

Data File : VL033828.D
Acq On : 29 May 2019 7:39
Operator : SY/AP
Sample : K2960-01 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3010-25

Quant Time: May 29 08:10:23 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	5.76	49	812959	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1758942	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	1756652	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.57 95 1539154 10.81 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 108.10%

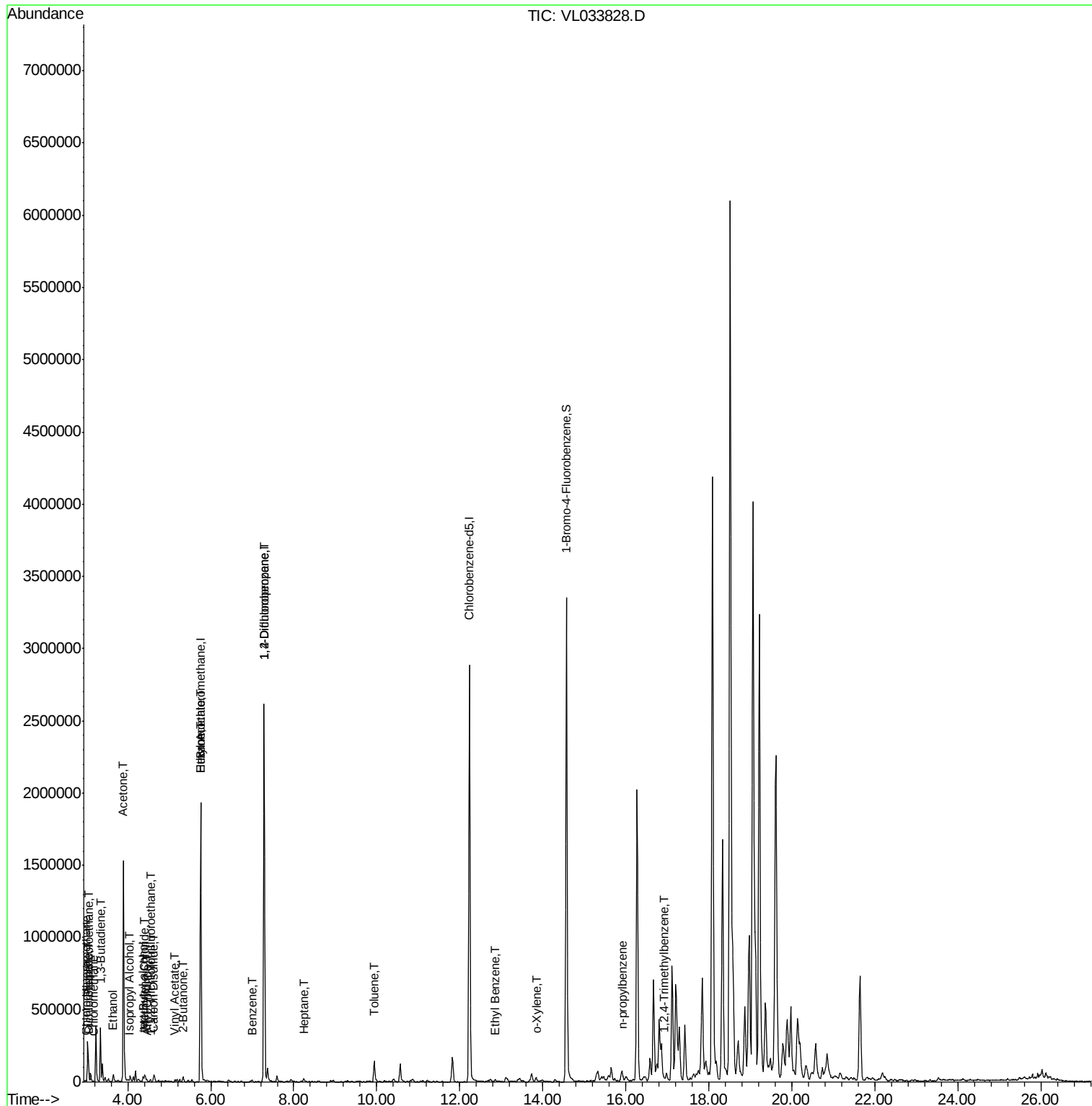
Target Compounds					Qvalue	
3) Chlorodifluoromethane	2.98	51	9217	0.099	ppbv #	70
4) Chloromethane	3.17	50	3294	0.062	ppbv #	71
8) Dichlorotetrafluoroethane	3.08	85	7943	0.058	ppbv #	16
9) Propene	3.04	41	101972	2.575	ppbv	90
10) Heptane	8.24	43	4384	0.039	ppbv #	53
12) 1,1,2-Trichlorotrifluoroet	4.54	101	2460	0.022	ppbv #	13
13) Ethanol	3.65	45	44831	3.502	ppbv	99
15) Acetone	3.89	43	1536225	13.620	ppbv	99
16) 1,3-Butadiene	3.34	39	101839	2.267	ppbv #	20
17) tert-Butyl alcohol	4.37	59	10736	0.118	ppbv #	72
19) Isopropyl Alcohol	4.03	45	3678	0.051	ppbv #	94
20) Methylene Chloride	4.40	84	7420	0.171	ppbv #	92
21) Allyl Chloride	4.47	41	1207	0.017	ppbv #	1
23) Vinyl Acetate	5.15	43	2098	0.014	ppbv #	51
25) Ethyl Acetate	5.77	43	16858	0.085	ppbv #	85
26) Hexane	5.77	57	8743	0.103	ppbv #	60
27) Carbon Disulfide	4.62	76	17081	0.146	ppbv #	74
34) 2-Butanone	5.34	43	42559	0.390	ppbv	97
36) Benzene	6.99	78	10263	0.064	ppbv #	80
39) 1,2-Dichloropropane	7.28	63	459077	7.696	ppbv #	22
53) Toluene	9.94	91	108356	0.628	ppbv	97
58) Ethyl Benzene	12.85	91	7110	0.031	ppbv	99
60) o-Xylene	13.85	91	5032	0.025	ppbv #	33
64) n-propylbenzene	15.92	120	1280	0.018	ppbv	80
74) 1,2,4-Trimethylbenzene	16.92	105	4877	0.020	ppbv #	66

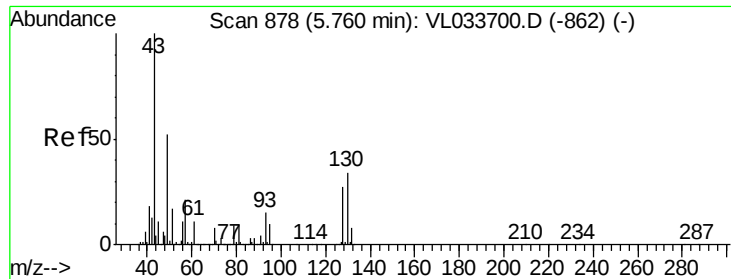
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.00 min

Lab File: VL033828.D

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Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3010-25

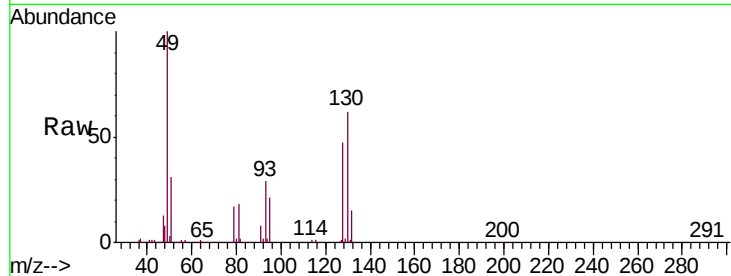
Tgt Ion: 49 Resp: 812959

Ion Ratio Lower Upper

49 100

128 50.0 25.2 75.6

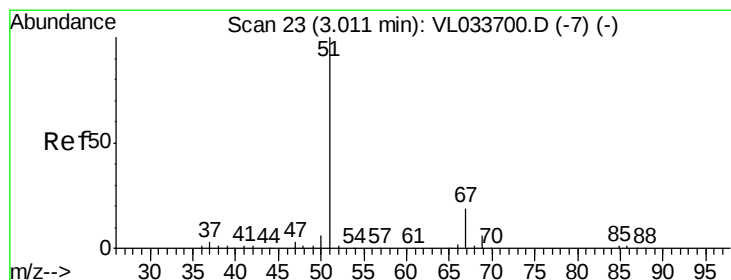
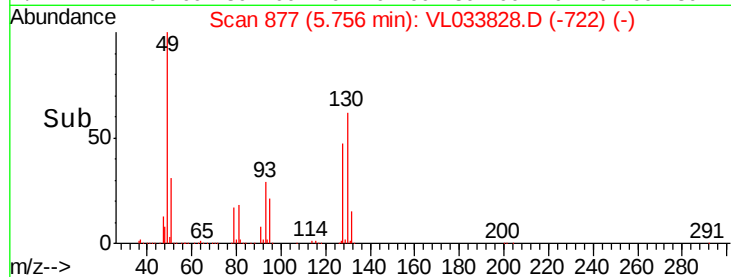
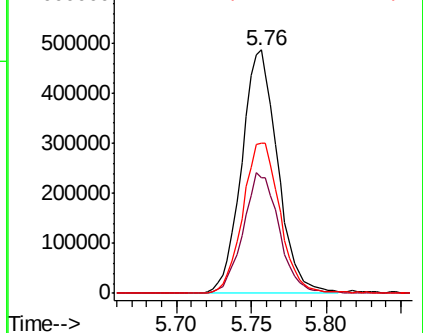
130 64.5 32.5 97.5



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



#3

Chlorodifluoromethane

Concen: 0.099 ppbv

RT: 2.98 min Scan# 15

Delta R.T. -0.03 min

Lab File: VL033828.D

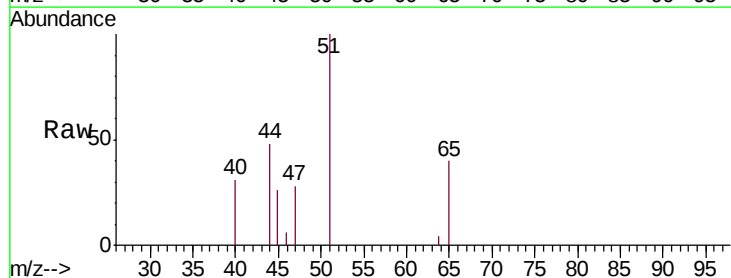
Acq: 29 May 2019 7:39

Tgt Ion: 51 Resp: 9217

Ion Ratio Lower Upper

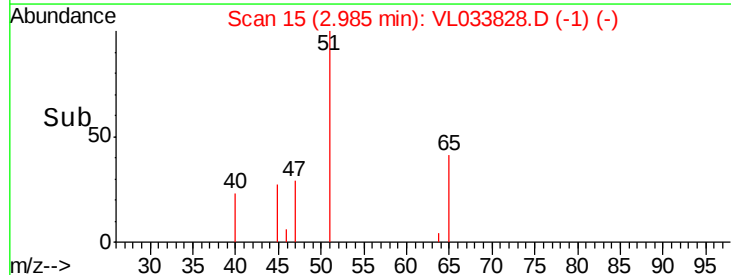
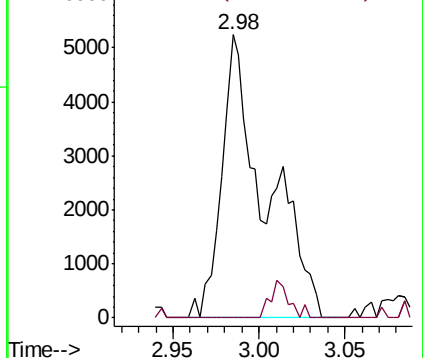
51 100

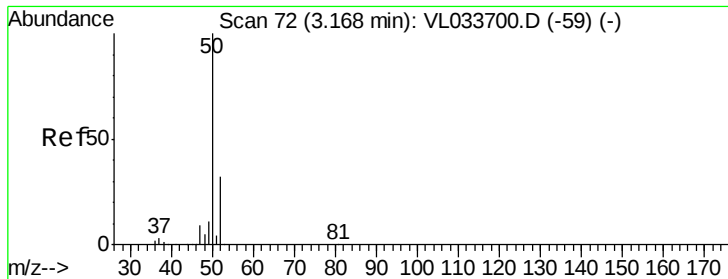
67 5.6 15.6 23.4#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.062 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033828.D

Acq: 29 May 2019 7:39

Instrument :

MSVOA_L

ClientSampleId :

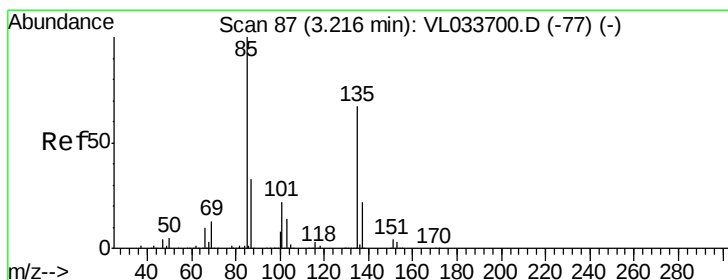
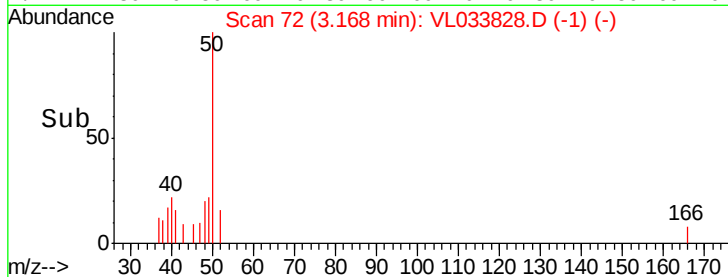
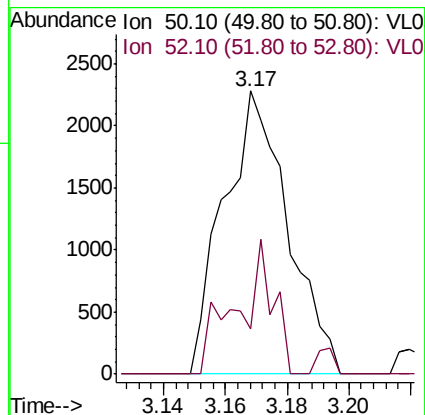
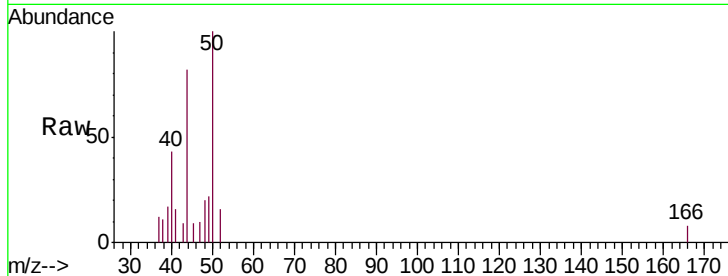
BPS1-SG-3010-25

Tgt Ion: 50 Resp: 3294

Ion Ratio Lower Upper

50 100

52 16.1 25.7 38.5#



#8

Dichlorotetrafluoroethane

Concen: 0.058 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.14 min

Lab File: VL033828.D

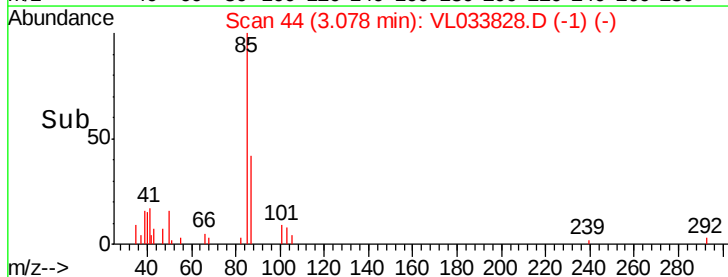
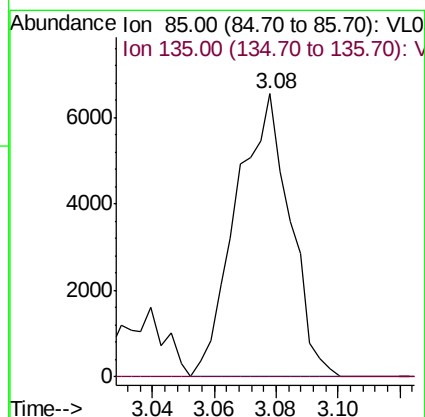
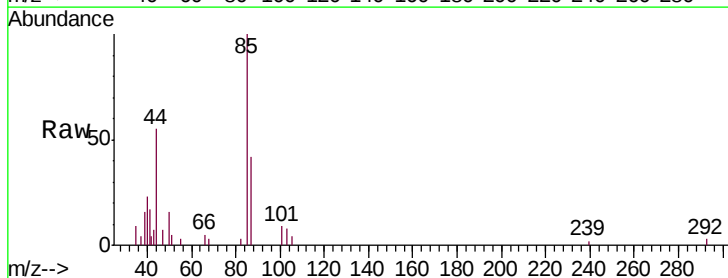
Acq: 29 May 2019 7:39

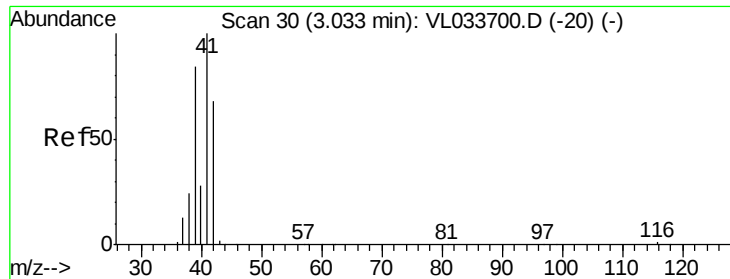
Tgt Ion: 85 Resp: 7943

Ion Ratio Lower Upper

85 100

135 0.0 54.5 81.7#





#9

Propene

Concen: 2.575 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033828.D

Acq: 29 May 2019 7:39

Instrument :

MSVOA_L

ClientSampleId :

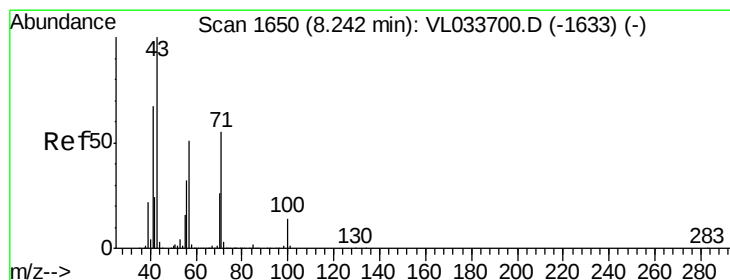
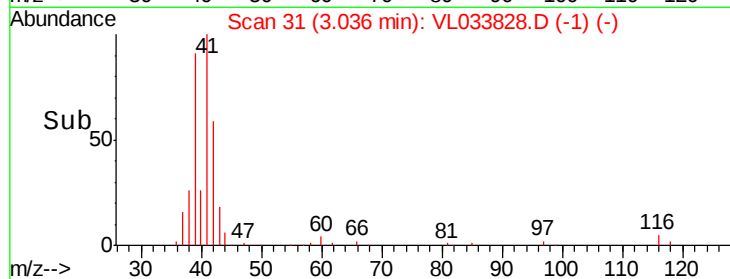
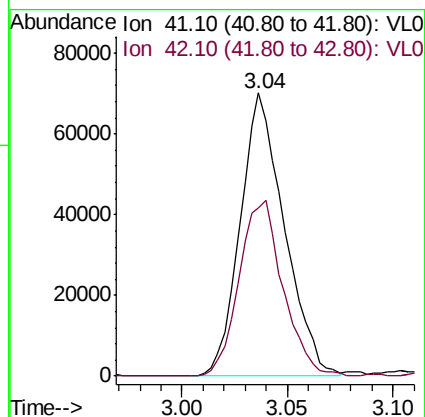
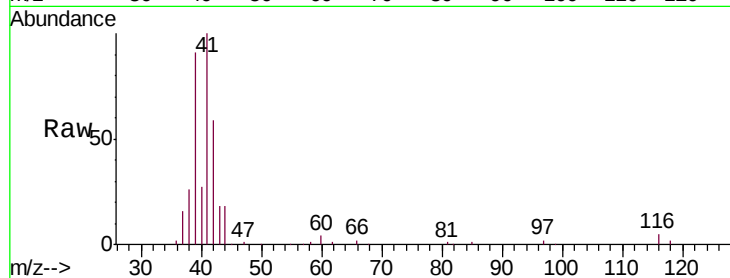
BPS1-SG-3010-25

Tgt Ion: 41 Resp: 101972

Ion Ratio Lower Upper

41 100

42 61.7 56.1 84.1



#10

Heptane

Concen: 0.039 ppbv

RT: 8.24 min Scan# 1648

Delta R.T. -0.01 min

Lab File: VL033828.D

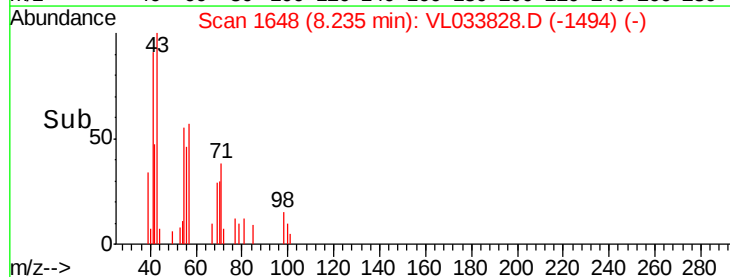
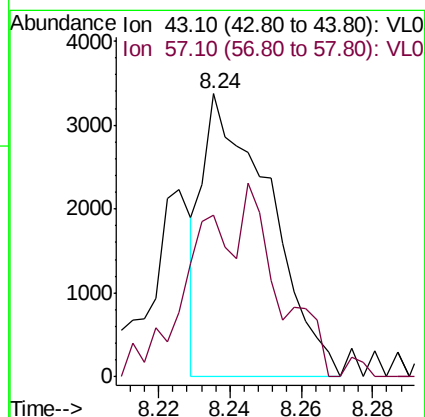
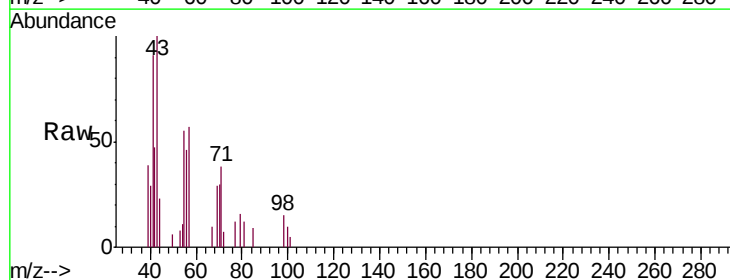
Acq: 29 May 2019 7:39

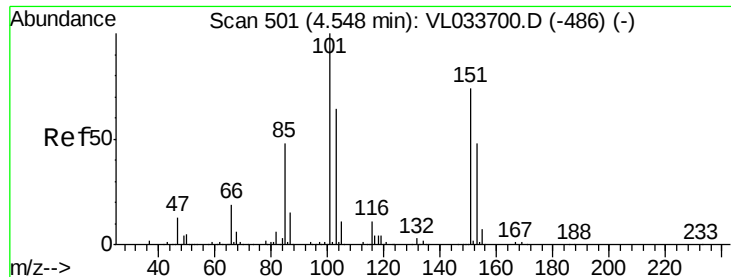
Tgt Ion: 43 Resp: 4384

Ion Ratio Lower Upper

43 100

57 84.7 41.4 62.0#





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.022 ppbv

RT: 4.54 min Scan# 499

Delta R.T. -0.01 min

Lab File: VL033828.D

Acq: 29 May 2019 7:39

Instrument :

MSVOA_L

ClientSampleId :

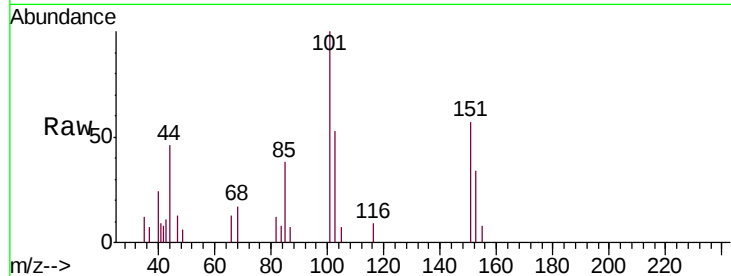
BPS1-SG-3010-25

Tgt Ion: 101 Resp: 2460

Ion Ratio Lower Upper

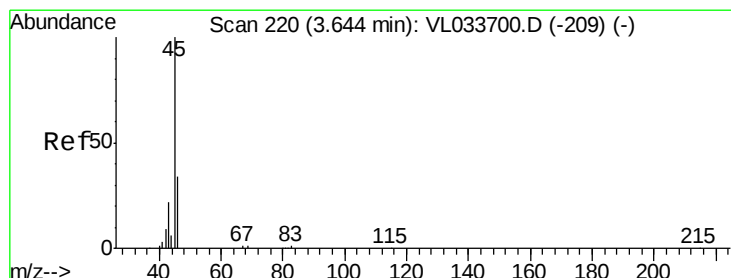
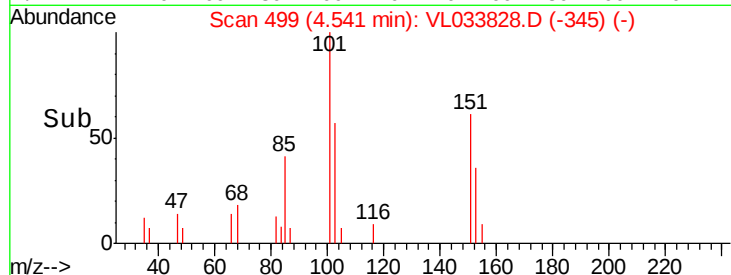
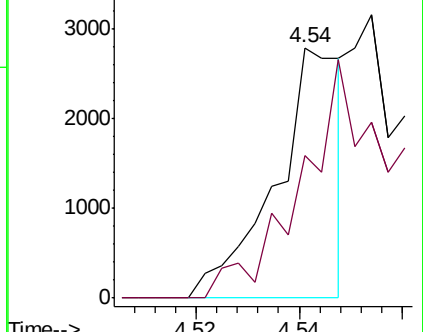
101 100

151 0.0 58.2 87.4#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 3.502 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.01 min

Lab File: VL033828.D

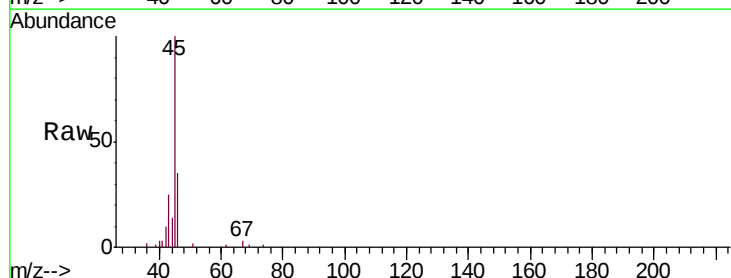
Acq: 29 May 2019 7:39

Tgt Ion: 45 Resp: 44831

Ion Ratio Lower Upper

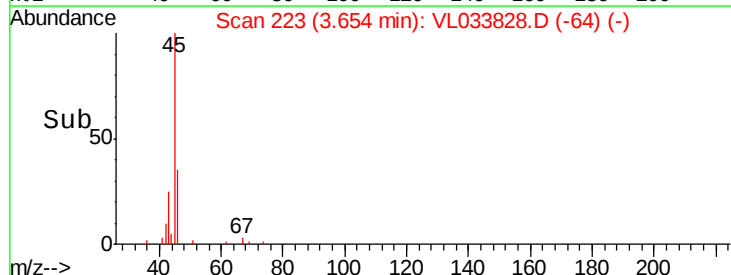
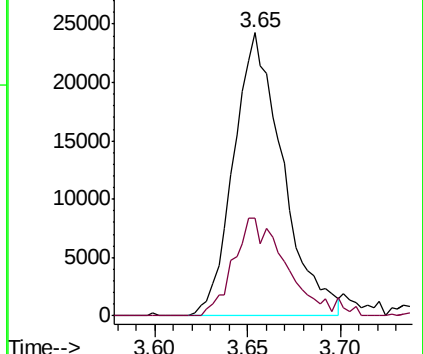
45 100

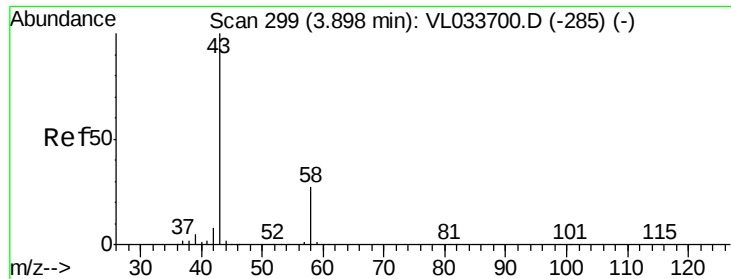
46 37.6 14.8 59.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 13.620 ppbv

RT: 3.89 min Scan# 298

Delta R.T. -0.00 min

Lab File: VL033828.D

Acq: 29 May 2019 7:39

Instrument :

MSVOA_L

ClientSampleId :

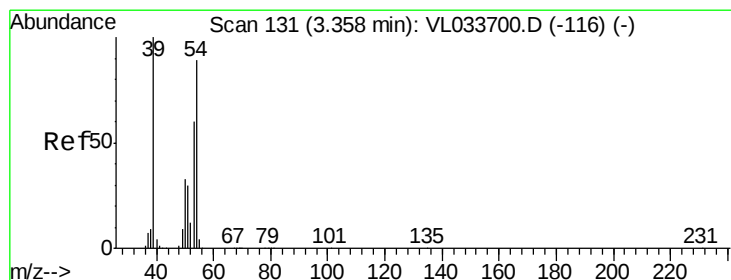
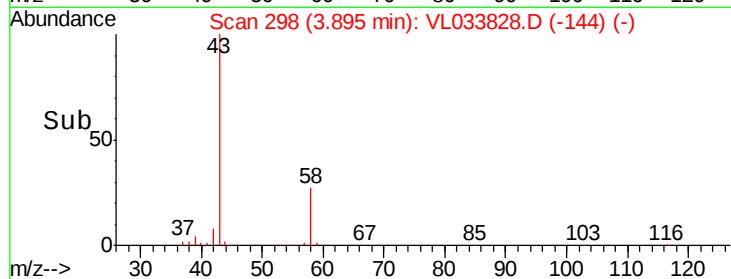
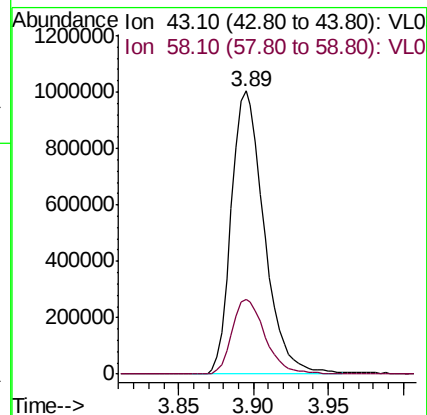
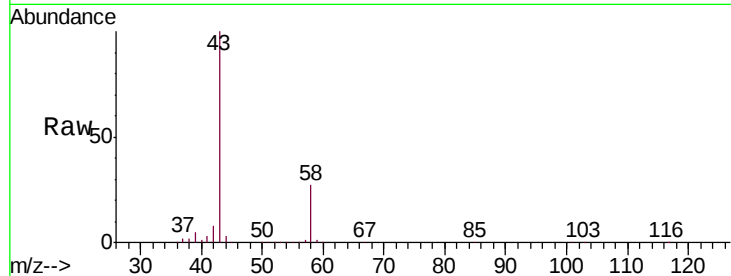
BPS1-SG-3010-25

Tgt Ion: 43 Resp: 1536225

Ion Ratio Lower Upper

43 100

58 26.9 21.3 31.9



#16

1,3-Butadiene

Concen: 2.267 ppbv

RT: 3.34 min Scan# 126

Delta R.T. -0.02 min

Lab File: VL033828.D

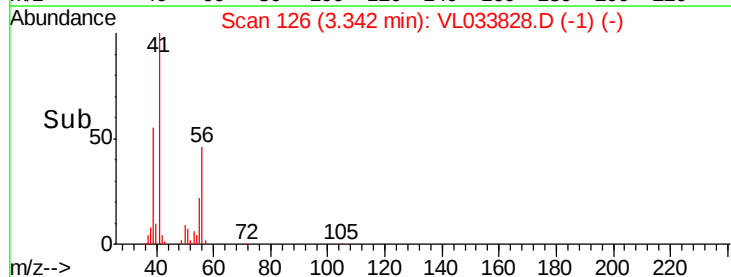
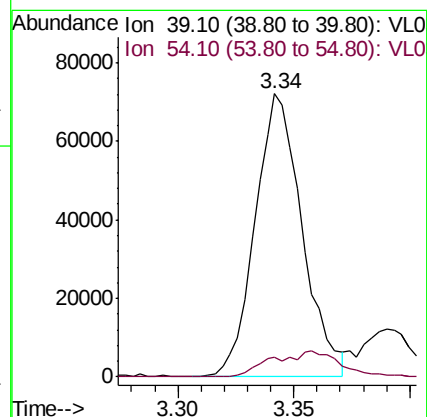
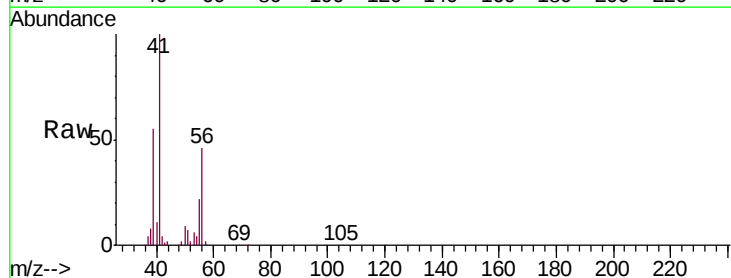
Acq: 29 May 2019 7:39

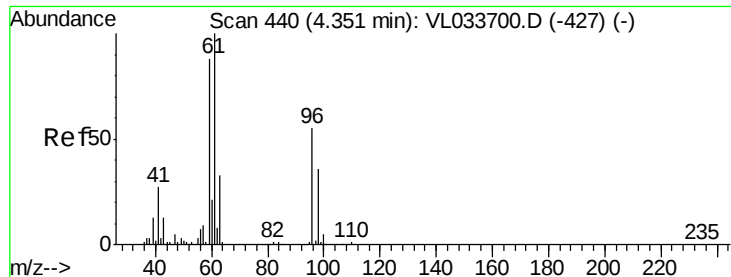
Tgt Ion: 39 Resp: 101839

Ion Ratio Lower Upper

39 100

54 13.1 69.0 103.6#





#17

tert-Butyl alcohol

Concen: 0.118 ppbv

RT: 4.37 min Scan# 447

Delta R.T. 0.02 min

Lab File: VL033828.D

Acq: 29 May 2019 7:39

Instrument :

MSVOA_L

ClientSampleId :

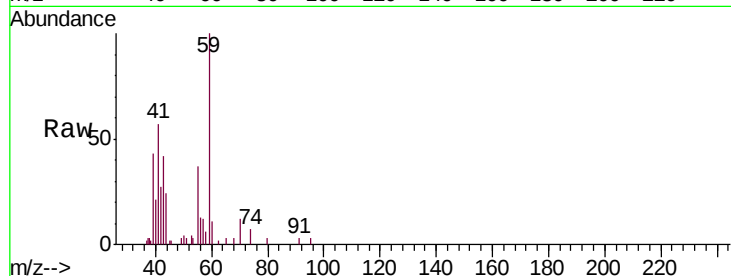
BPS1-SG-3010-25

Tgt Ion: 59 Resp: 10736

Ion Ratio Lower Upper

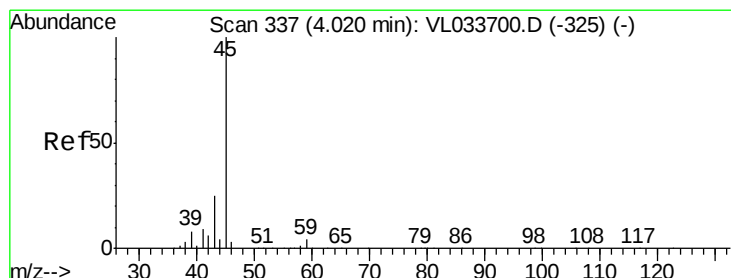
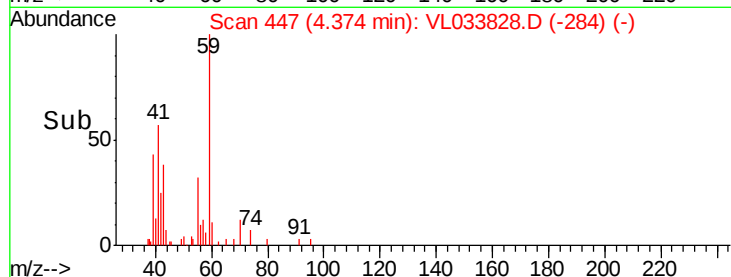
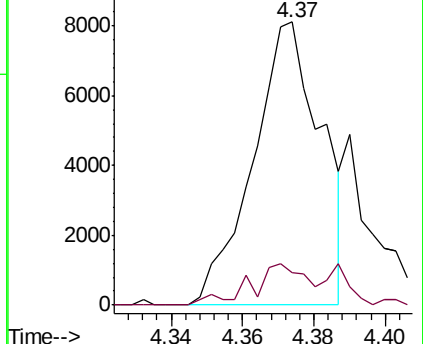
59 100

57 0.0 8.4 12.6#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#19

Isopropyl Alcohol

Concen: 0.051 ppbv

RT: 4.03 min Scan# 340

Delta R.T. 0.01 min

Lab File: VL033828.D

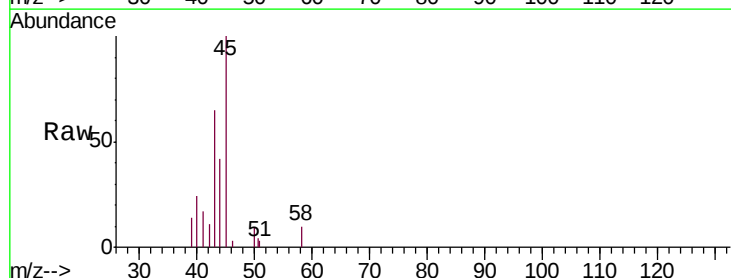
Acq: 29 May 2019 7:39

Tgt Ion: 45 Resp: 3678

Ion Ratio Lower Upper

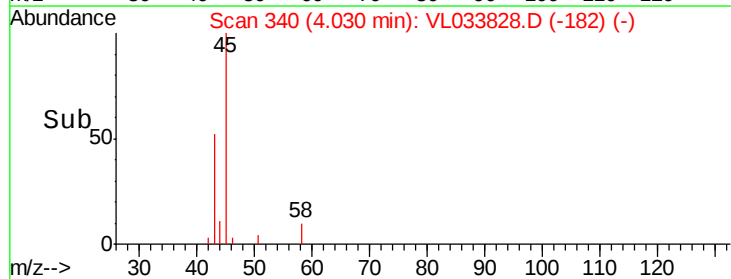
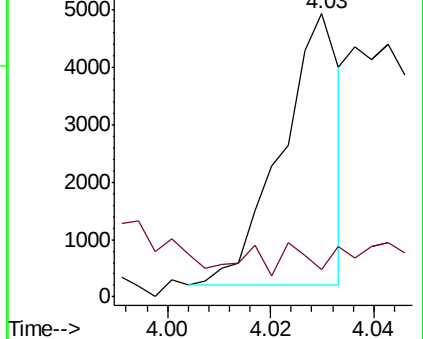
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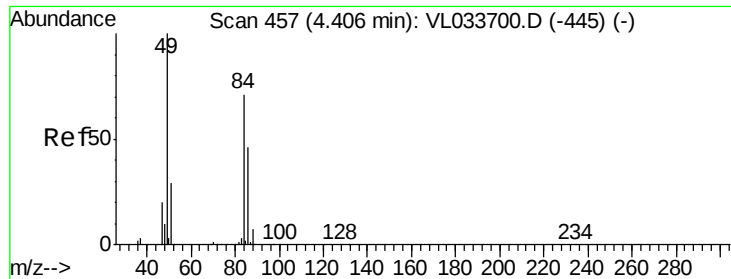
58 0.0 1.6 2.4#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

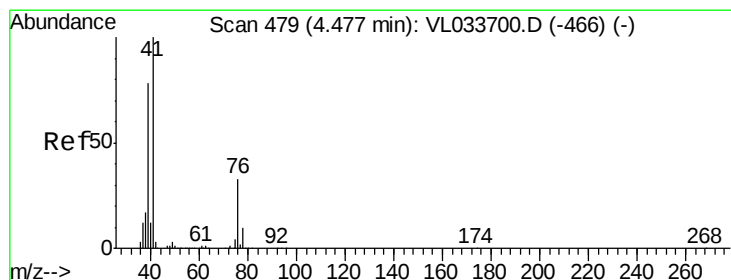
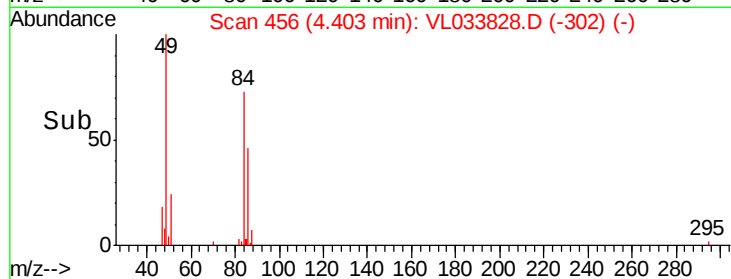
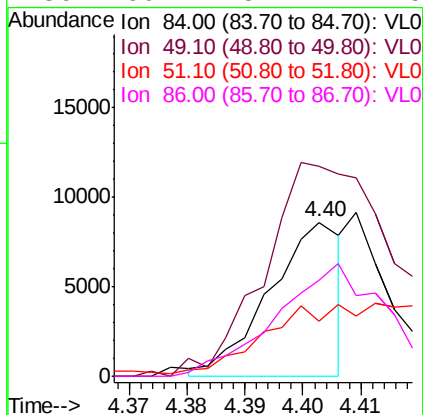
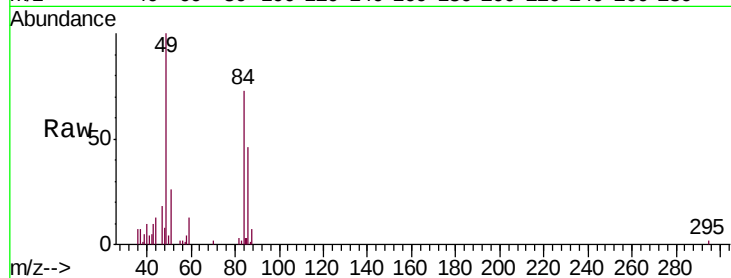




#20
Methylene Chloride
Concen: 0.171 ppbv
RT: 4.40 min Scan# 456
Delta R.T. -0.00 min
Lab File: VL033828.D
Acq: 29 May 2019 7:39

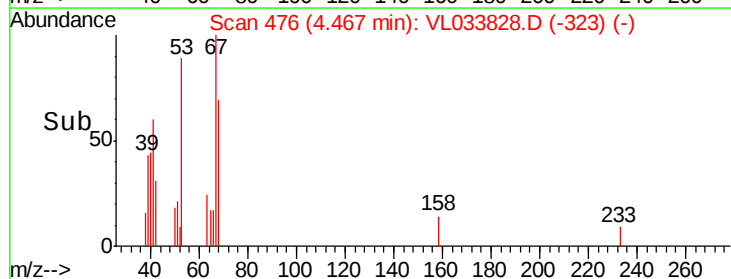
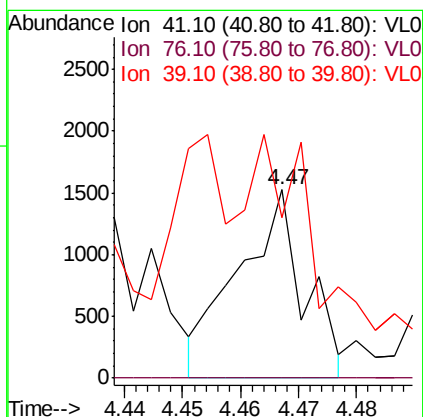
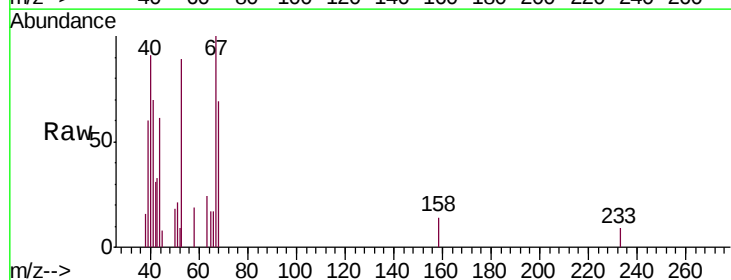
Instrument :
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BPS1-SG-3010-25

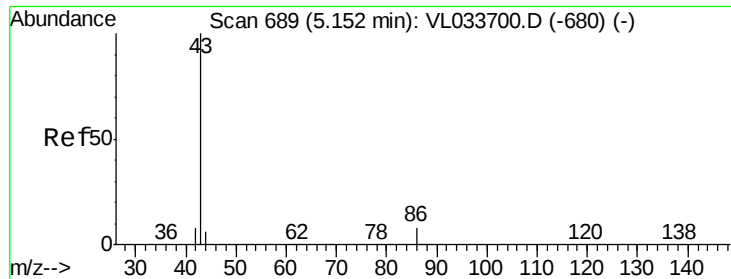
Tgt Ion:	84	Resp:	7420
Ion	Ratio	Lower	Upper
84	100		
49	132.3	112.8	169.2
51	32.7	33.4	50.0#
86	60.4	51.7	77.5



#21
Allyl Chloride
Concen: 0.017 ppbv
RT: 4.47 min Scan# 476
Delta R.T. -0.01 min
Lab File: VL033828.D
Acq: 29 May 2019 7:39

Tgt Ion:	41	Resp:	1207
Ion	Ratio	Lower	Upper
41	100		
76	0.0	25.9	38.9#
39	356.8	64.6	97.0#





#23

Vinyl Acetate

Concen: 0.014 ppbv

RT: 5.15 min Scan# 688

Delta R.T. -0.00 min

Lab File: VL033828.D

Acq: 29 May 2019 7:39

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3010-25

Tgt Ion: 43 Resp: 2098

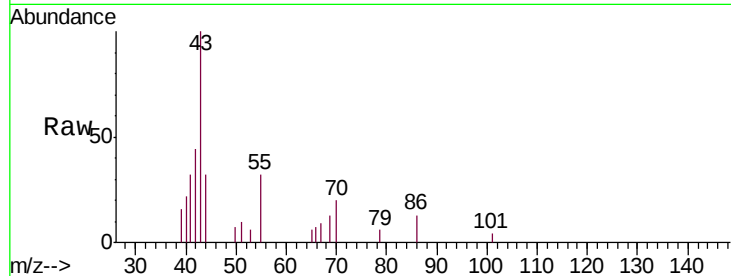
Ion Ratio Lower Upper

43 100

86 18.3 6.0 9.0#

42 39.9 7.5 11.3#

44 0.0 4.4 6.6#

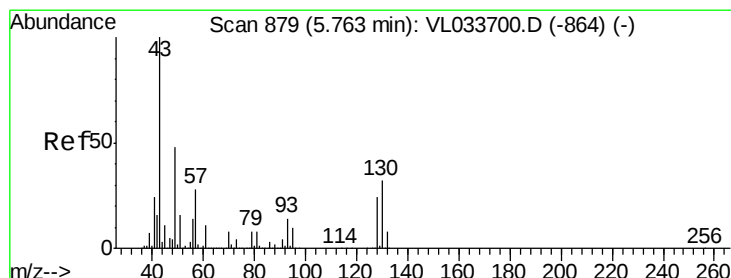
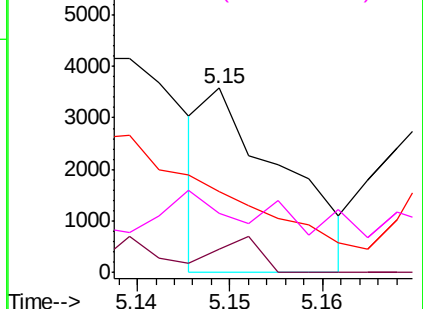
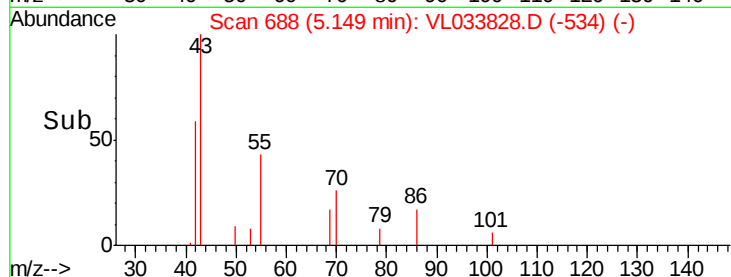


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.085 ppbv

RT: 5.77 min Scan# 881

Delta R.T. 0.01 min

Lab File: VL033828.D

Acq: 29 May 2019 7:39

Tgt Ion: 43 Resp: 16858

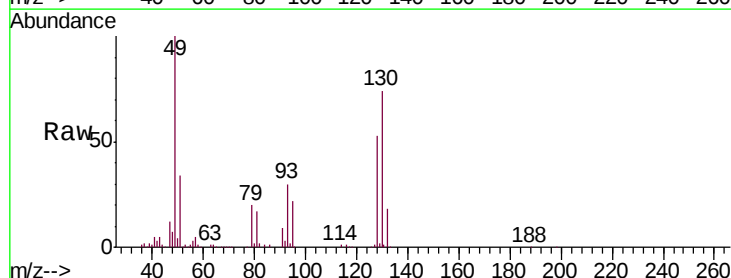
Ion Ratio Lower Upper

43 100

45 3.6 7.9 11.9#

61 2.8 7.7 11.5#

70 4.2 5.8 8.6#

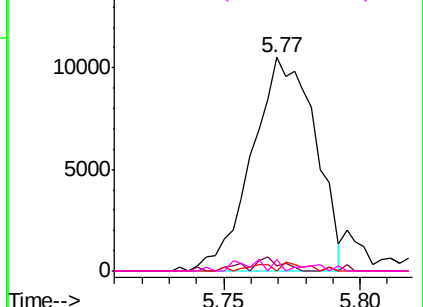
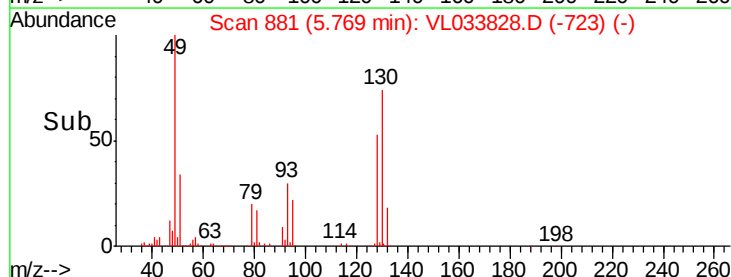


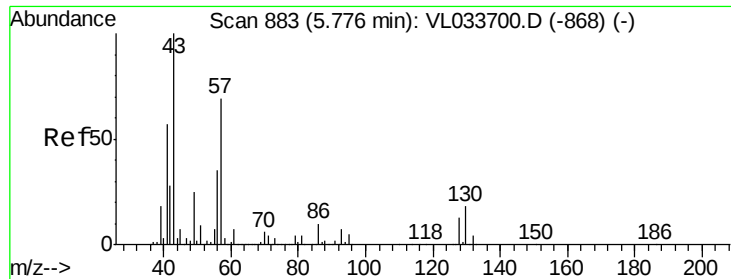
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.103 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.01 min

Lab File: VL033828.D

Acq: 29 May 2019 7:39

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3010-25

Tgt Ion: 57 Resp: 8743

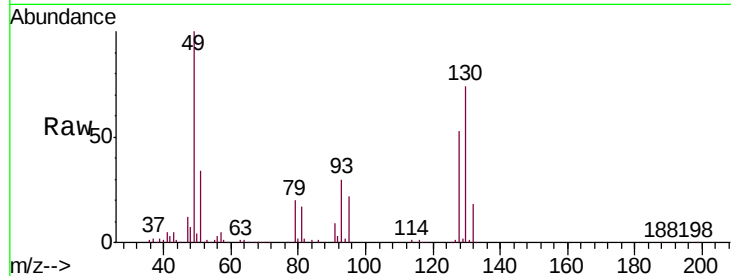
Ion Ratio Lower Upper

57 100

41 0.0 69.8 104.6#

43 209.7 181.8 272.6

56 0.0 42.1 63.1#

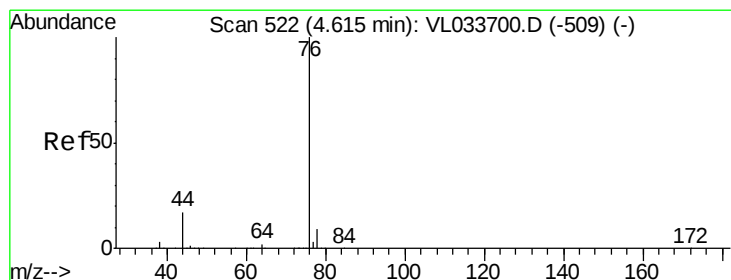
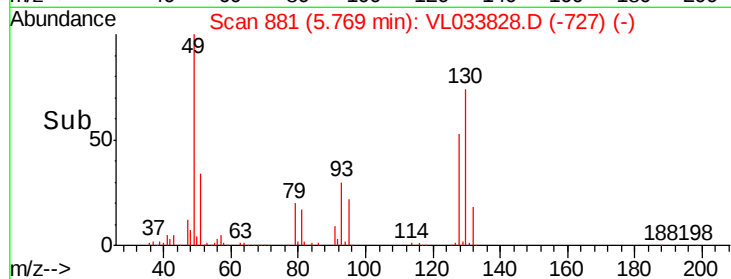
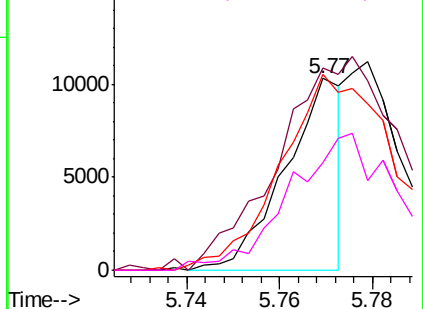


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 0.146 ppbv

RT: 4.62 min Scan# 522

Delta R.T. -0.00 min

Lab File: VL033828.D

Acq: 29 May 2019 7:39

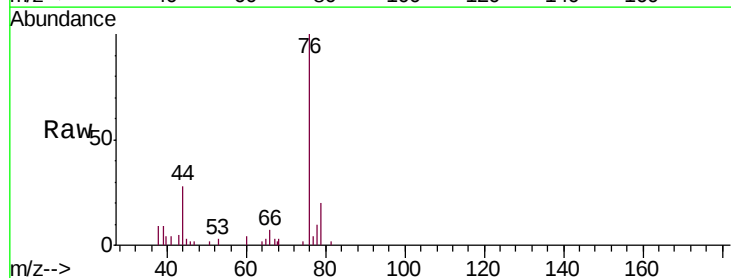
Tgt Ion: 76 Resp: 17081

Ion Ratio Lower Upper

76 100

44 32.7 13.8 20.8#

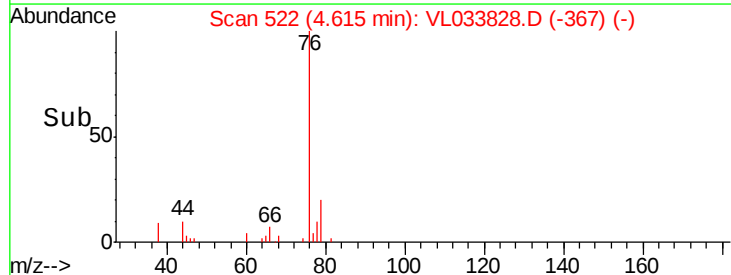
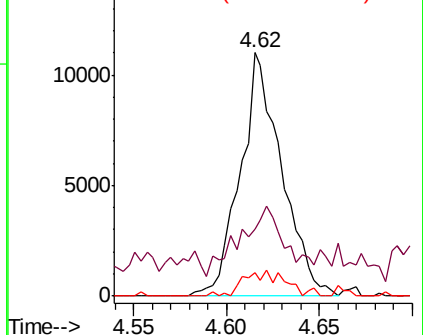
78 11.9 7.4 11.0#

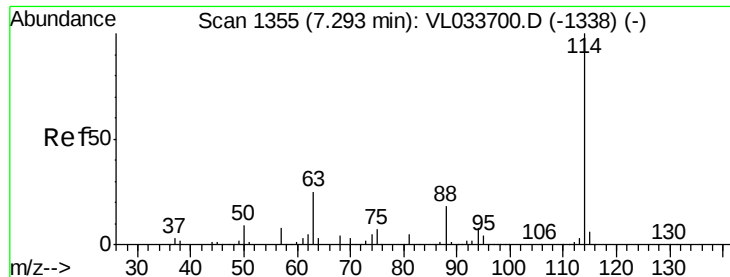


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0

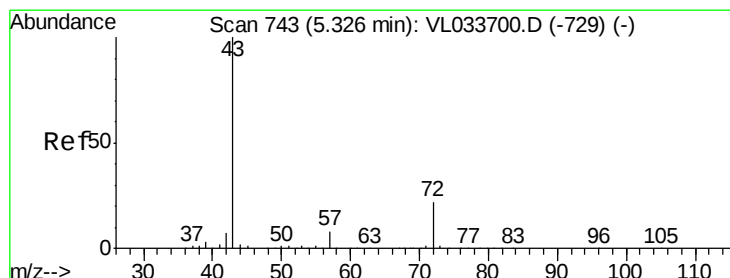
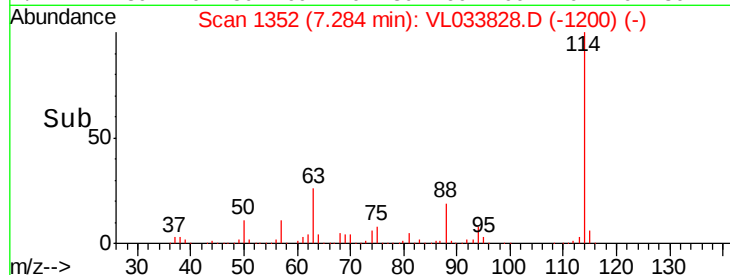
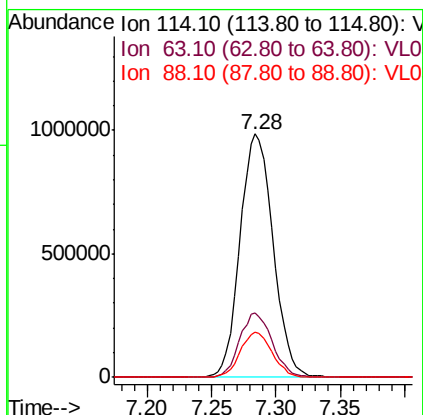
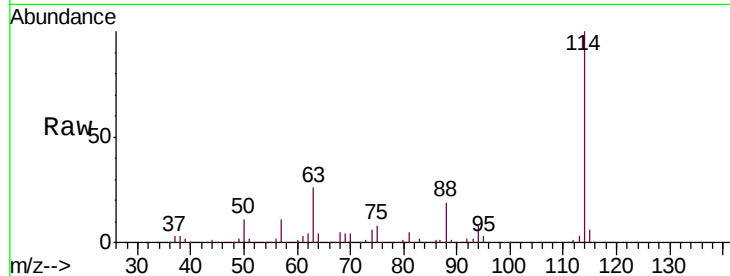




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1352
 Delta R.T. -0.01 min
 Lab File: VL033828.D
 Acq: 29 May 2019 7:39

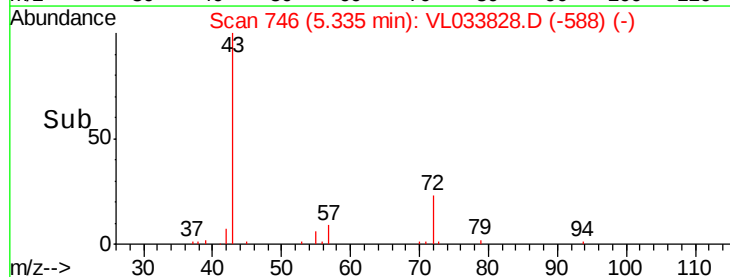
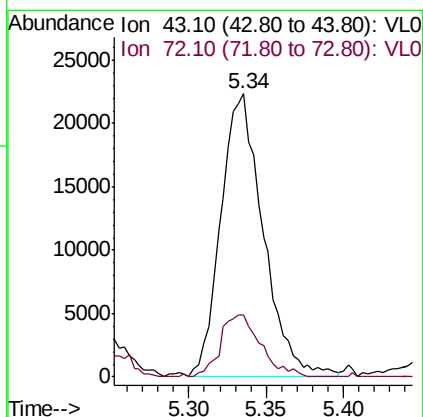
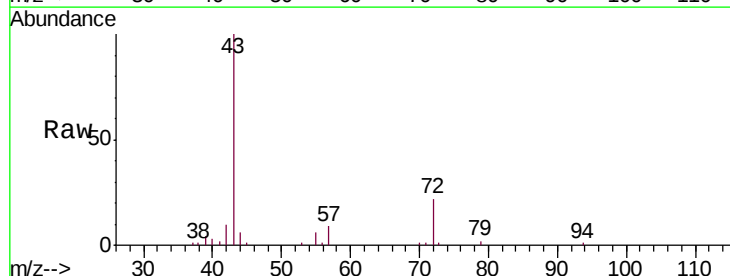
Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3010-25

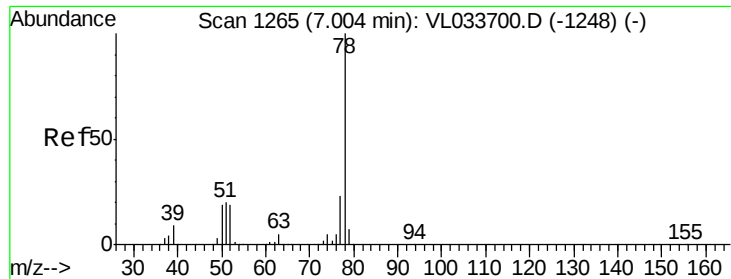
Tgt Ion:114 Resp: 1758942
 Ion Ratio Lower Upper
 114 100
 63 26.2 20.9 31.3
 88 18.0 14.3 21.5



#34
 2-Butanone
 Concen: 0.390 ppbv
 RT: 5.34 min Scan# 746
 Delta R.T. 0.01 min
 Lab File: VL033828.D
 Acq: 29 May 2019 7:39

Tgt Ion: 43 Resp: 42559
 Ion Ratio Lower Upper
 43 100
 72 20.9 17.8 26.6





#36

Benzene

Concen: 0.064 ppbv

RT: 6.99 min Scan# 1262

Delta R.T. -0.01 min

Lab File: VL033828.D

Acq: 29 May 2019 7:39

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3010-25

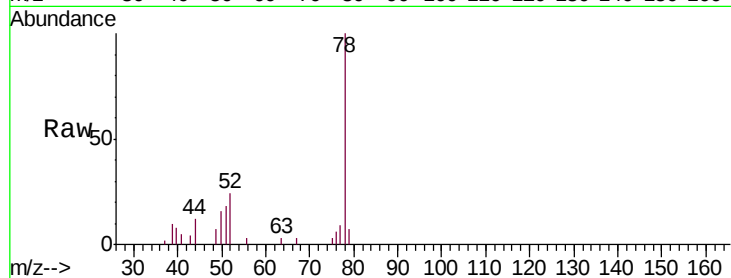
Tgt Ion: 78 Resp: 10263

Ion Ratio Lower Upper

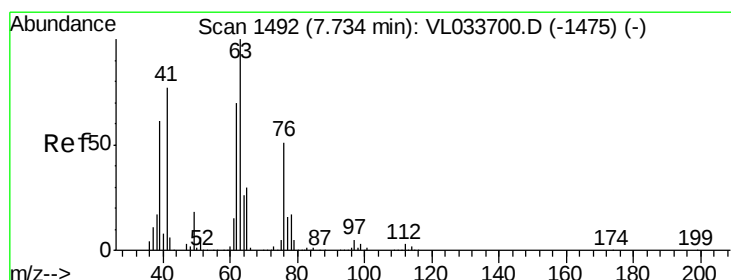
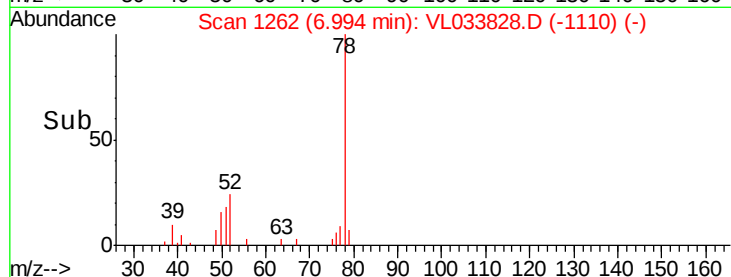
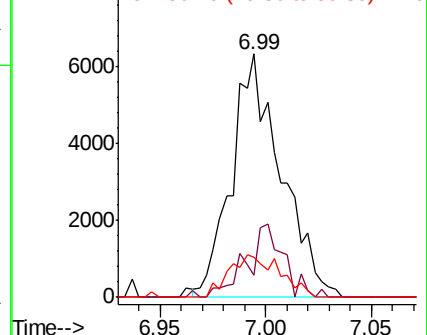
78 100

77 8.7 18.4 27.6#

50 15.2 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: 7.696 ppbv

RT: 7.28 min Scan# 1352

Delta R.T. -0.45 min

Lab File: VL033828.D

Acq: 29 May 2019 7:39

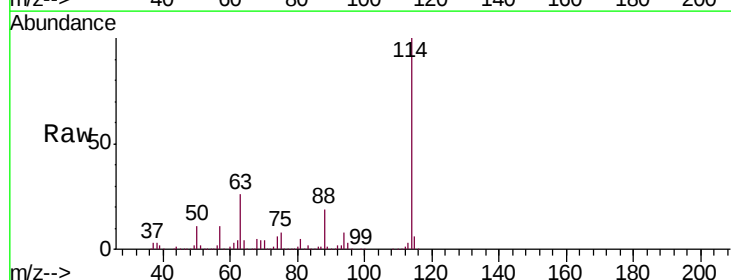
Tgt Ion: 63 Resp: 459077

Ion Ratio Lower Upper

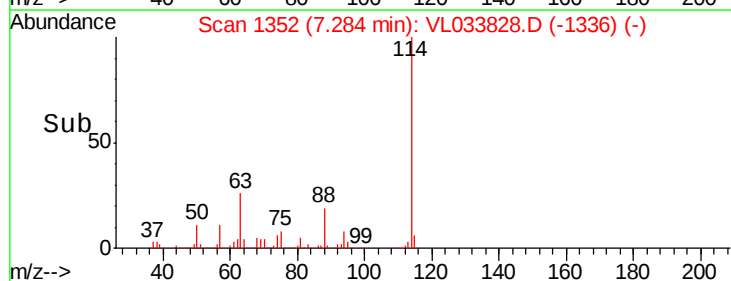
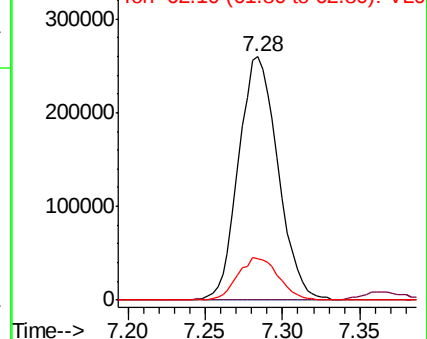
63 100

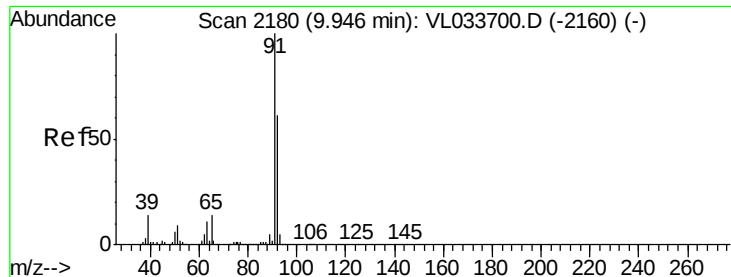
41 0.0 61.5 92.3#

62 16.8 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





#53

Toluene

Concen: 0.628 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033828.D

Acq: 29 May 2019 7:39

Instrument :

MSVOA_L

ClientSampleId :

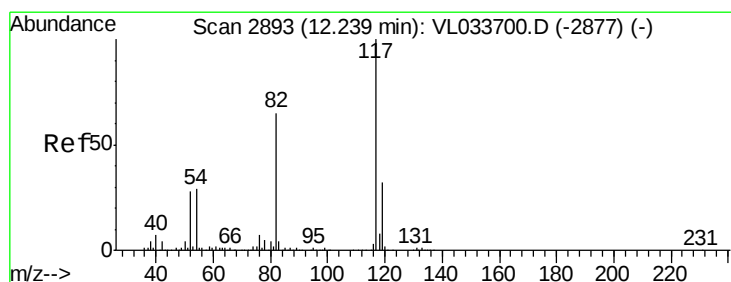
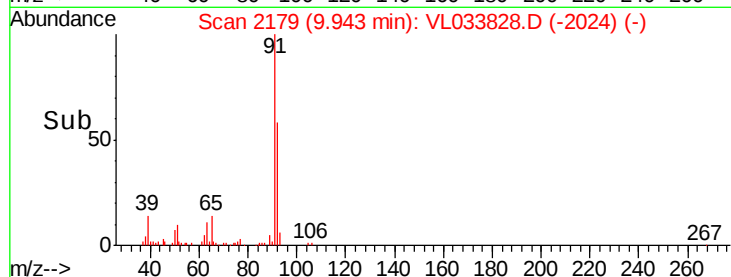
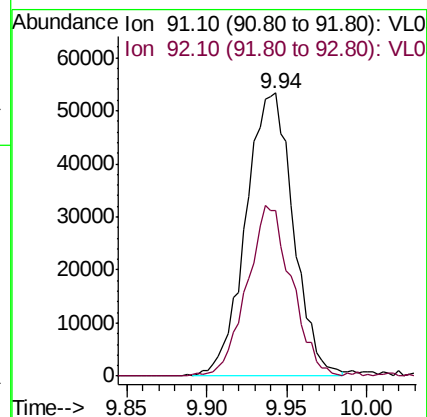
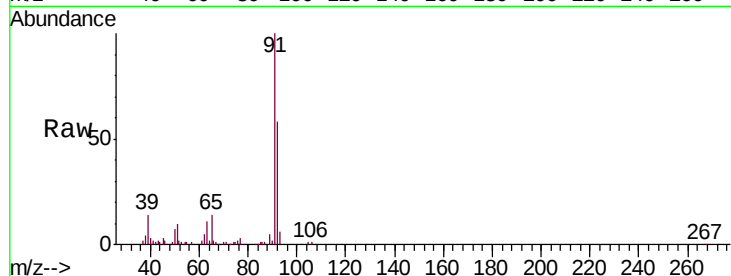
BPS1-SG-3010-25

Tgt Ion: 91 Resp: 108356

Ion Ratio Lower Upper

91 100

92 57.4 47.6 71.4



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL033828.D

Acq: 29 May 2019 7:39

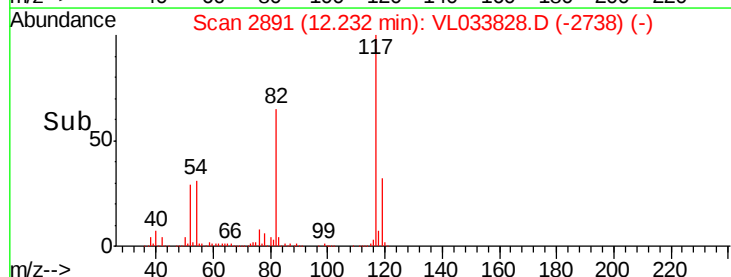
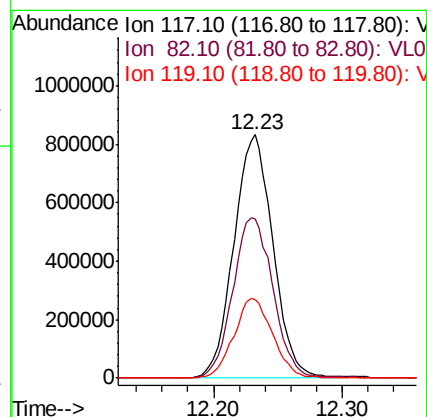
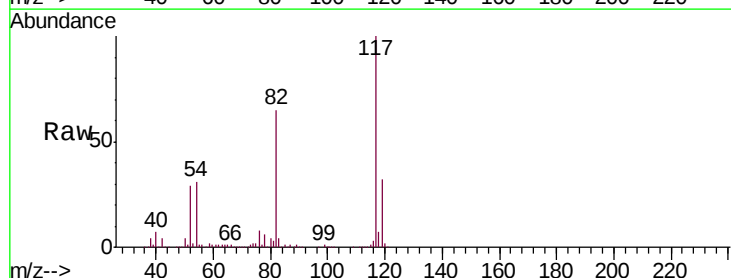
Tgt Ion: 117 Resp: 1756652

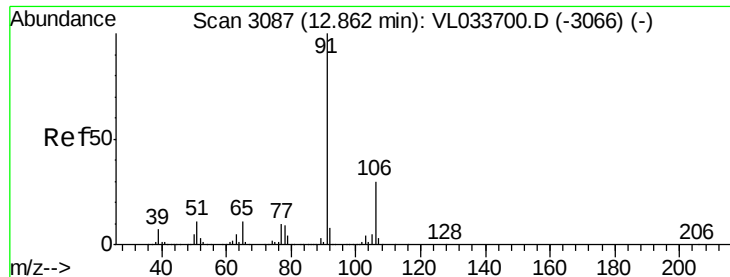
Ion Ratio Lower Upper

117 100

82 68.5 49.4 74.0

119 32.6 24.9 37.3





#58

Ethyl Benzene

Concen: 0.031 ppbv

RT: 12.85 min Scan# 3084

Delta R.T. -0.01 min

Lab File: VL033828.D

Acq: 29 May 2019 7:39

Instrument :

MSVOA_L

ClientSampleId :

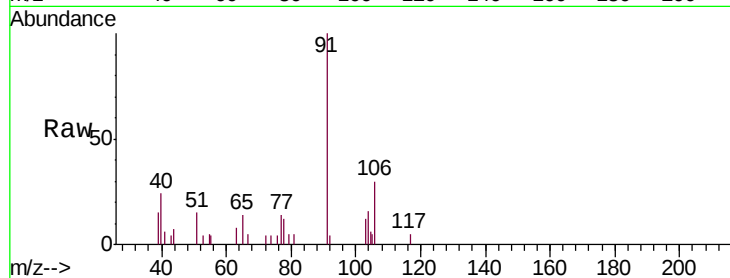
BPS1-SG-3010-25

Tgt Ion: 91 Resp: 7110

Ion Ratio Lower Upper

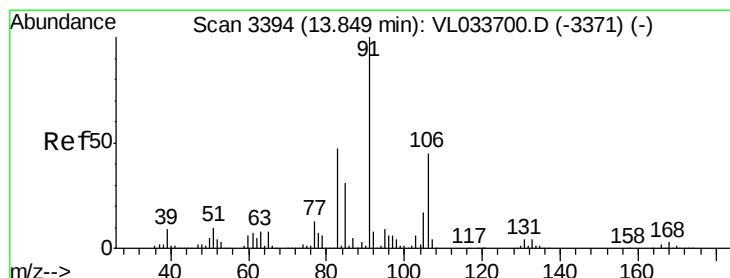
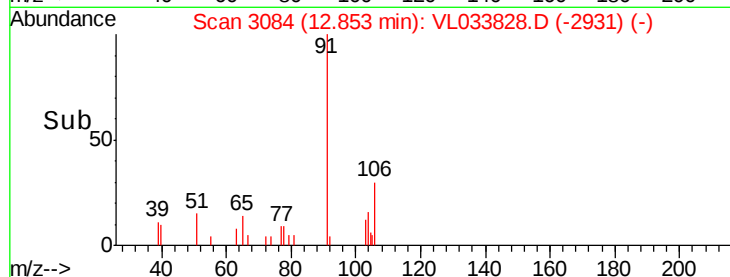
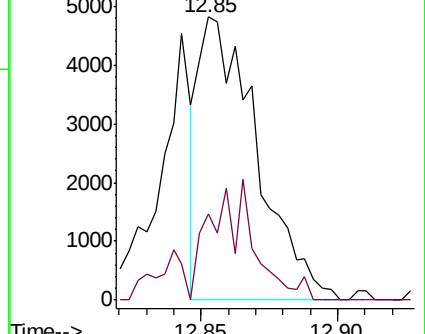
91 100

106 30.5 23.9 35.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.025 ppbv

RT: 13.85 min Scan# 3393

Delta R.T. -0.00 min

Lab File: VL033828.D

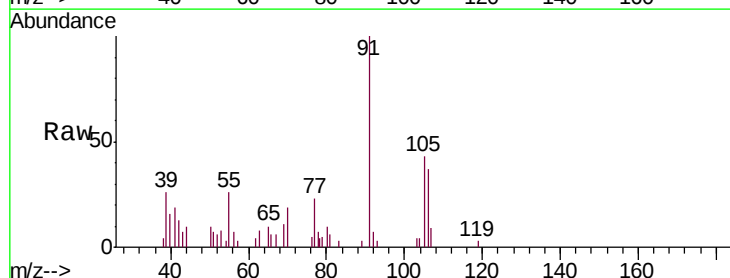
Acq: 29 May 2019 7:39

Tgt Ion: 91 Resp: 5032

Ion Ratio Lower Upper

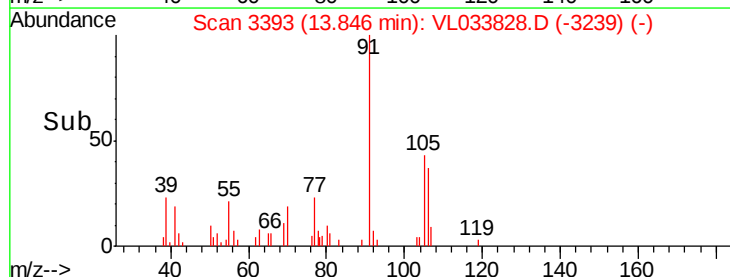
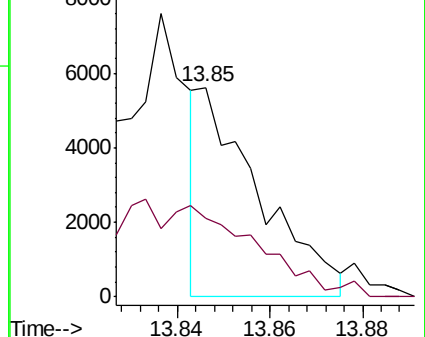
91 100

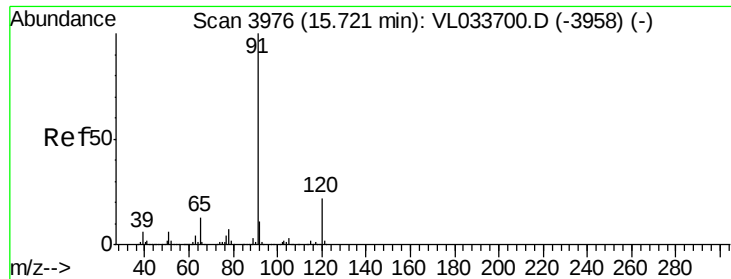
106 0.0 21.6 64.8#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#64

n-propylbenzene

Concen: 0.018 ppbv

RT: 15.92 min Scan# 4038

Delta R.T. 0.20 min

Lab File: VL033828.D

Acq: 29 May 2019 7:39

Instrument :

MSVOA_L

ClientSampleId :

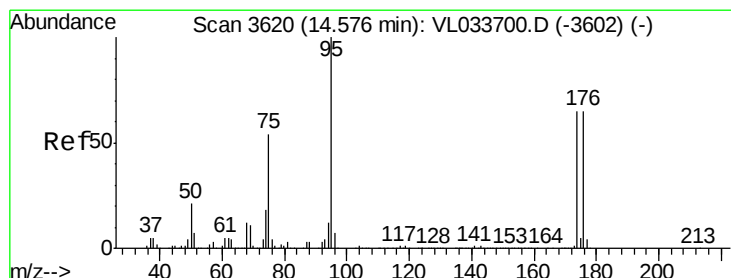
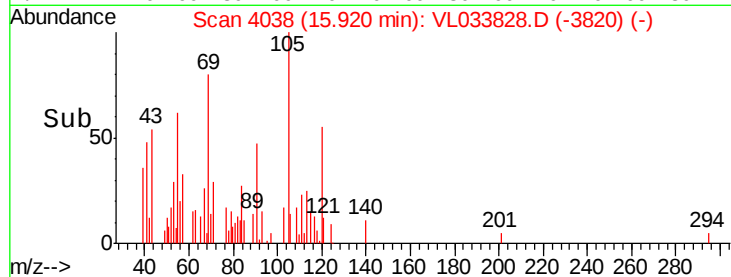
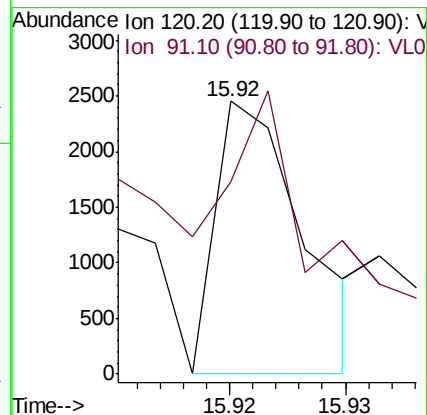
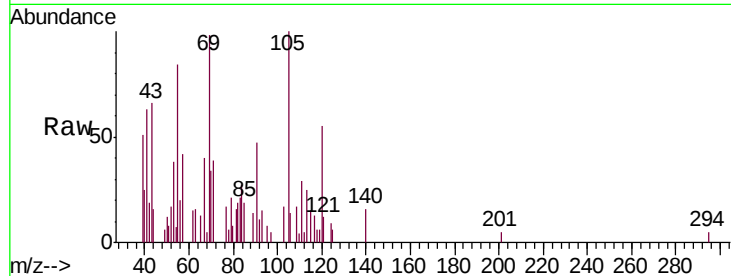
BPS1-SG-3010-25

Tgt Ion:120 Resp: 1280

Ion Ratio Lower Upper

120 100

91 420.7 379.1 568.7



#68

1-Bromo-4-Fluorobenzene

Concen: 10.808 ppbv

RT: 14.57 min Scan# 3617

Delta R.T. -0.01 min

Lab File: VL033828.D

Acq: 29 May 2019 7:39

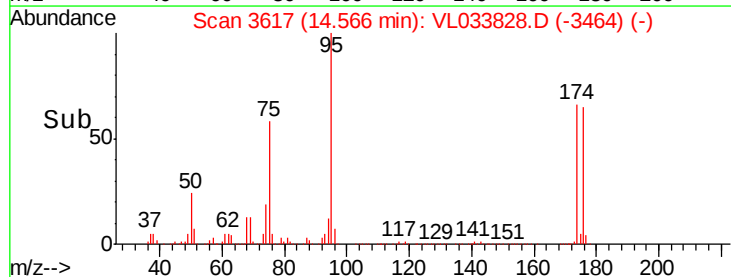
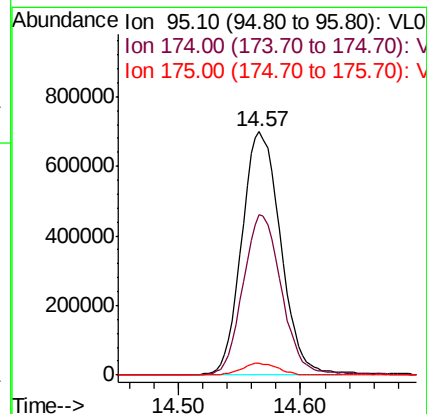
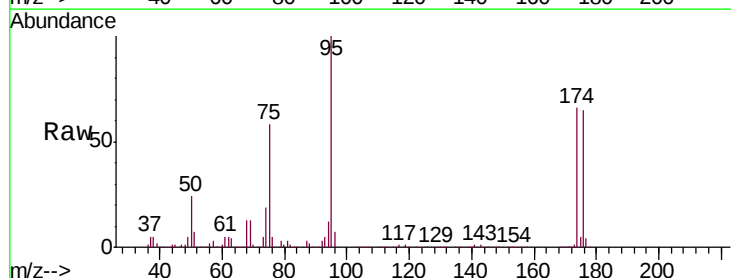
Tgt Ion: 95 Resp: 1539154

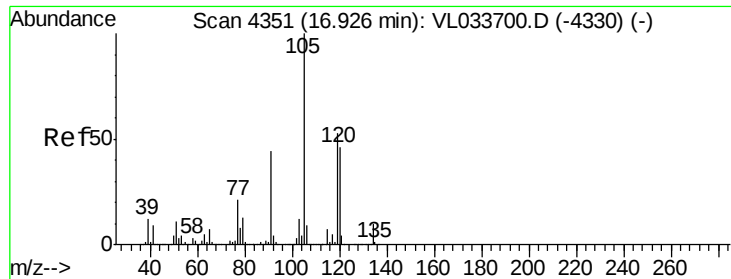
Ion Ratio Lower Upper

95 100

174 66.1 53.9 80.9

175 4.8 3.8 5.8





#74
 1,2,4-Trimethylbenzene
 Concen: 0.020 ppbv
 RT: 16.92 min Scan# 4349
 Delta R.T. -0.01 min
 Lab File: VL033828.D
 Acq: 29 May 2019 7:39

Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3010-25

Tgt Ion:	105	Resp:	4877
Ion	Ratio	Lower	Upper
105	100		
120	29.8	36.8	55.2#
91	11.7	35.4	53.0#
77	10.3	16.8	25.2#

