq: 22 May 2019 20:06

Tgt Ion: 50 Resp: 2292

Ion Ratio Lower Upper

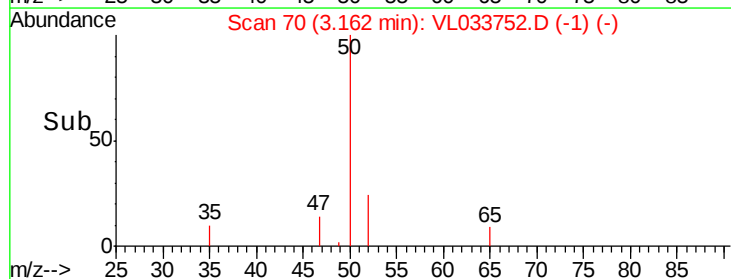
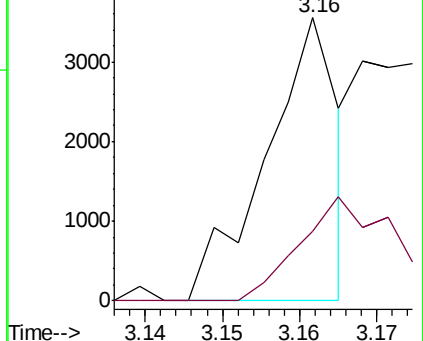
50 100

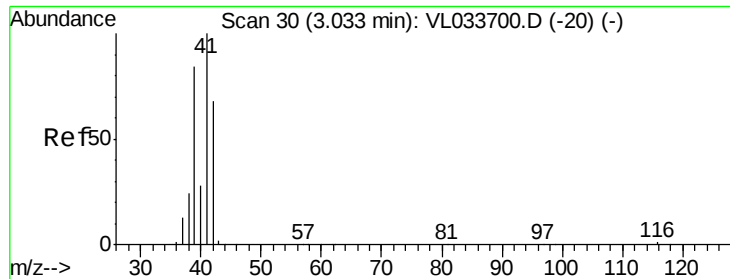
52 24.4 25.7 38.5#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.246 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033752.D

Acq: 22 May 2019 20:06

Instrument :

MSVOA_L

ClientSampleId :

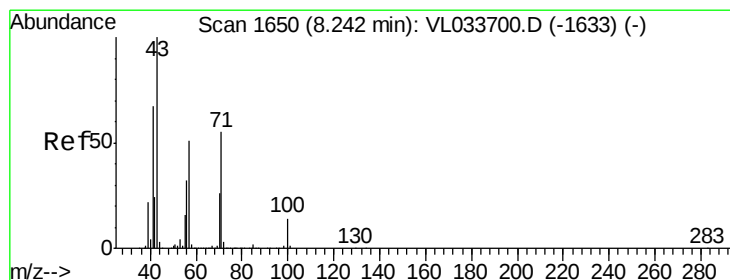
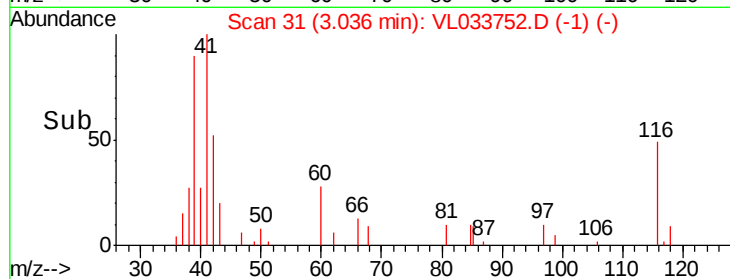
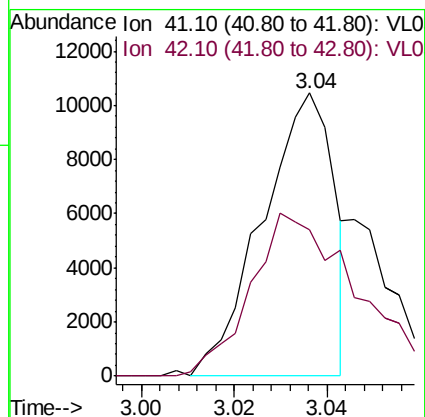
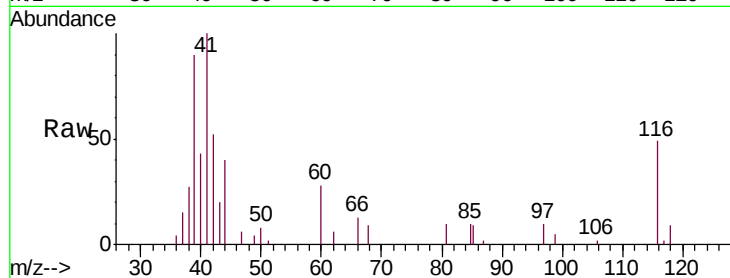
BPS1-SG-3002-55

Tgt Ion: 41 Resp: 11266

Ion Ratio Lower Upper

41 100

42 85.3 56.1 84.1#



#10

Heptane

Concen: 0.024 ppbv

RT: 8.23 min Scan# 1646

Delta R.T. -0.01 min

Lab File: VL033752.D

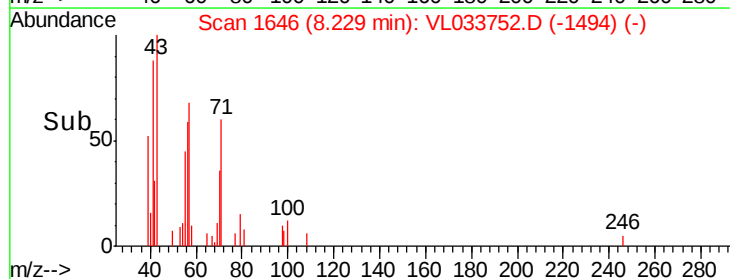
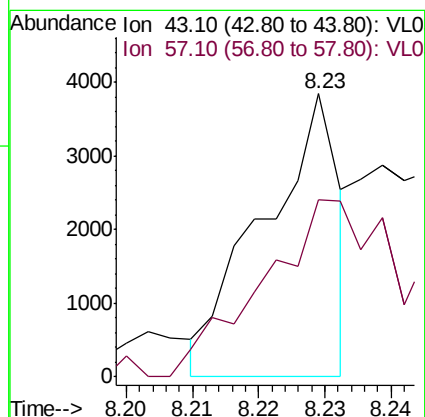
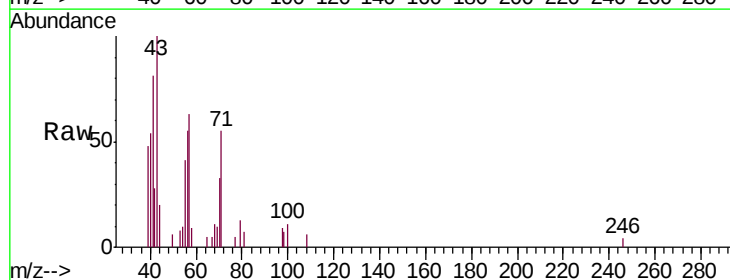
Acq: 22 May 2019 20:06

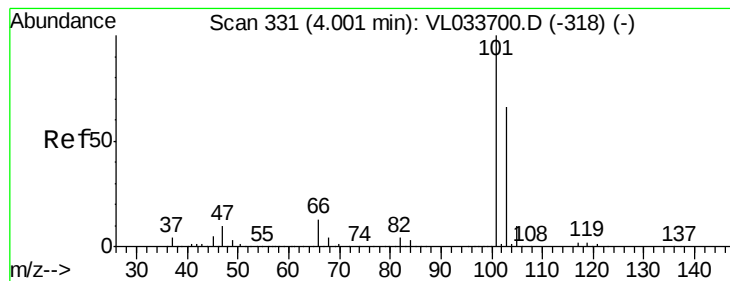
Tgt Ion: 43 Resp: 3080

Ion Ratio Lower Upper

43 100

57 134.6 41.4 62.0#





#11

Trichlorofluoromethane

Concen: 0.014 ppbv

RT: 3.88 min Scan# 293

Delta R.T. -0.12 min

Lab File: VL033752.D

Acq: 22 May 2019 20:06

Instrument :

MSVOA_L

ClientSampleId :

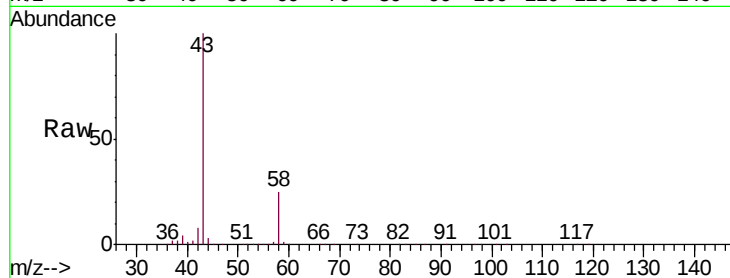
BPS1-SG-3002-55

Tgt Ion:101 Resp: 2622

Ion Ratio Lower Upper

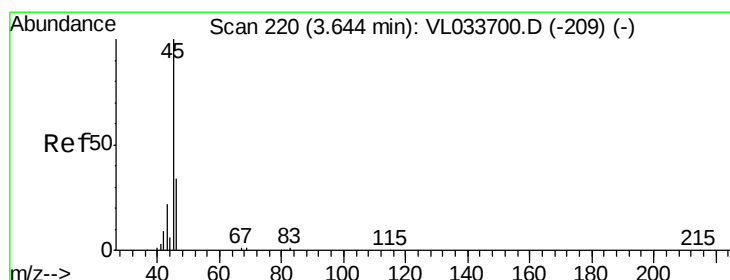
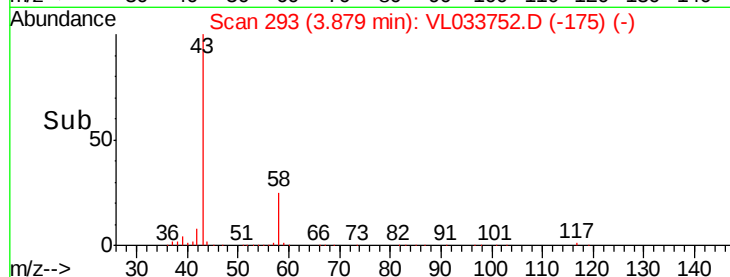
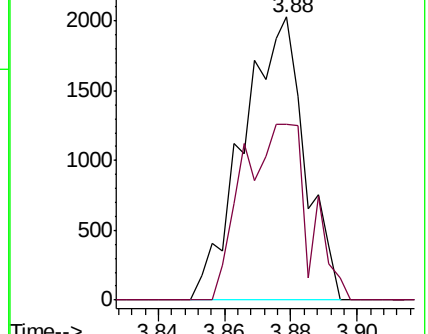
101 100

103 62.1 52.6 78.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 0.940 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.01 min

Lab File: VL033752.D

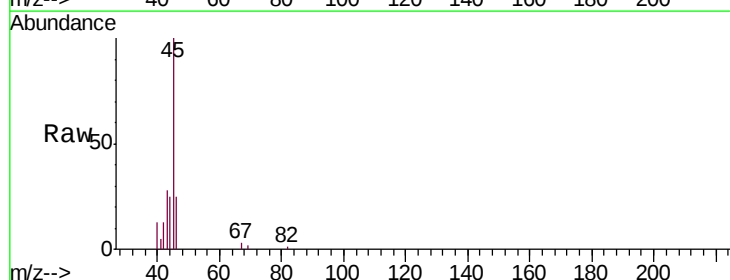
Acq: 22 May 2019 20:06

Tgt Ion: 45 Resp: 13908

Ion Ratio Lower Upper

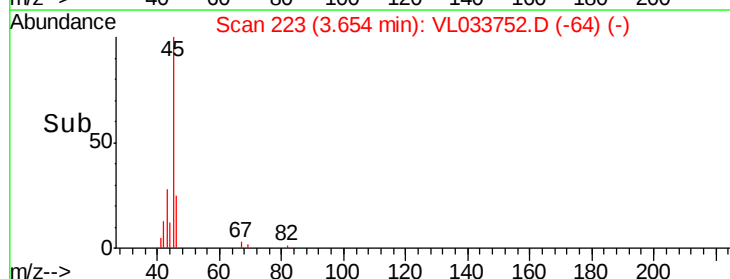
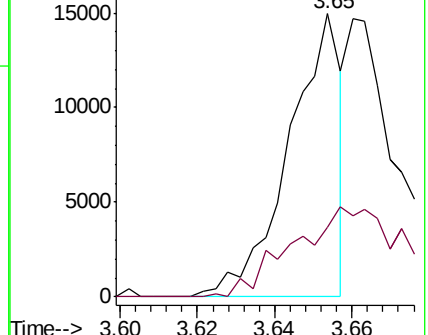
45 100

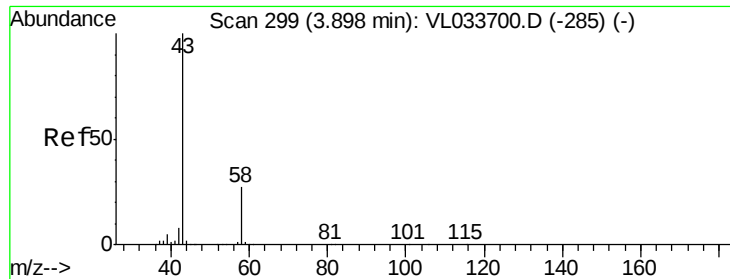
46 0.0 14.8 59.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 20.170 ppbv

RT: 3.89 min Scan# 297

Delta R.T. -0.01 min

Lab File: VL033752.D

Acq: 22 May 2019 20:06

Instrument :

MSVOA_L

ClientSampleId :

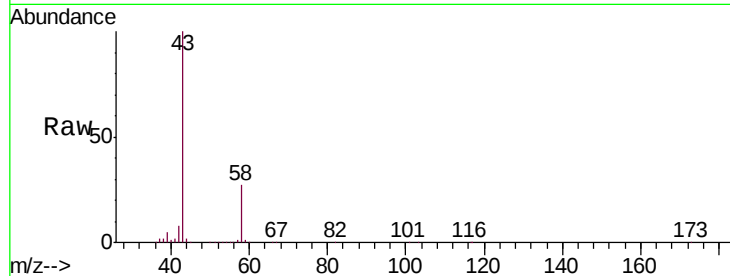
BPS1-SG-3002-55

Tgt Ion: 43 Resp: 2630379

Ion Ratio Lower Upper

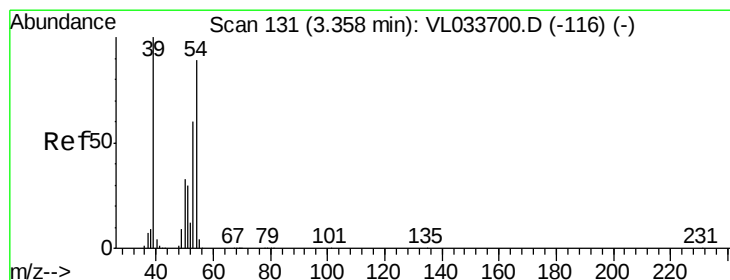
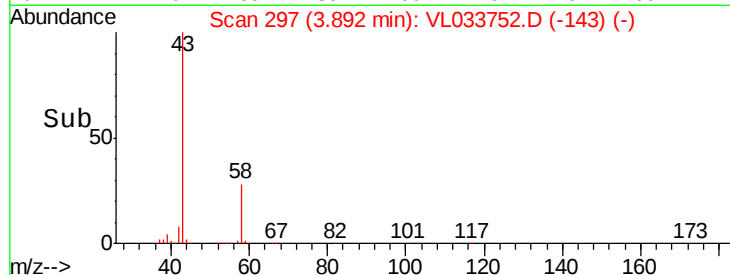
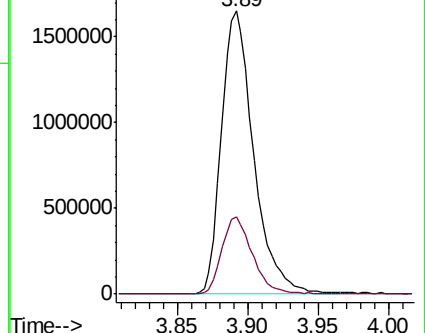
43 100

58 26.2 21.3 31.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 2.892 ppbv

RT: 3.34 min Scan# 125

Delta R.T. -0.02 min

Lab File: VL033752.D

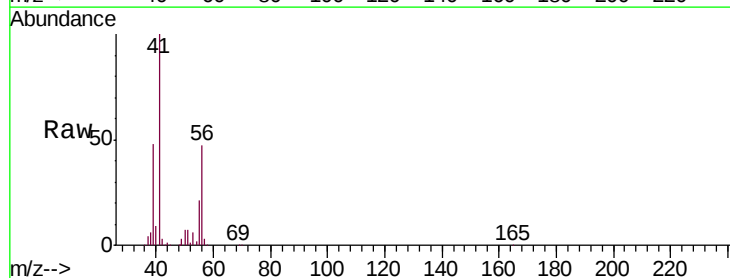
Acq: 22 May 2019 20:06

Tgt Ion: 39 Resp: 150190

Ion Ratio Lower Upper

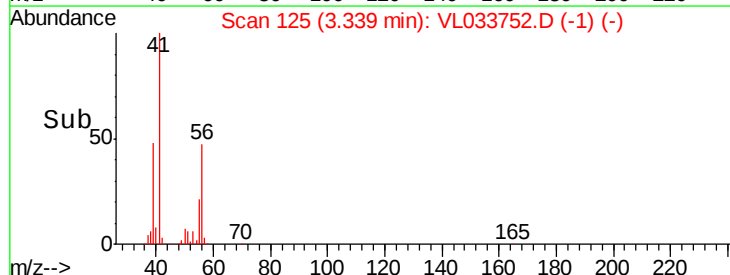
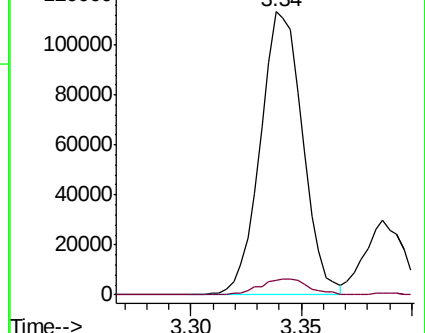
39 100

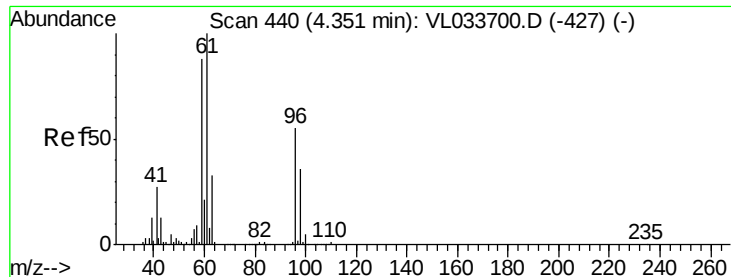
54 7.0 69.0 103.6#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

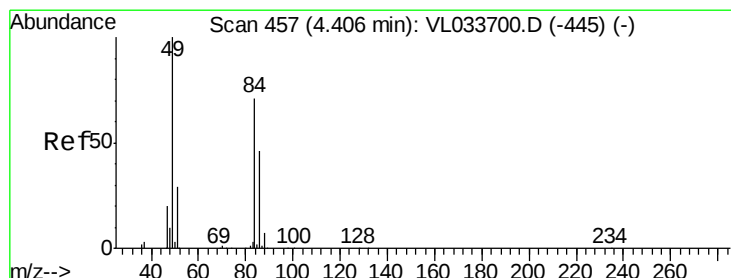
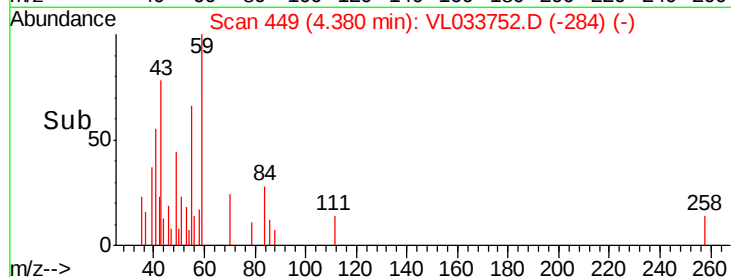
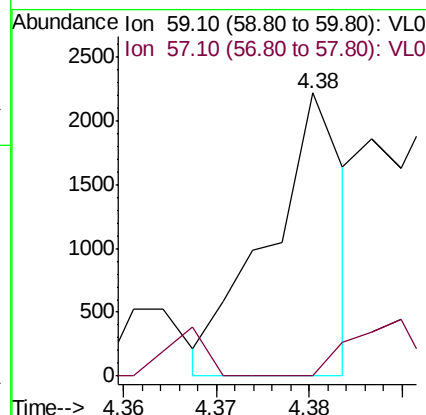
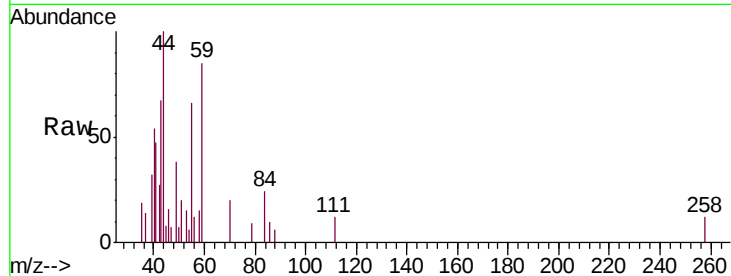




#17
 tert-Butyl alcohol
 Concen: 0.012 ppbv
 RT: 4.38 min Scan# 449
 Delta R.T. 0.03 min
 Lab File: VL033752.D
 Acq: 22 May 2019 20:06

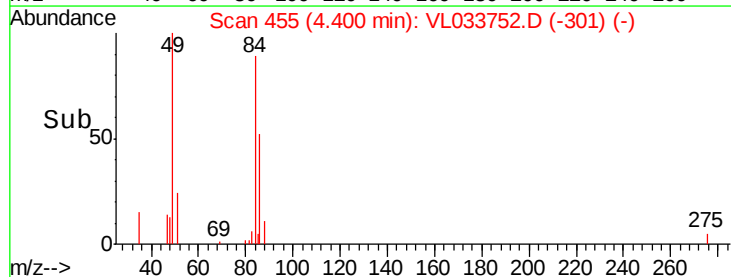
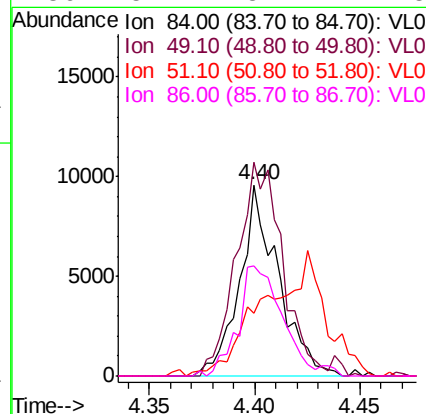
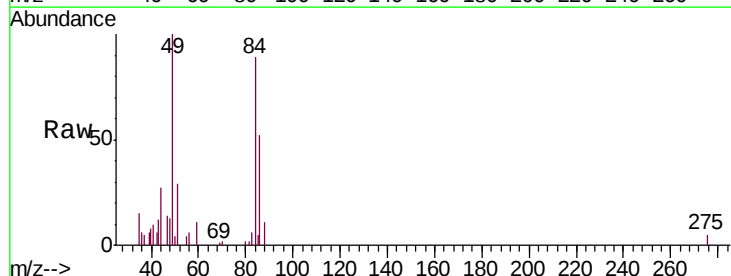
Instrument :
 MSVOA_L
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 BPS1-SG-3002-55

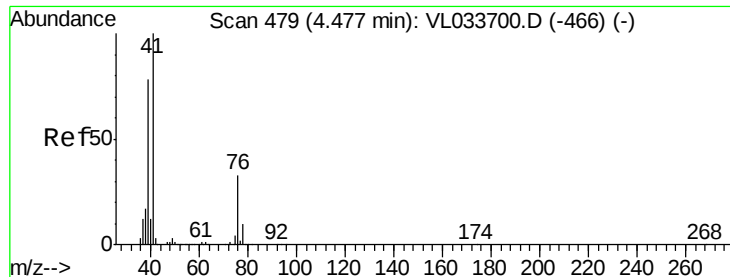
Tgt Ion: 59 Resp: 1246
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#



#20
 Methylene Chloride
 Concen: 0.244 ppbv
 RT: 4.40 min Scan# 455
 Delta R.T. -0.01 min
 Lab File: VL033752.D
 Acq: 22 May 2019 20:06

Tgt Ion: 84 Resp: 12269
 Ion Ratio Lower Upper
 84 100
 49 111.9 112.8 169.2#
 51 30.9 33.4 50.0#
 86 57.7 51.7 77.5





#21

Allyl Chloride

Concen: 0.052 ppbv

RT: 4.43 min Scan# 463

Delta R.T. -0.05 min

Lab File: VL033752.D

Acq: 22 May 2019 20:06

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3002-55

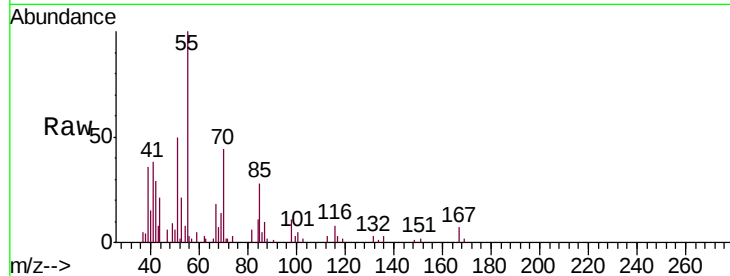
Tgt Ion: 41 Resp: 4214

Ion Ratio Lower Upper

41 100

76 0.8 25.9 38.9#

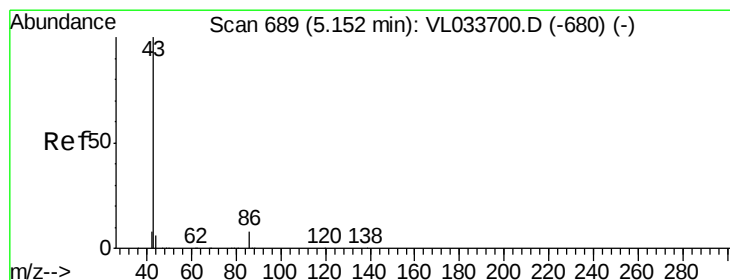
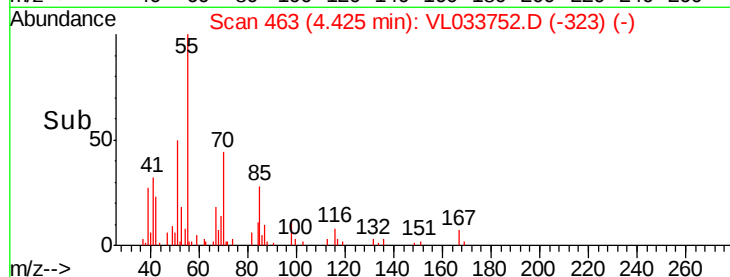
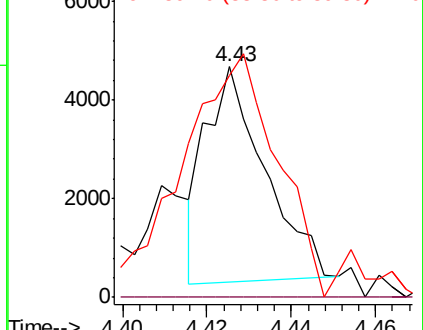
39 197.7 64.6 97.0#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#23

Vinyl Acetate

Concen: 0.021 ppbv

RT: 5.13 min Scan# 683

Delta R.T. -0.02 min

Lab File: VL033752.D

Acq: 22 May 2019 20:06

Tgt Ion: 43 Resp: 3657

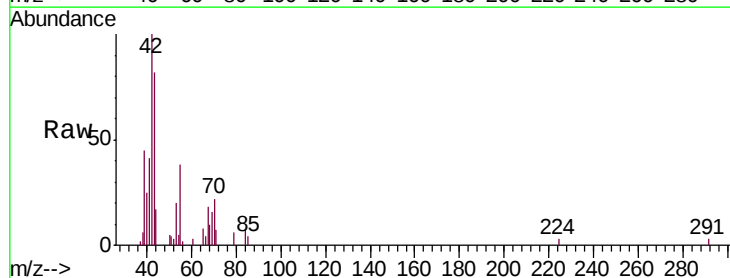
Ion Ratio Lower Upper

43 100

86 0.0 6.0 9.0#

42 109.5 7.5 11.3#

44 0.0 4.4 6.6#

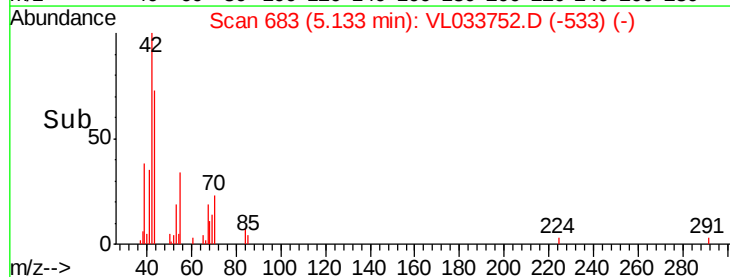
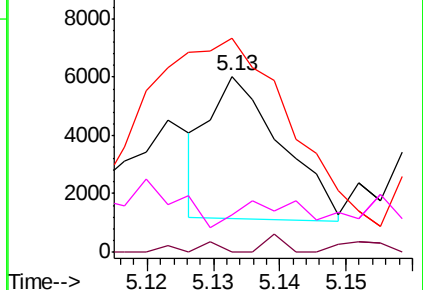


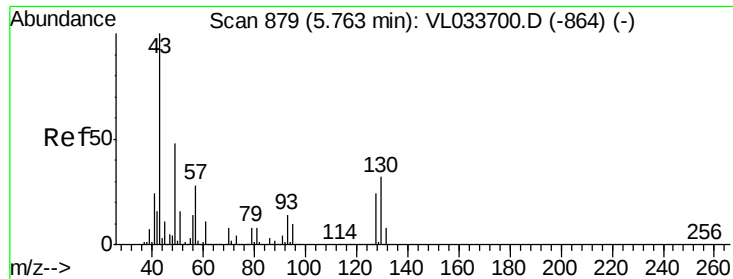
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

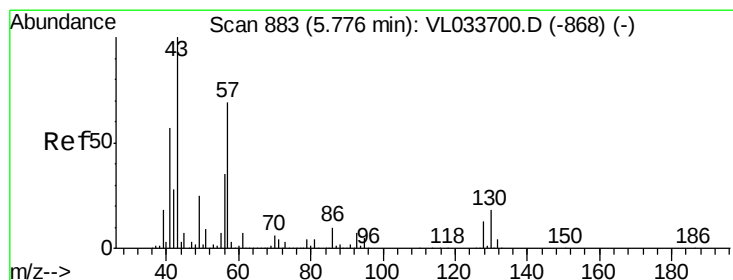
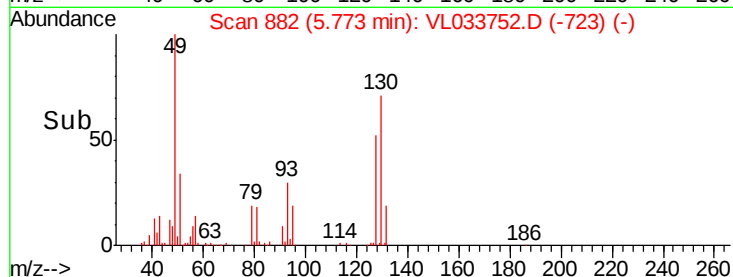
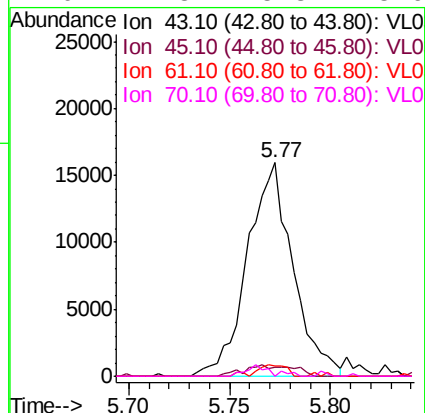
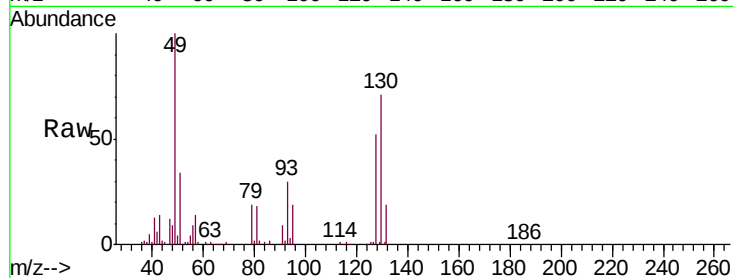




#25
Ethyl Acetate
Concen: 0.110 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.01 min
Lab File: VL033752.D
Acq: 22 May 2019 20:06

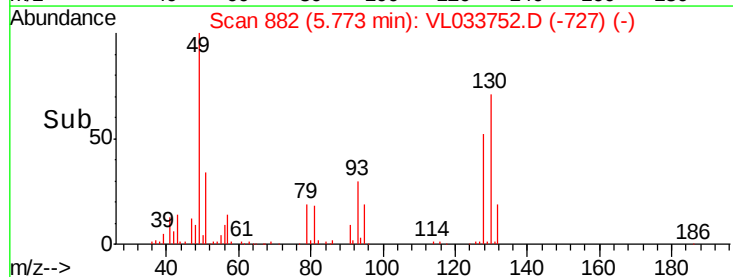
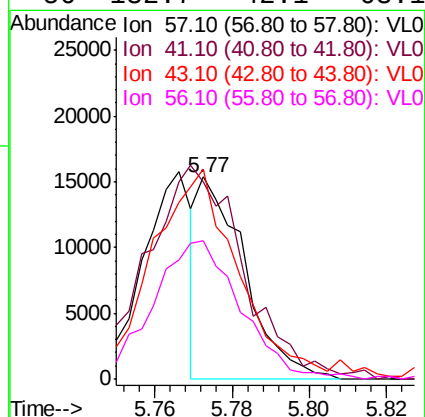
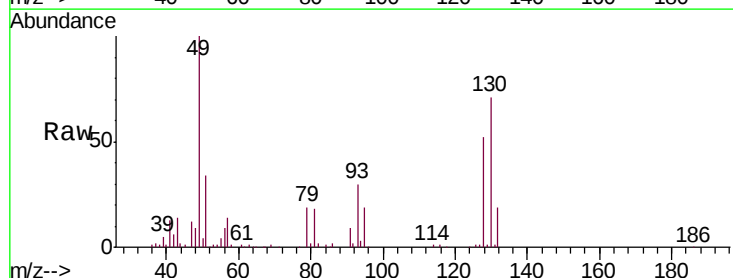
Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3002-55

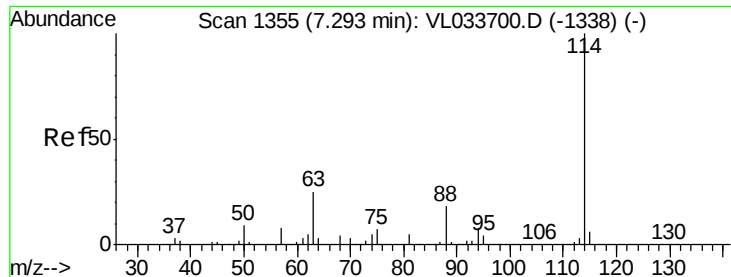
Tgt Ion:	43	Resp:	25211
Ion	Ratio	Lower	Upper
43	100		
45	5.8	7.9	11.9#
61	3.8	7.7	11.5#
70	2.8	5.8	8.6#



#26
Hexane
Concen: 0.130 ppbv
RT: 5.77 min Scan# 882
Delta R.T. -0.00 min
Lab File: VL033752.D
Acq: 22 May 2019 20:06

Tgt Ion:	57	Resp:	12811
Ion	Ratio	Lower	Upper
57	100		
41	225.9	69.8	104.6#
43	207.4	181.8	272.6
56	132.7	42.1	63.1#

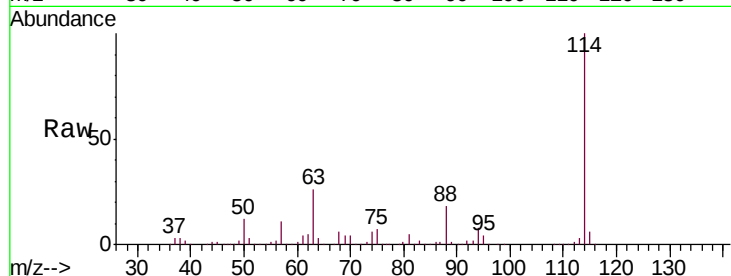




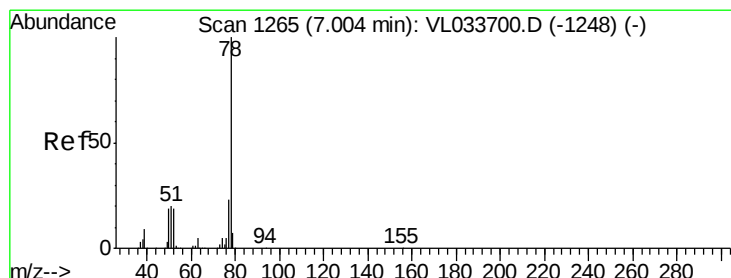
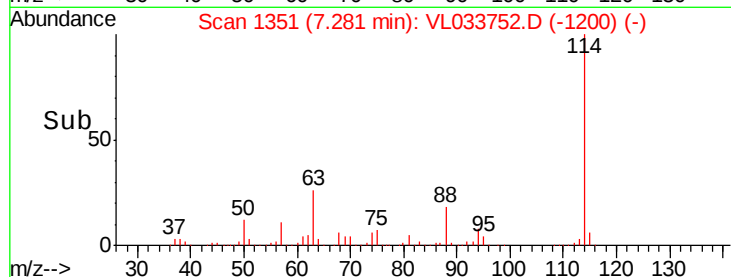
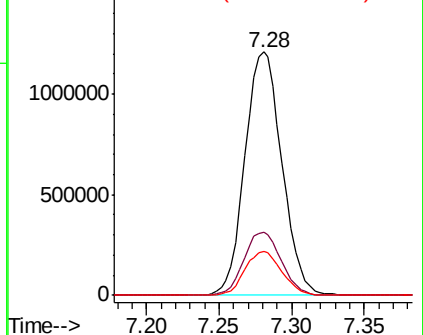
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1351
 Delta R.T. -0.01 min
 Lab File: VL033752.D
 Acq: 22 May 2019 20:06

Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3002-55

Tgt Ion: 114 Resp: 2151530
 Ion Ratio Lower Upper
 114 100
 63 26.4 20.9 31.3
 88 18.1 14.3 21.5

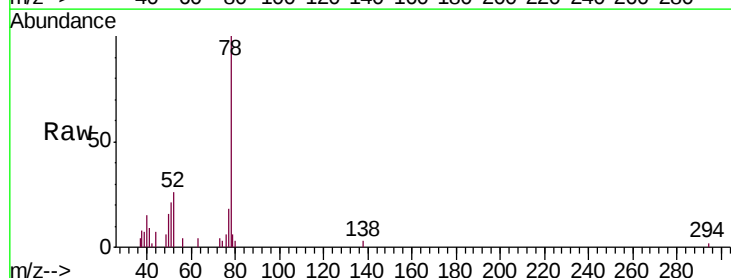


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

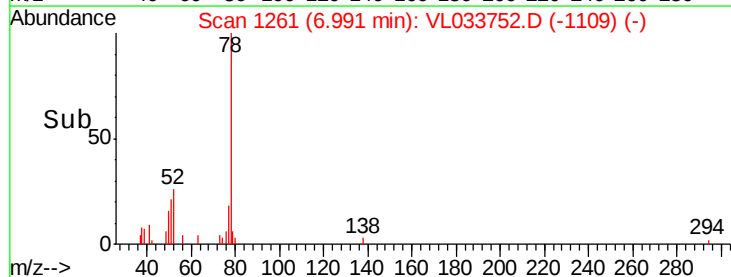
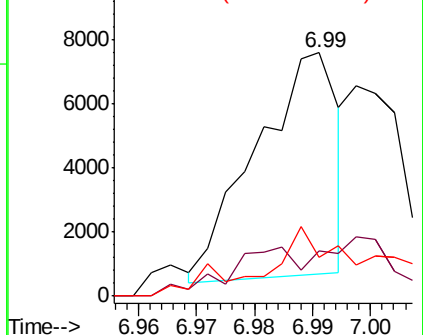


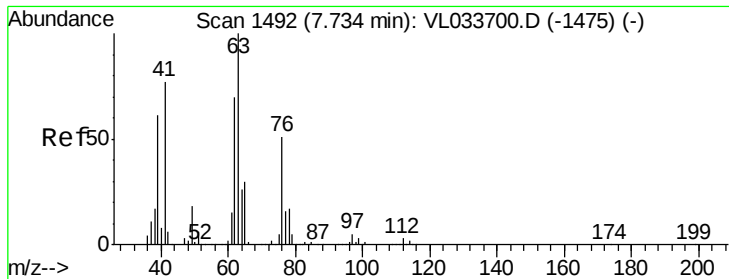
#36
 Benzene
 Concen: 0.035 ppbv
 RT: 6.99 min Scan# 1261
 Delta R.T. -0.01 min
 Lab File: VL033752.D
 Acq: 22 May 2019 20:06

Tgt Ion: 78 Resp: 6822
 Ion Ratio Lower Upper
 78 100
 77 17.6 18.4 27.6#
 50 3.4 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

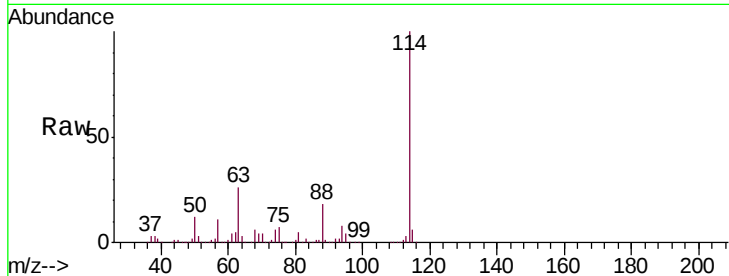




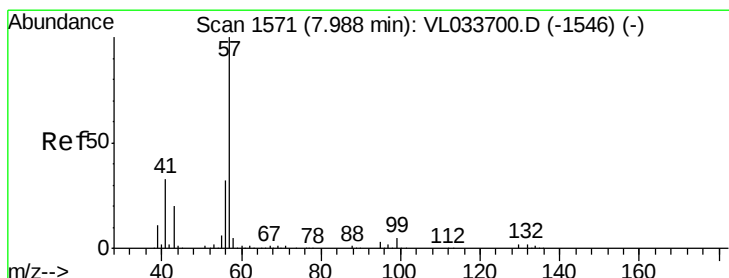
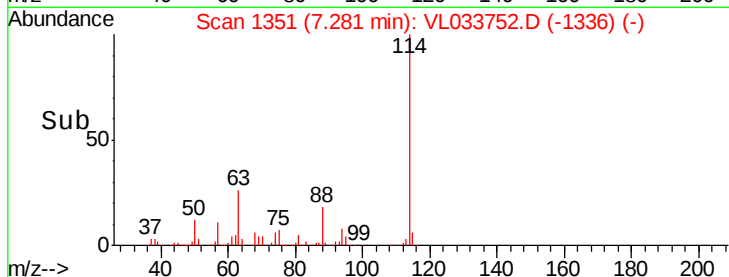
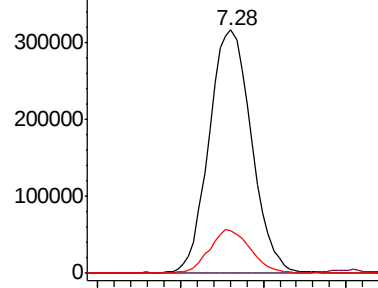
#39
 1,2-Dichloropropane
 Concen: 7.738 ppbv
 RT: 7.28 min Scan# 1351
 Delta R.T. -0.45 min
 Lab File: VL033752.D
 Acq: 22 May 2019 20:06

Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3002-55

Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	61.5	92.3#
62	17.3	56.2	84.4#

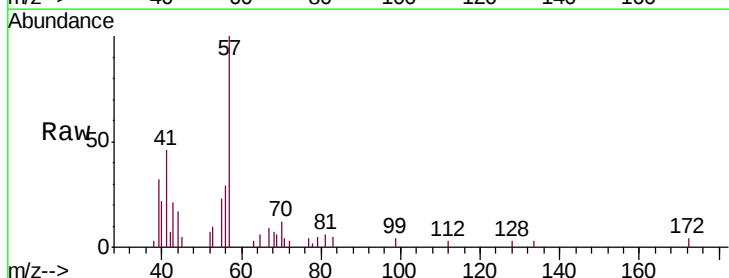


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

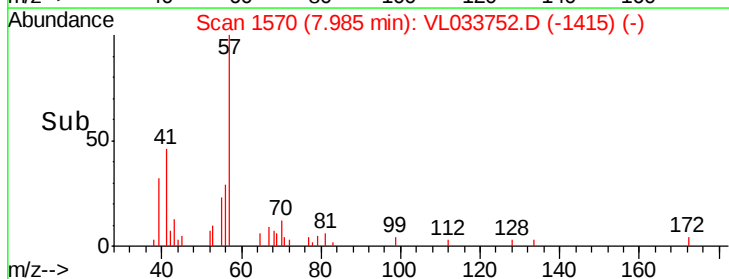
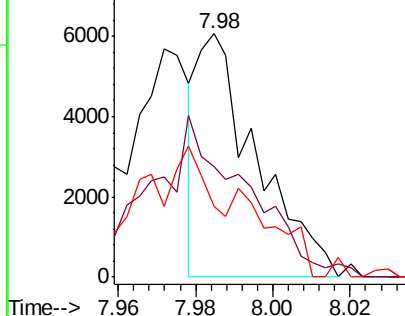


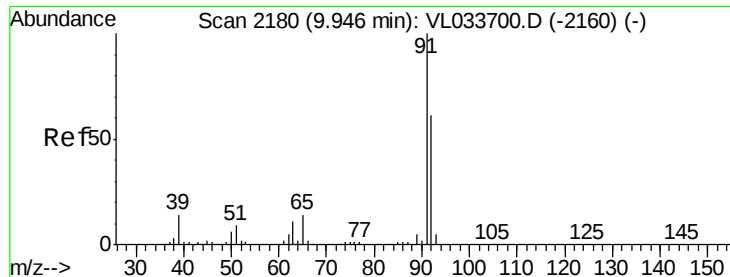
#44
 2,2,4-Trimethylpentane
 Concen: 0.019 ppbv
 RT: 7.98 min Scan# 1570
 Delta R.T. -0.00 min
 Lab File: VL033752.D
 Acq: 22 May 2019 20:06

Tgt Ion	Ratio	Lower	Upper
57	100		
41	118.0	25.4	38.0#
56	98.6	24.7	37.1#



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





#53

Toluene

Concen: 0.284 ppbv

RT: 9.94 min Scan# 2177

Delta R.T. -0.01 min

Lab File: VL033752.D

Acq: 22 May 2019 20:06

Instrument :

MSVOA_L

ClientSampleId :

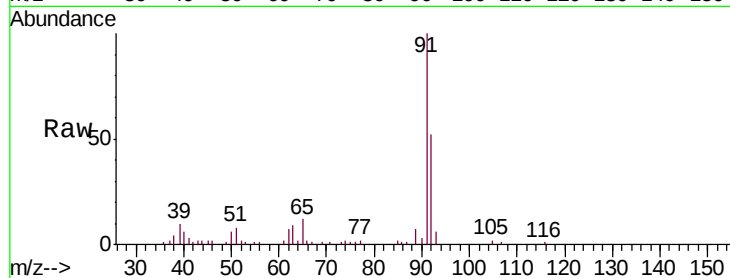
BPS1-SG-3002-55

Tgt Ion: 91 Resp: 59846

Ion Ratio Lower Upper

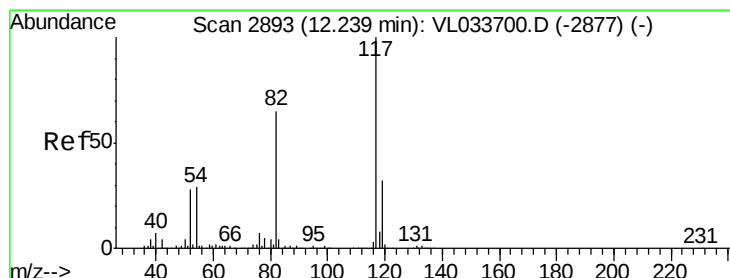
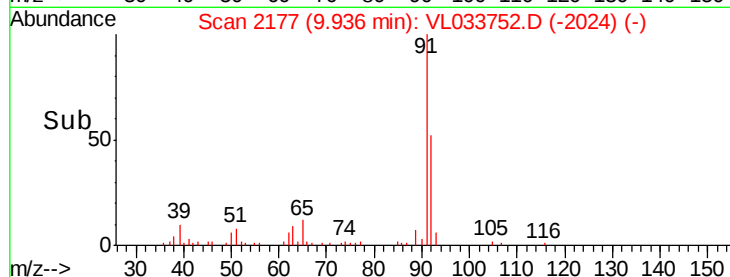
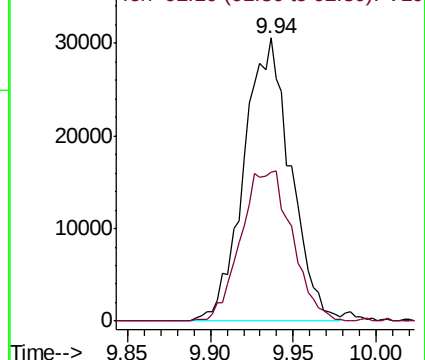
91 100

92 58.2 47.6 71.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2889

Delta R.T. -0.01 min

Lab File: VL033752.D

Acq: 22 May 2019 20:06

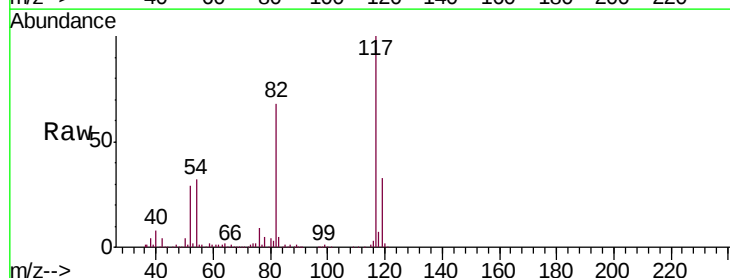
Tgt Ion: 117 Resp: 2129305

Ion Ratio Lower Upper

117 100

82 67.4 49.4 74.0

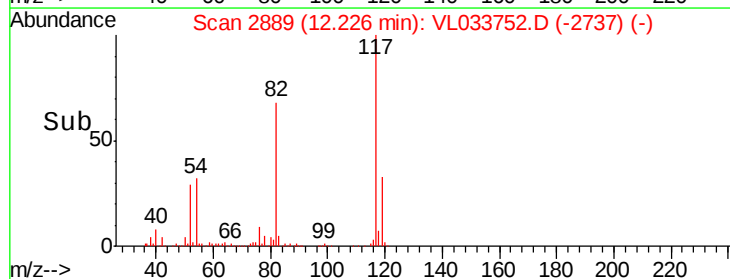
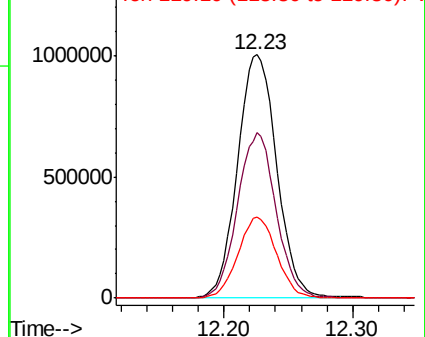
119 32.9 24.9 37.3

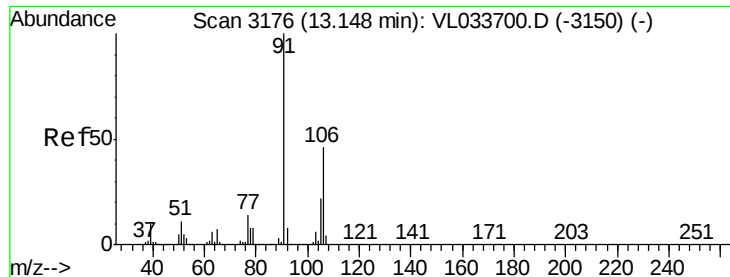


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#59

m/p-Xylene

Concen: 0.011 ppbv

RT: 13.13 min Scan# 3169

Delta R.T. -0.02 min

Lab File: VL033752.D

Acq: 22 May 2019 20:06

Instrument :

MSVOA_L

ClientSampleId :

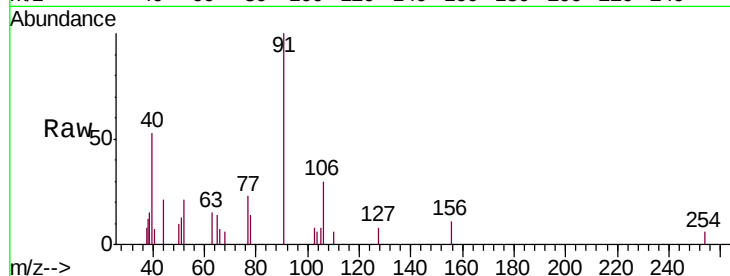
BPS1-SG-3002-55

Tgt Ion: 91 Resp: 2703

Ion Ratio Lower Upper

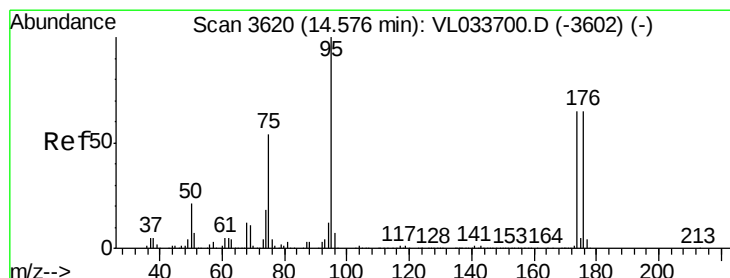
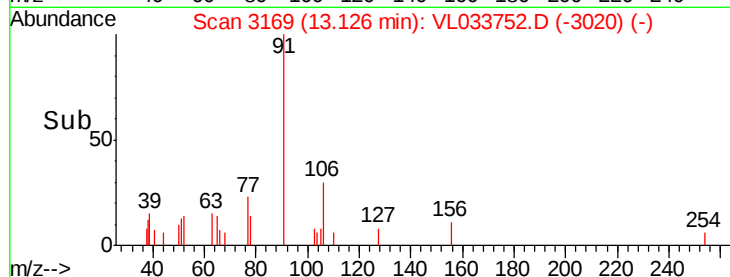
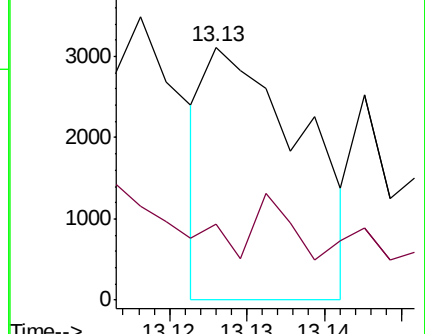
91 100

106 0.0 35.8 53.6#



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: 10.075 ppbv

RT: 14.56 min Scan# 3616

Delta R.T. -0.01 min

Lab File: VL033752.D

Acq: 22 May 2019 20:06

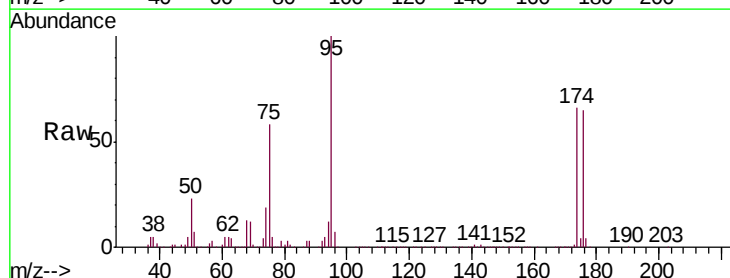
Tgt Ion: 95 Resp: 1739063

Ion Ratio Lower Upper

95 100

174 65.9 53.9 80.9

175 4.7 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

