

Data File : VL033794.D
Acq On : 24 May 2019 4:42
Operator : SY/AP
Sample : K2929-16DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3006-25DL

Quant Time: May 24 07:34:48 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	1001470	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2509692	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2454630	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2031241	10.21	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	4812	0.023	ppbv	94
3) Chlorodifluoromethane	3.01	51	10391	0.091	ppbv	94
4) Chloromethane	3.17	50	1225	0.019	ppbv #	63
9) Propene	3.03	41	230489	4.724	ppbv	92
10) Heptane	8.24	43	18415	0.133	ppbv	99
11) Trichlorofluoromethane	4.00	101	4415	0.022	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.54	101	1748	0.012	ppbv #	13
13) Ethanol	3.65	45	81806	5.187	ppbv	95
15) Acetone	3.89	43	1568019	11.285	ppbv	97
16) 1,3-Butadiene	3.34	39	176634	3.192	ppbv #	22
17) tert-Butyl alcohol	4.37	59	40309	0.359	ppbv	97
20) Methylene Chloride	4.41	84	11334	0.212	ppbv #	91
21) Allyl Chloride	4.46	41	1561	0.018	ppbv #	1
23) Vinyl Acetate	5.14	43	7313	0.040	ppbv #	26
25) Ethyl Acetate	5.77	43	30217	0.124	ppbv #	91
26) Hexane	5.78	57	32665	0.311	ppbv #	43
27) Carbon Disulfide	4.61	76	11610	0.081	ppbv #	1
30) Cyclohexane	7.24	84	1005	0.011	ppbv #	1
34) 2-Butanone	5.33	43	153639	0.988	ppbv	99
36) Benzene	7.00	78	30449	0.133	ppbv #	91
39) 1,2-Dichloropropane	7.28	63	581307	6.830	ppbv #	22
53) Toluene	9.94	91	209439	0.851	ppbv	98
58) Ethyl Benzene	12.86	91	32791	0.101	ppbv	97
59) m/p-Xylene	13.14	91	27142	0.096	ppbv #	31
60) o-Xylene	13.84	91	44768	0.156	ppbv	99
64) n-propylbenzene	15.70	120	1589	0.016	ppbv #	1
73) 1,3,5-Trimethylbenzene	16.15	105	3470	0.011	ppbv #	32
74) 1,2,4-Trimethylbenzene	16.92	105	39890	0.115	ppbv #	73
75) 1,3-Dichlorobenzene	17.15	146	2281	0.011	ppbv #	23

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

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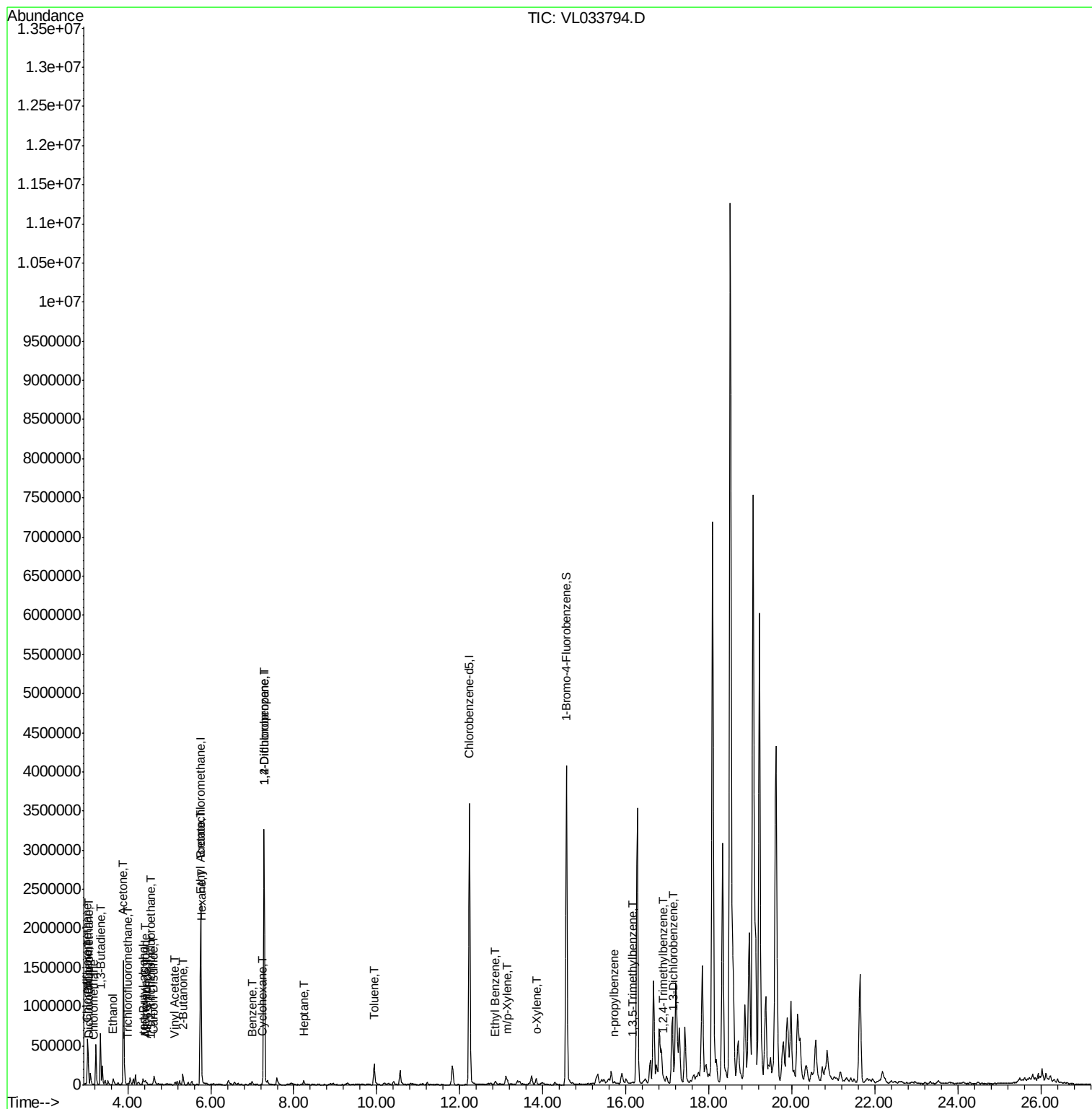
Quant Time: May 24 07:34:48 2019

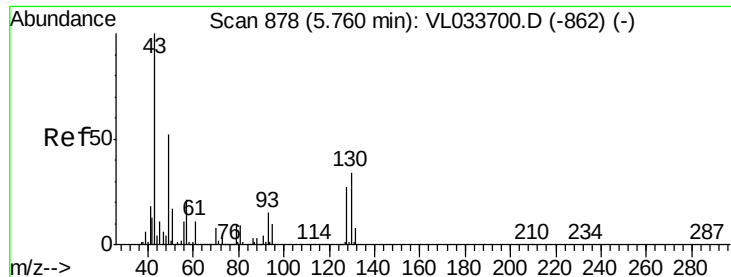
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_L\METHODS\VL051719AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri 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: 5.76 min Scan# 877

Delta R.T. -0.00 min

Lab File: VL033794.D

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BPS1-SG-3006-25DL

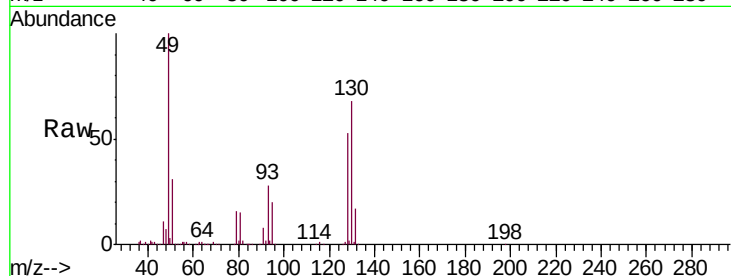
Tgt Ion: 49 Resp: 1001470

Ion Ratio Lower Upper

49 100

128 53.4 25.2 75.6

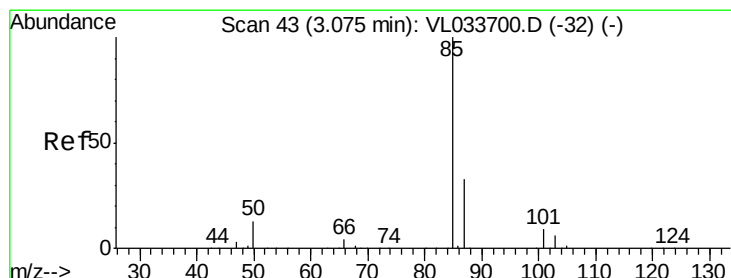
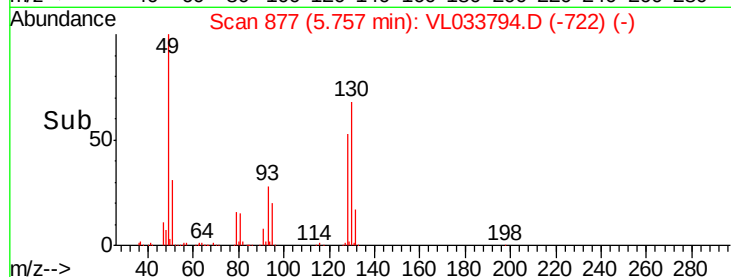
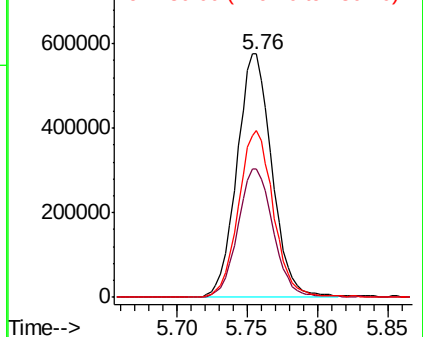
130 68.9 32.5 97.5



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: 0.023 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033794.D

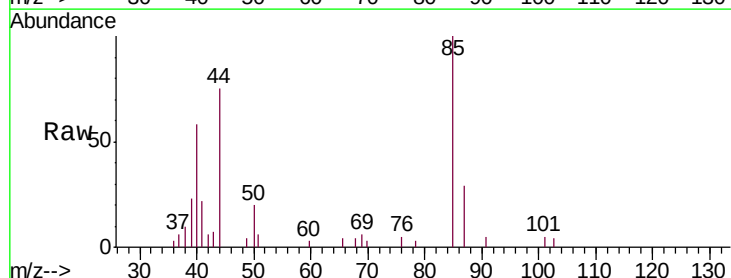
Acq: 24 May 2019 4:42

Tgt Ion: 85 Resp: 4812

Ion Ratio Lower Upper

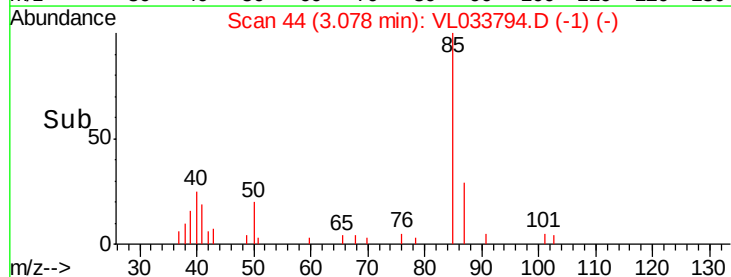
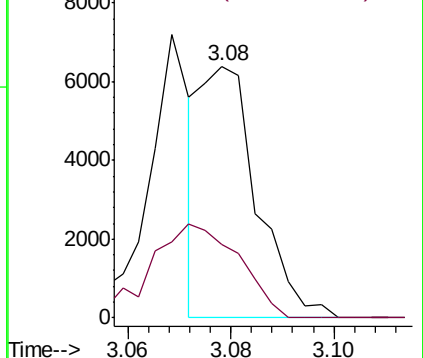
85 100

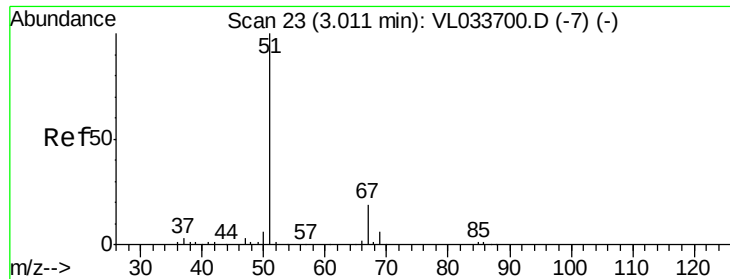
87 29.3 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

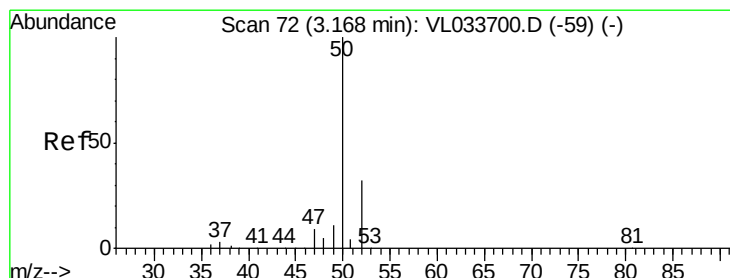
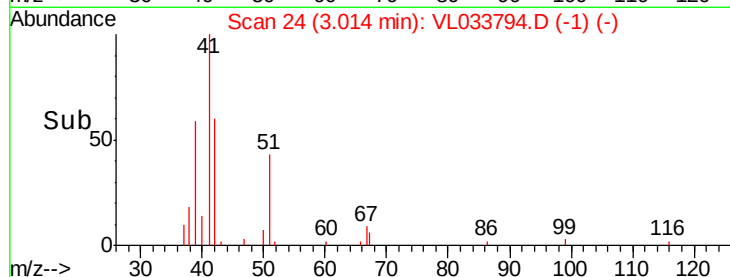
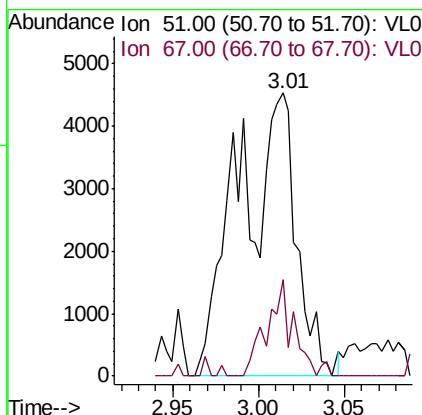
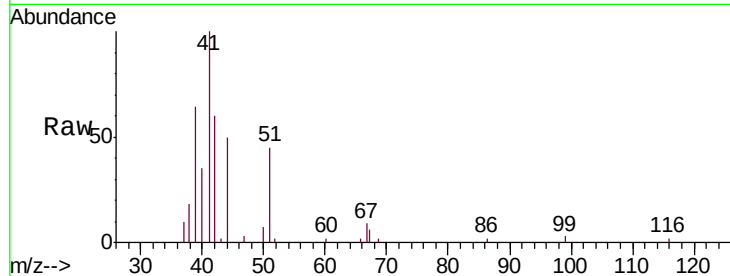




#3
 Chlorodifluoromethane
 Concen: 0.091 ppbv
 RT: 3.01 min Scan# 24
 Delta R.T. 0.00 min
 Lab File: VL033794.D
 Acq: 24 May 2019 4:42

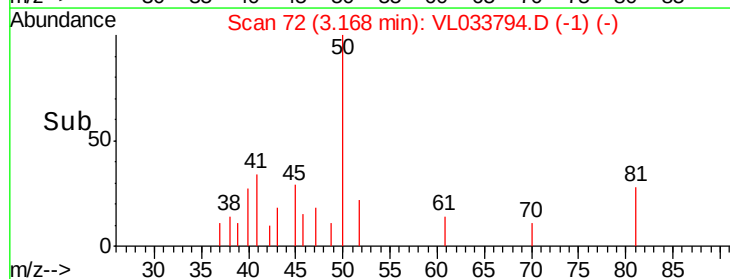
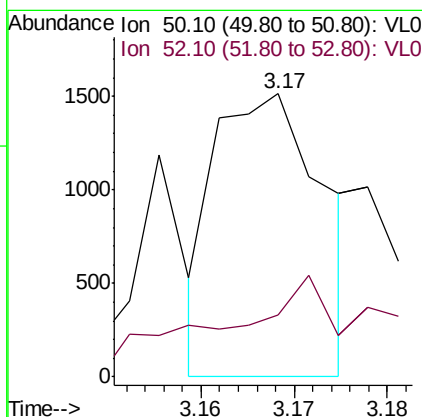
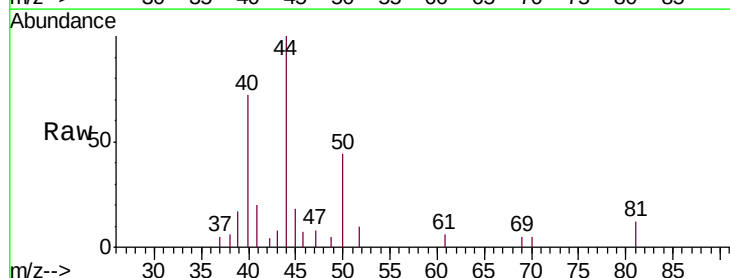
Instrument :
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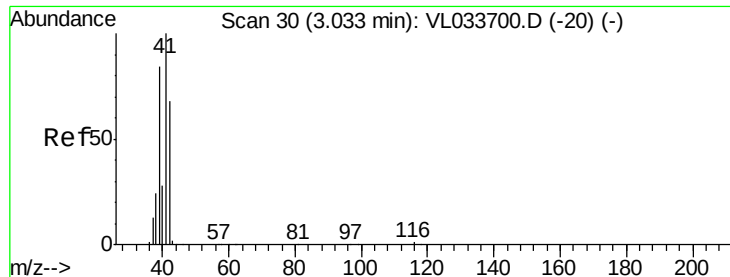
Tgt Ion: 51 Resp: 10391
 Ion Ratio Lower Upper
 51 100
 67 16.9 15.6 23.4



#4
 Chloromethane
 Concen: 0.019 ppbv
 RT: 3.17 min Scan# 72
 Delta R.T. 0.00 min
 Lab File: VL033794.D
 Acq: 24 May 2019 4:42

Tgt Ion: 50 Resp: 1225
 Ion Ratio Lower Upper
 50 100
 52 11.2 25.7 38.5#





#9

Propene

Concen: 4.724 ppbv

RT: 3.03 min Scan# 30

Delta R.T. 0.00 min

Lab File: VL033794.D

Acq: 24 May 2019 4:42

Instrument :

MSVOA_L

ClientSampleId :

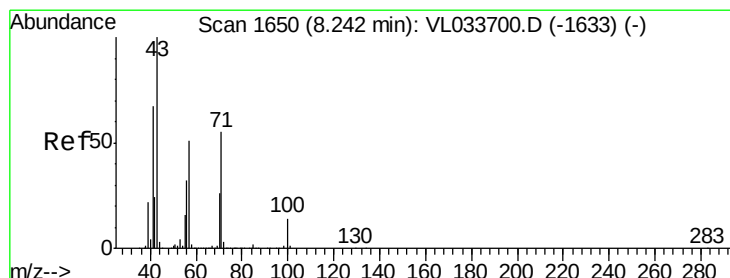
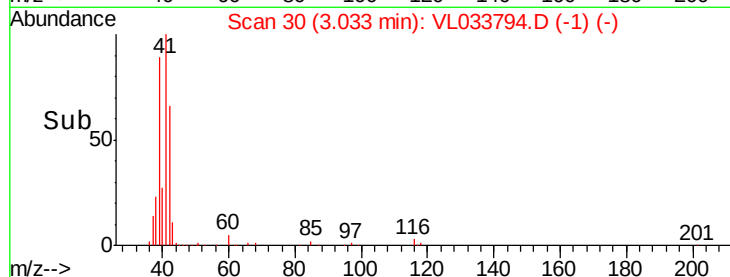
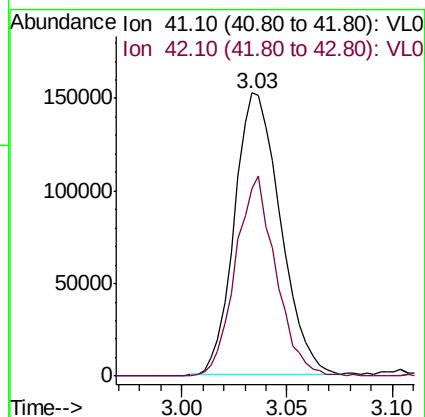
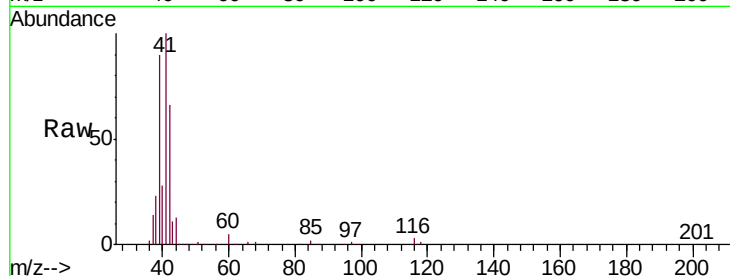
BPS1-SG-3006-25DL

Tgt Ion: 41 Resp: 230489

Ion Ratio Lower Upper

41 100

42 63.4 56.1 84.1



#10

Heptane

Concen: 0.133 ppbv

RT: 8.24 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VL033794.D

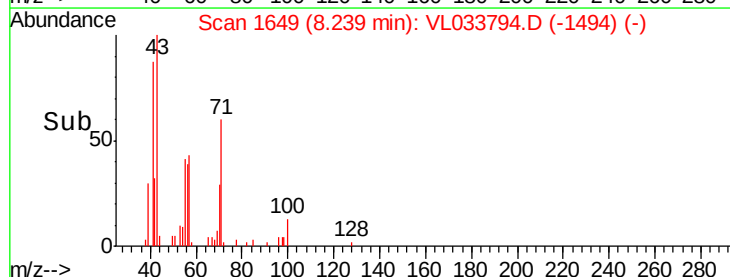
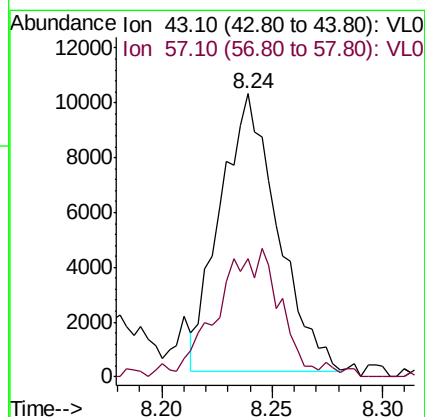
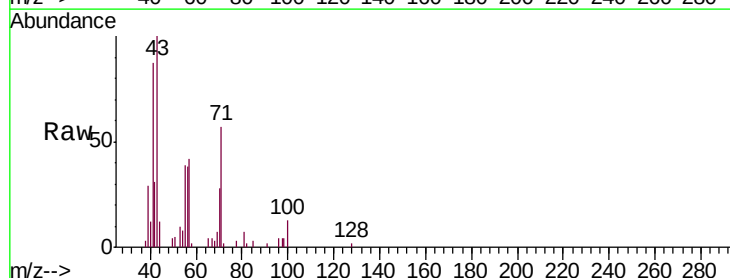
Acq: 24 May 2019 4:42

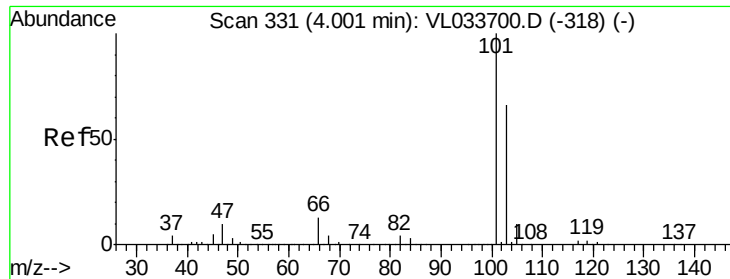
Tgt Ion: 43 Resp: 18415

Ion Ratio Lower Upper

43 100

57 52.6 41.4 62.0

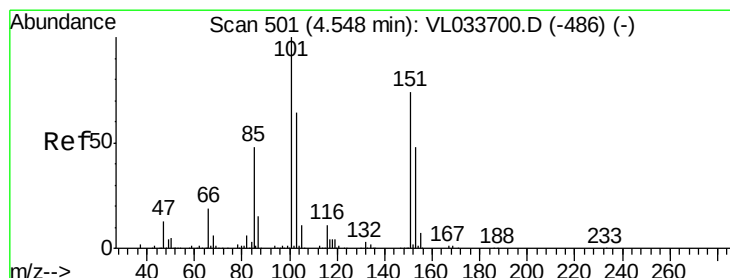
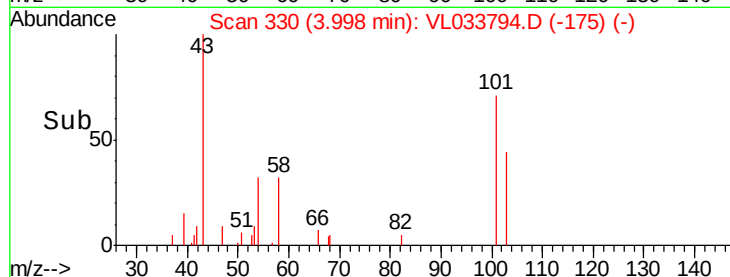
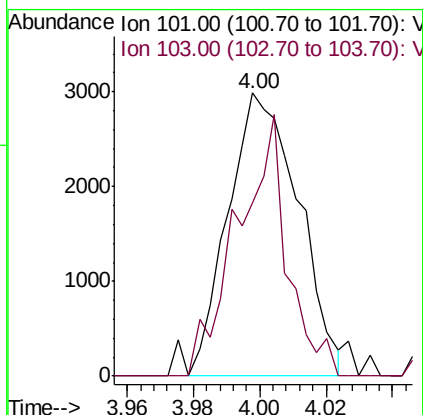
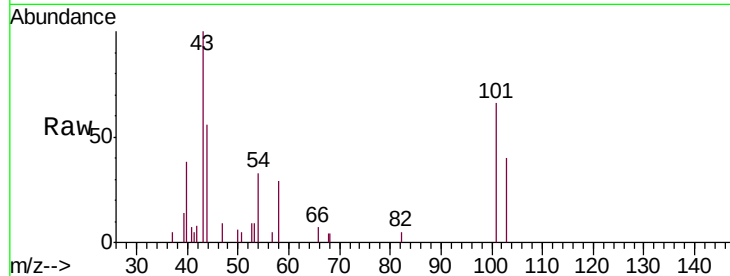




#11
 Trichlorofluoromethane
 Concen: 0.022 ppbv
 RT: 4.00 min Scan# 330
 Delta R.T. -0.00 min
 Lab File: VL033794.D
 Acq: 24 May 2019 4:42

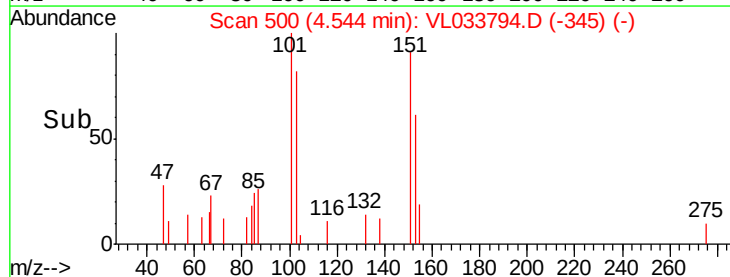
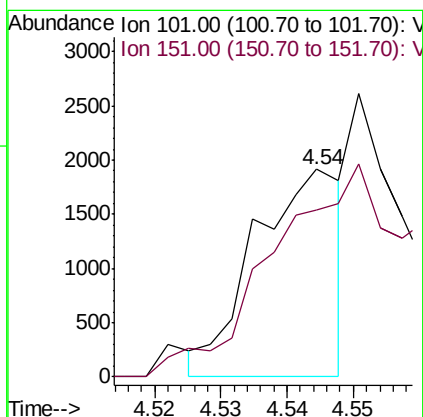
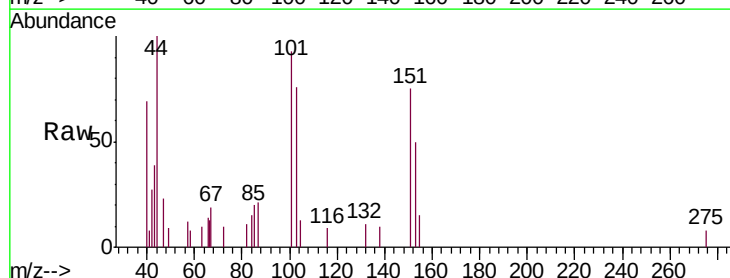
Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3006-25DL

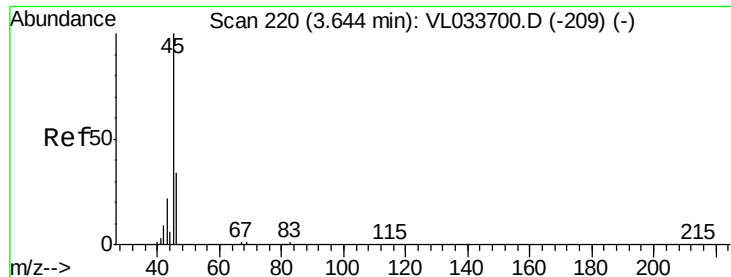
Tgt Ion:101 Resp: 4415
 Ion Ratio Lower Upper
 101 100
 103 61.3 52.6 78.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.012 ppbv
 RT: 4.54 min Scan# 500
 Delta R.T. -0.00 min
 Lab File: VL033794.D
 Acq: 24 May 2019 4:42

Tgt Ion:101 Resp: 1748
 Ion Ratio Lower Upper
 101 100
 151 0.0 58.2 87.4#

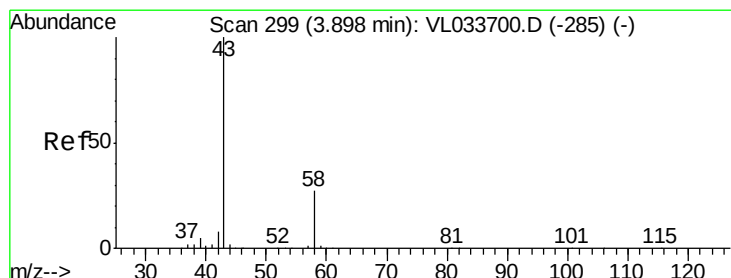
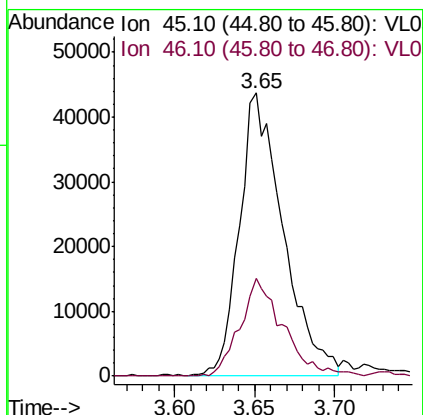
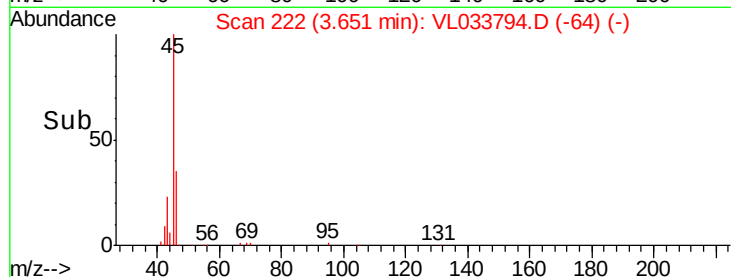
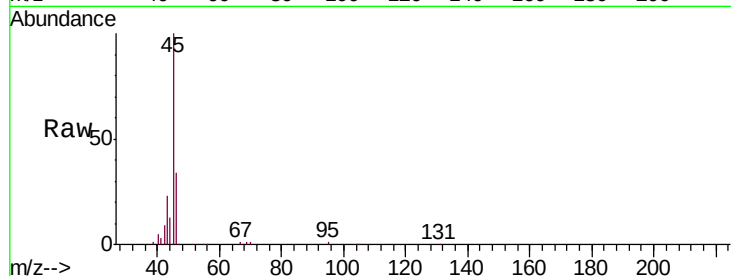




#13
Ethanol
Concen: 5.187 ppbv
RT: 3.65 min Scan# 222
Delta R.T. 0.01 min
Lab File: VL033794.D
Acq: 24 May 2019 4:42

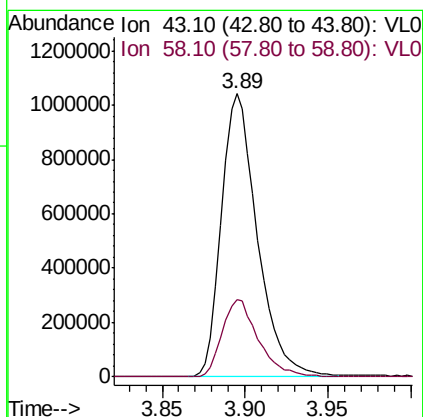
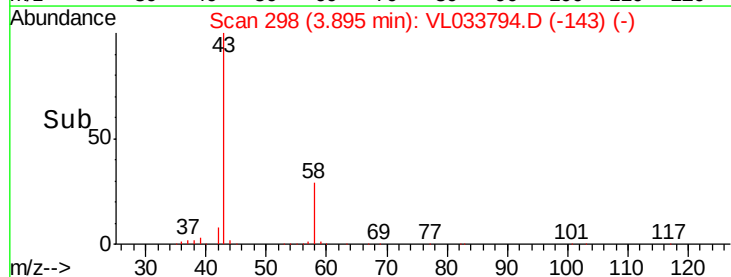
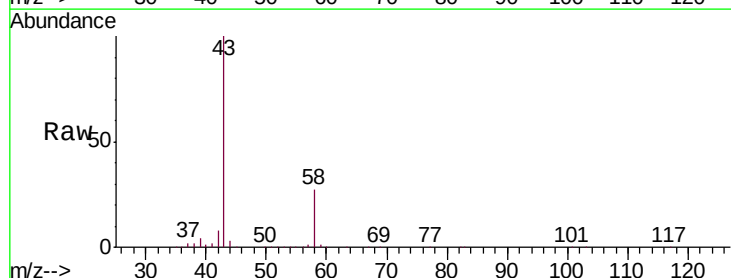
Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3006-25DL

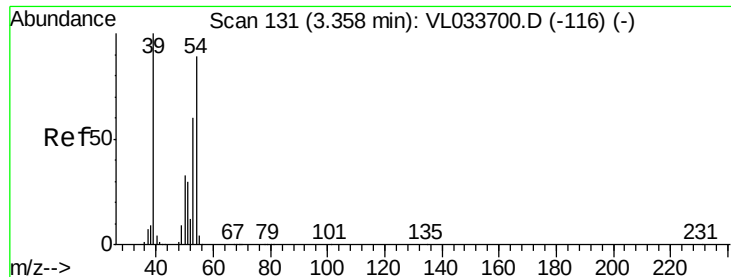
Tgt Ion: 45 Resp: 81806
Ion Ratio Lower Upper
45 100
46 34.2 14.8 59.0



#15
Acetone
Concen: 11.285 ppbv
RT: 3.89 min Scan# 298
Delta R.T. -0.00 min
Lab File: VL033794.D
Acq: 24 May 2019 4:42

Tgt Ion: 43 Resp: 1568019
Ion Ratio Lower Upper
43 100
58 28.0 21.3 31.9

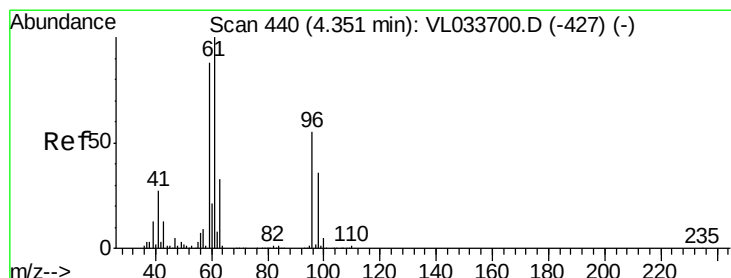
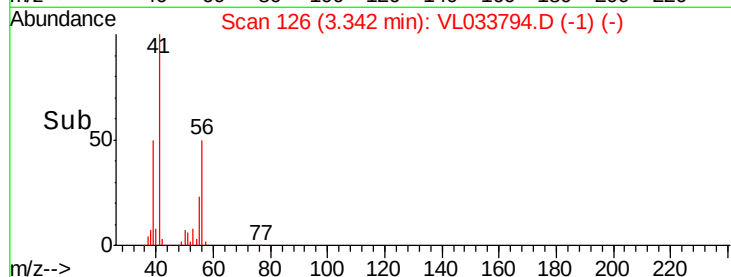
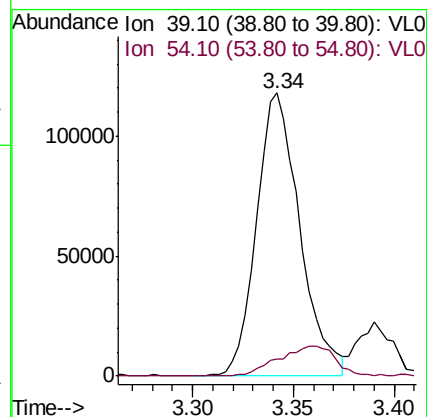
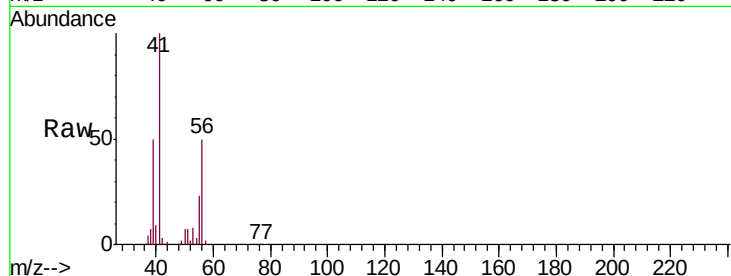




#16
 1,3-Butadiene
 Concen: 3.192 ppbv
 RT: 3.34 min Scan# 126
 Delta R.T. -0.02 min
 Lab File: VL033794.D
 Acq: 24 May 2019 4:42

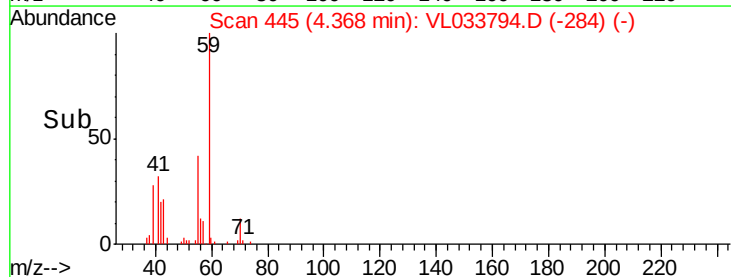
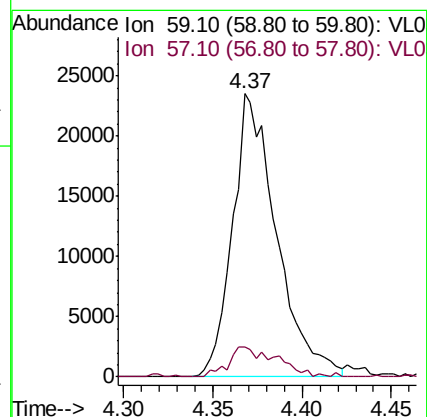
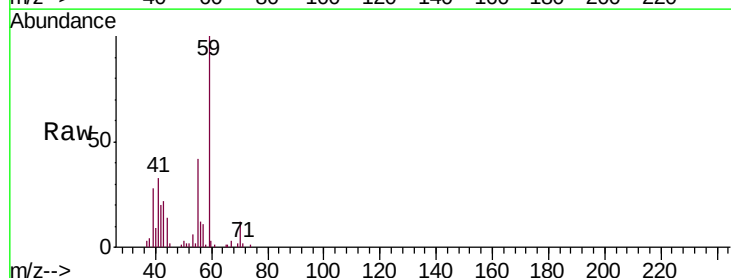
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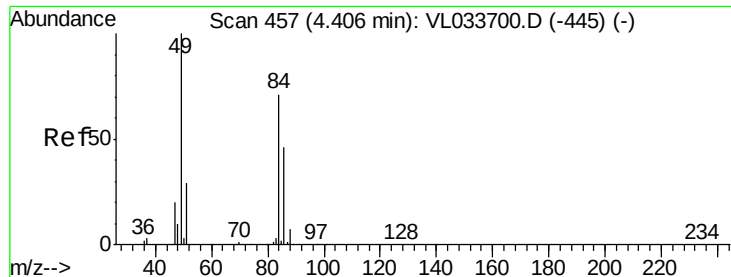
Tgt Ion: 39 Resp: 176634
 Ion Ratio Lower Upper
 39 100
 54 14.3 69.0 103.6#



#17
 tert-Butyl alcohol
 Concen: 0.359 ppbv
 RT: 4.37 min Scan# 445
 Delta R.T. 0.02 min
 Lab File: VL033794.D
 Acq: 24 May 2019 4:42

Tgt Ion: 59 Resp: 40309
 Ion Ratio Lower Upper
 59 100
 57 11.8 8.4 12.6

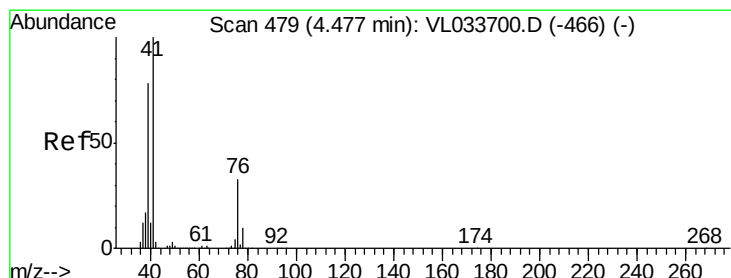
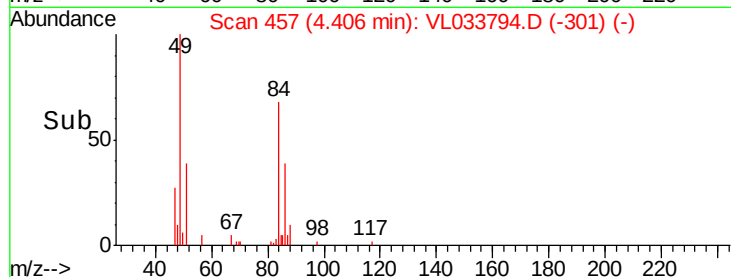
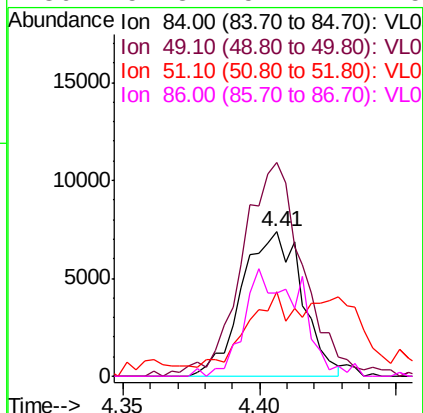
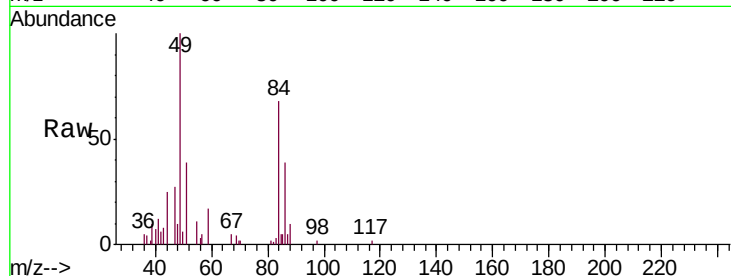




#20
Methylene Chloride
Concen: 0.212 ppbv
RT: 4.41 min Scan# 457
Delta R.T. 0.00 min
Lab File: VL033794.D
Acq: 24 May 2019 4:42

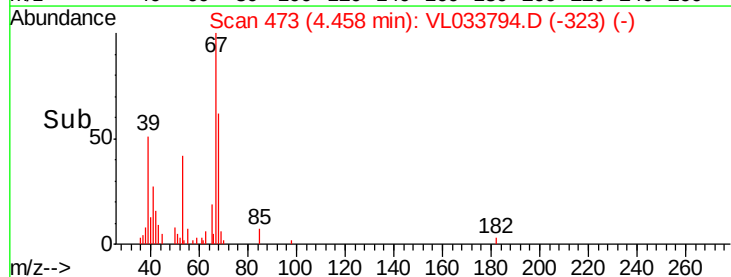
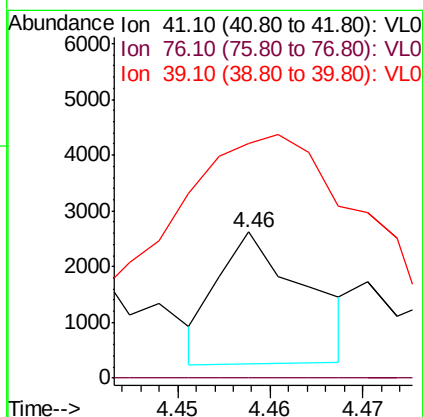
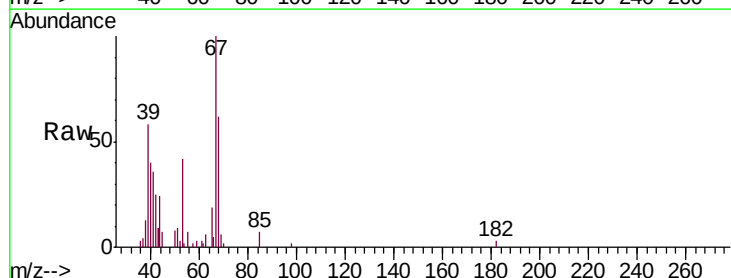
Instrument :
MSVOA_L
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BPS1-SG-3006-25DL

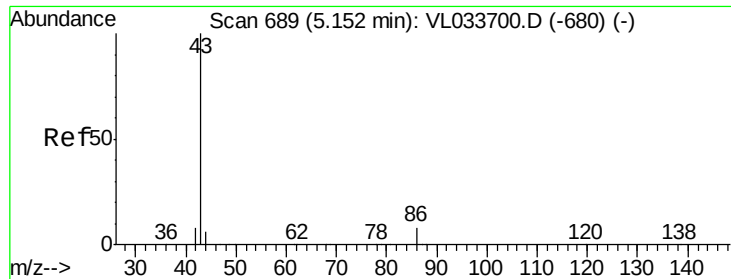
Tgt Ion:	84	Resp:	11334
Ion	Ratio	Lower	Upper
84	100		
49	149.3	112.8	169.2
51	51.3	33.4	50.0#
86	57.3	51.7	77.5



#21
Allyl Chloride
Concen: 0.018 ppbv
RT: 4.46 min Scan# 473
Delta R.T. -0.02 min
Lab File: VL033794.D
Acq: 24 May 2019 4:42

Tgt Ion:	41	Resp:	1561
Ion	Ratio	Lower	Upper
41	100		
76	0.0	25.9	38.9#
39	435.6	64.6	97.0#





#23

Vinyl Acetate

Concen: 0.040 ppbv

RT: 5.14 min Scan# 685

Delta R.T. -0.01 min

Lab File: VL033794.D

Acq: 24 May 2019 4:42

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3006-25DL

Tgt Ion: 43 Resp: 7313

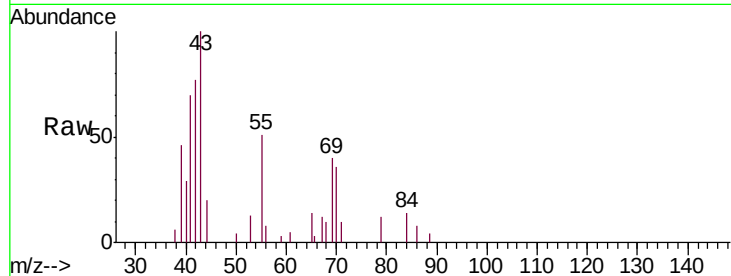
Ion Ratio Lower Upper

43 100

86 8.3 6.0 9.0

42 69.7 7.5 11.3#

44 0.0 4.4 6.6#

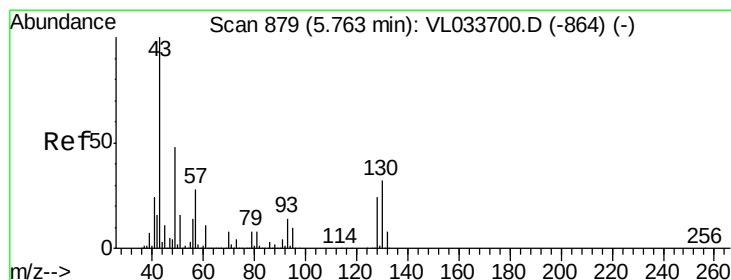
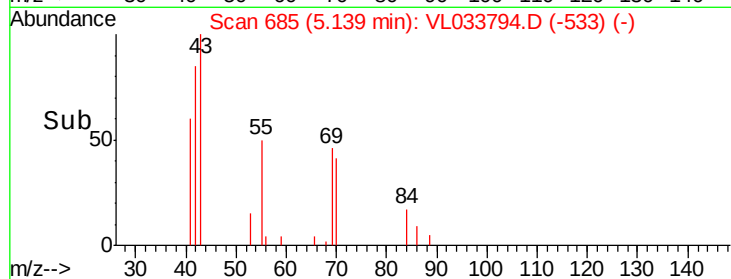
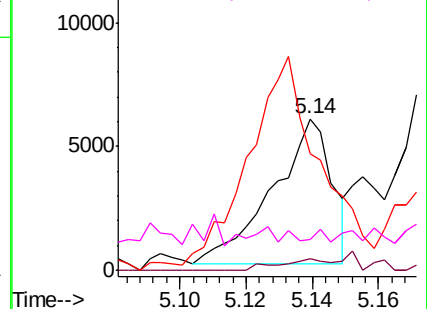


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.124 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.01 min

Lab File: VL033794.D

Acq: 24 May 2019 4:42

Tgt Ion: 43 Resp: 30217

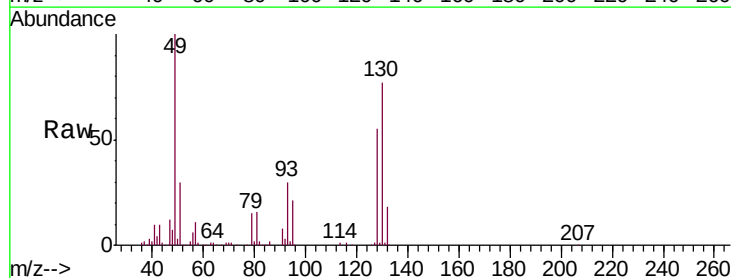
Ion Ratio Lower Upper

43 100

45 8.0 7.9 11.9

61 3.8 7.7 11.5#

70 5.1 5.8 8.6#

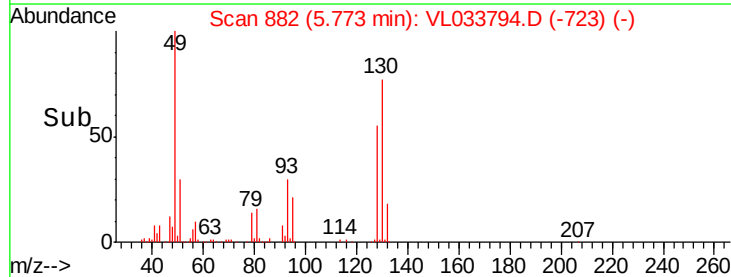
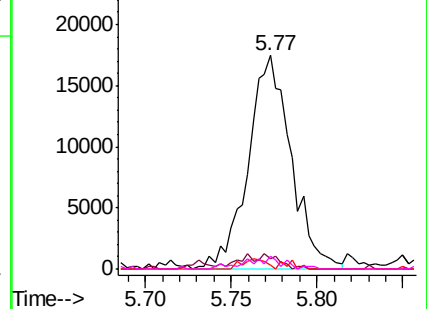


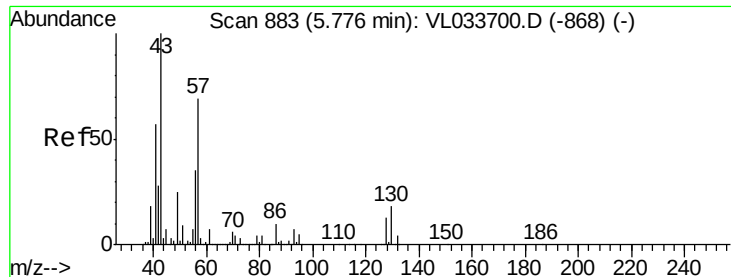
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

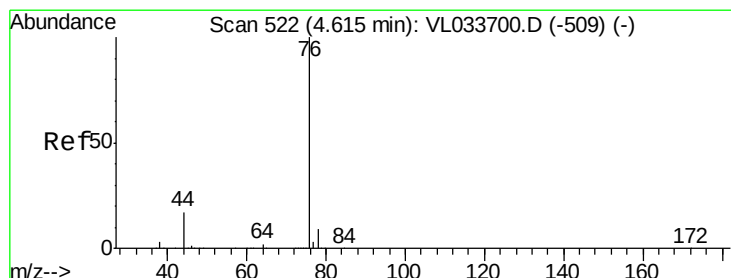
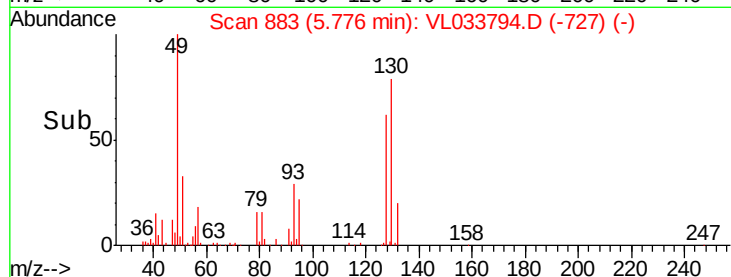
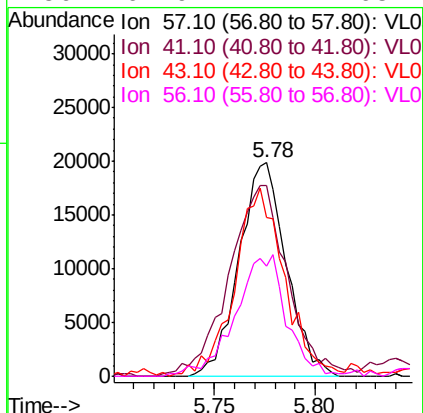
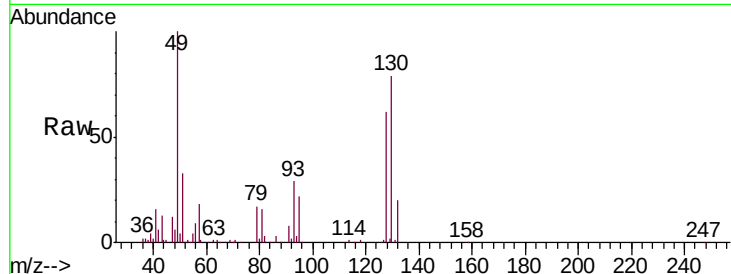




#26
Hexane
Concen: 0.311 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.00 min
Lab File: VL033794.D
Acq: 24 May 2019 4:42

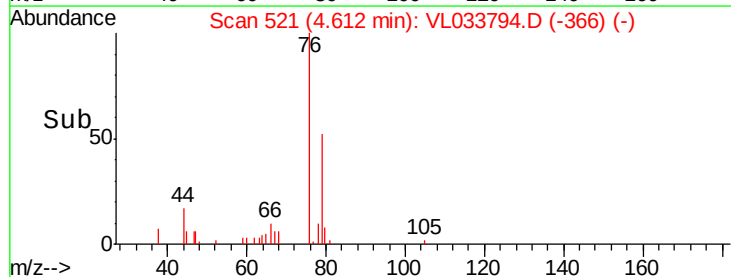
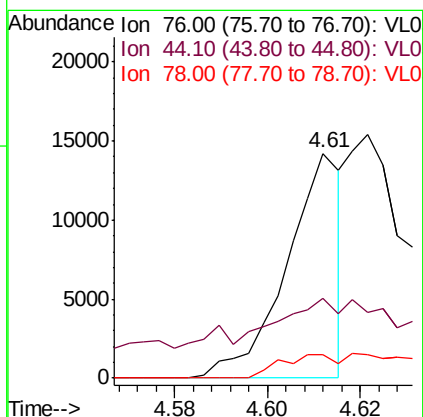
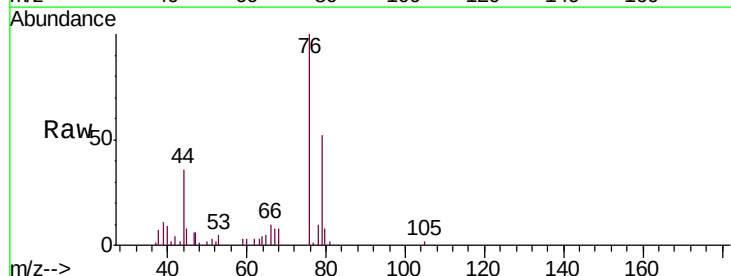
Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3006-25DL

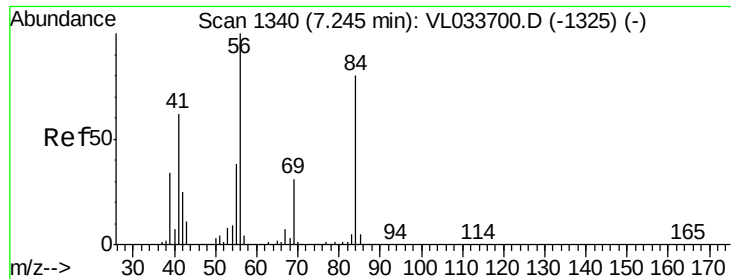
Tgt Ion: 57 Resp: 32665
Ion Ratio Lower Upper
57 100
41 109.7 69.8 104.6#
43 96.4 181.8 272.6#
56 61.9 42.1 63.1



#27
Carbon Disulfide
Concen: 0.081 ppbv
RT: 4.61 min Scan# 521
Delta R.T. -0.00 min
Lab File: VL033794.D
Acq: 24 May 2019 4:42

Tgt Ion: 76 Resp: 11610
Ion Ratio Lower Upper
76 100
44 86.4 13.8 20.8#
78 0.0 7.4 11.0#

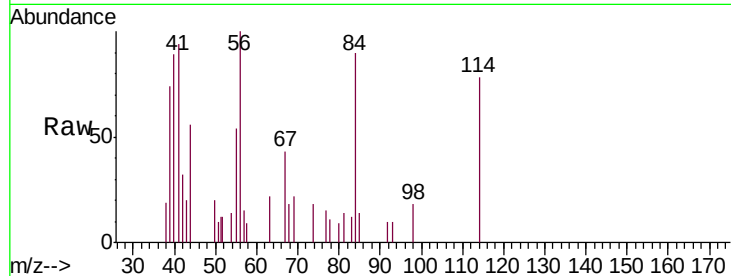




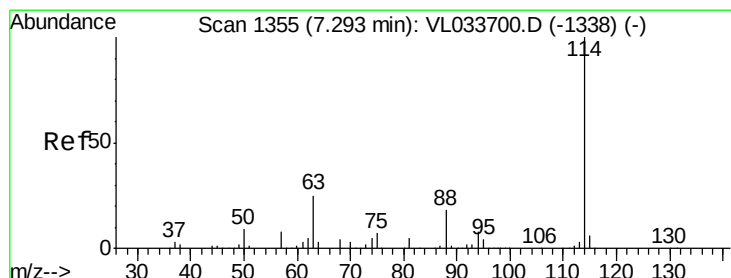
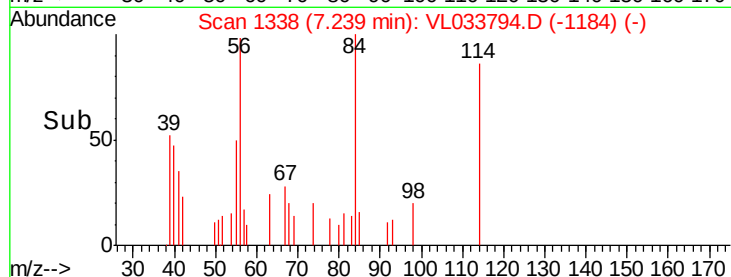
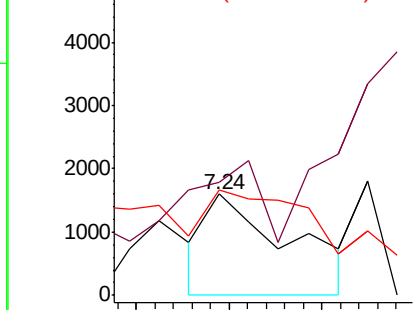
#30
Cyclohexane
Concen: 0.011 ppbv
RT: 7.24 min Scan# 1338
Delta R.T. -0.01 min
Lab File: VL033794.D
Acq: 24 May 2019 4:42

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3006-25DL

Tgt Ion: 84 Resp: 1005
Ion Ratio Lower Upper
84 100
56 0.0 107.7 161.5#
41 366.0 66.0 99.0#

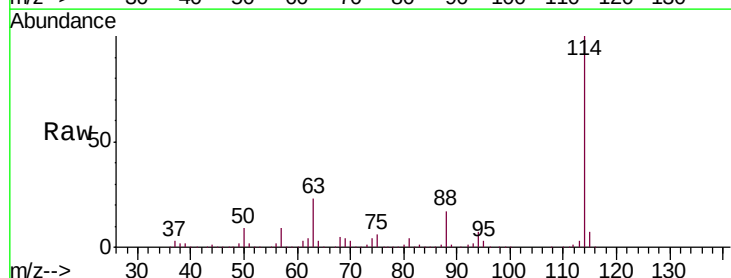


Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

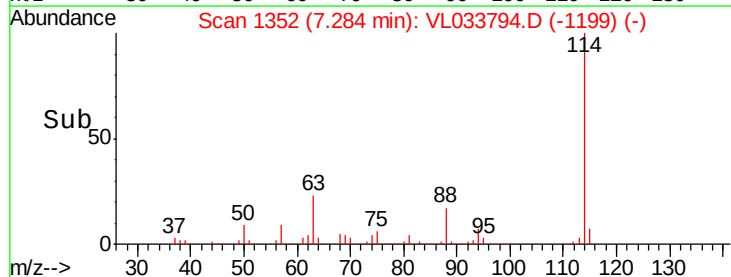
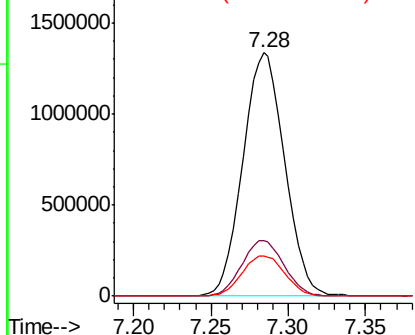


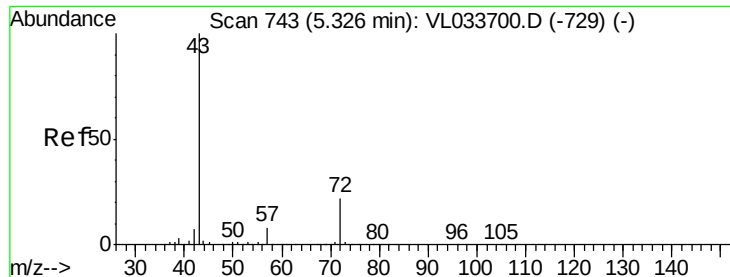
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.28 min Scan# 1352
Delta R.T. -0.01 min
Lab File: VL033794.D
Acq: 24 May 2019 4:42

Tgt Ion: 114 Resp: 2509692
Ion Ratio Lower Upper
114 100
63 23.3 20.9 31.3
88 17.0 14.3 21.5



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

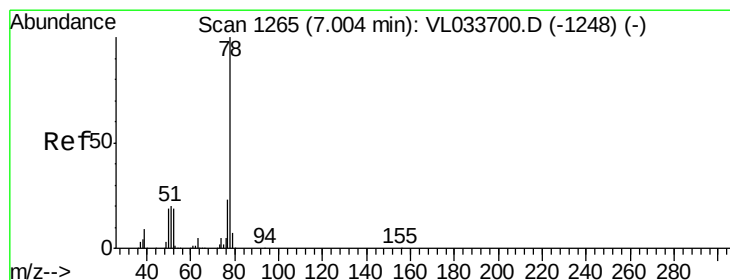
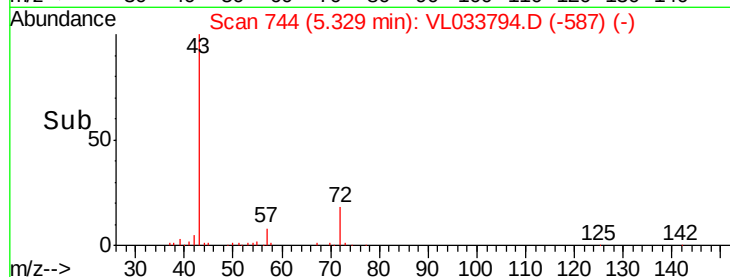
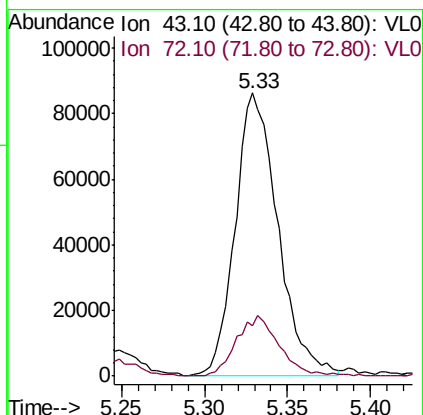
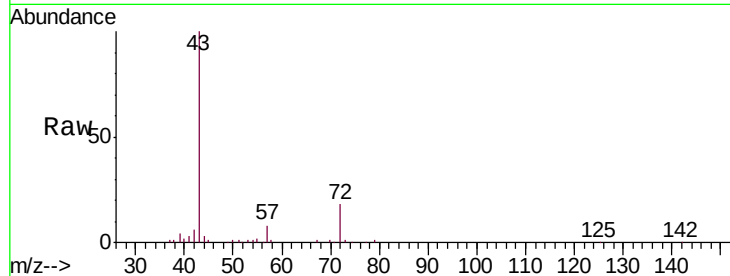




#34
 2-Butanone
 Concen: 0.988 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. 0.00 min
 Lab File: VL033794.D
 Acq: 24 May 2019 4:42

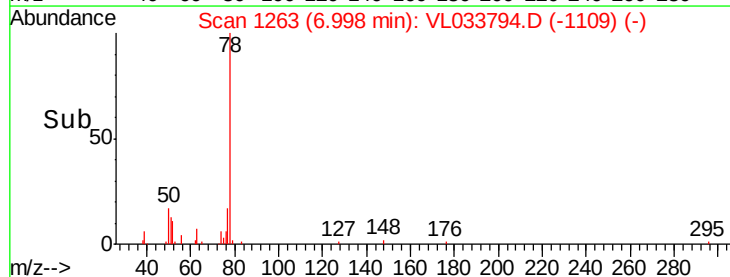
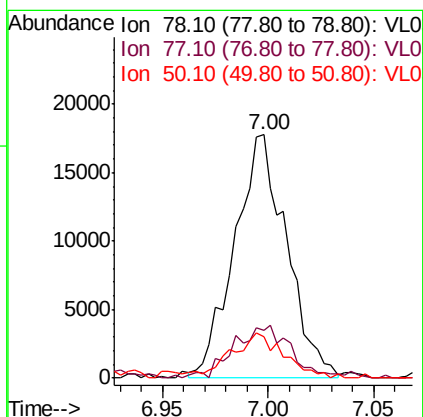
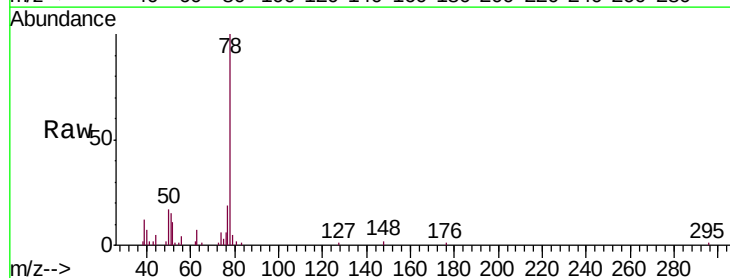
Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3006-25DL

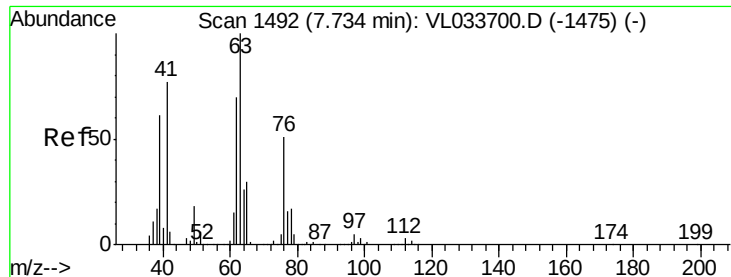
Tgt Ion: 43 Resp: 153639
 Ion Ratio Lower Upper
 43 100
 72 21.8 17.8 26.6



#36
 Benzene
 Concen: 0.133 ppbv
 RT: 7.00 min Scan# 1263
 Delta R.T. -0.01 min
 Lab File: VL033794.D
 Acq: 24 May 2019 4:42

Tgt Ion: 78 Resp: 30449
 Ion Ratio Lower Upper
 78 100
 77 18.3 18.4 27.6#
 50 15.5 15.5 23.3#





#39

1,2-Dichloropropane

Concen: 6.830 ppbv

RT: 7.28 min Scan# 1352

Delta R.T. -0.45 min

Lab File: VL033794.D

Acq: 24 May 2019 4:42

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3006-25DL

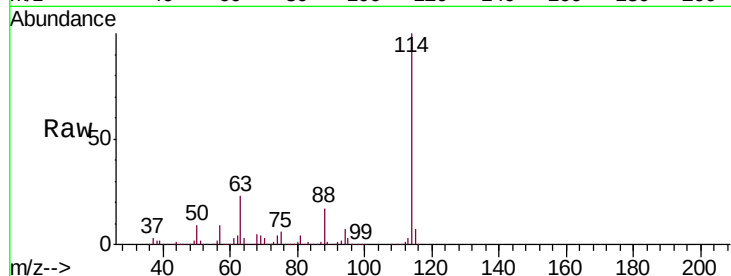
Tgt Ion: 63 Resp: 581307

Ion Ratio Lower Upper

63 100

41 0.0 61.5 92.3#

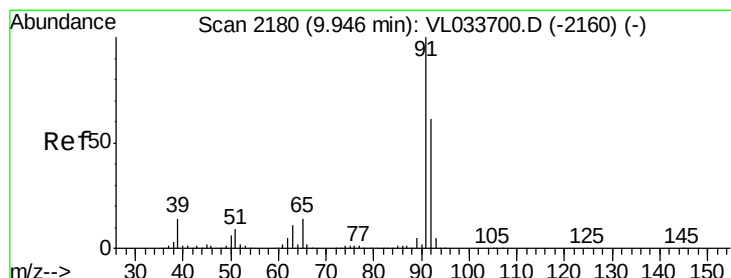
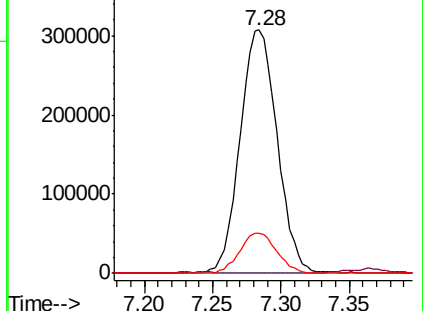
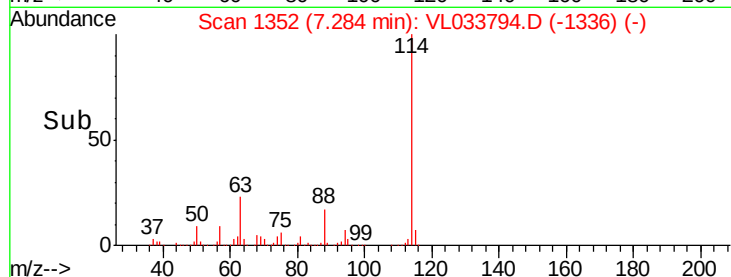
62 16.5 56.2 84.4#



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: 0.851 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033794.D

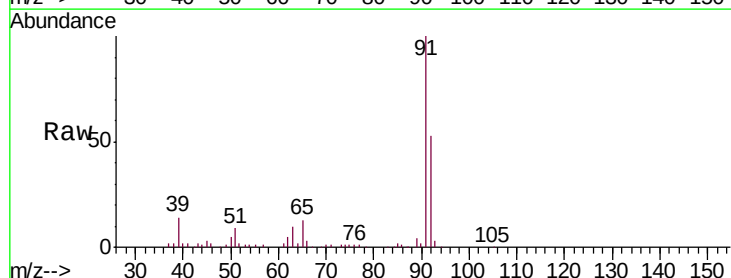
Acq: 24 May 2019 4:42

Tgt Ion: 91 Resp: 209439

Ion Ratio Lower Upper

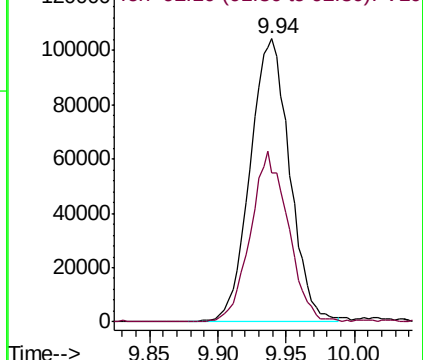
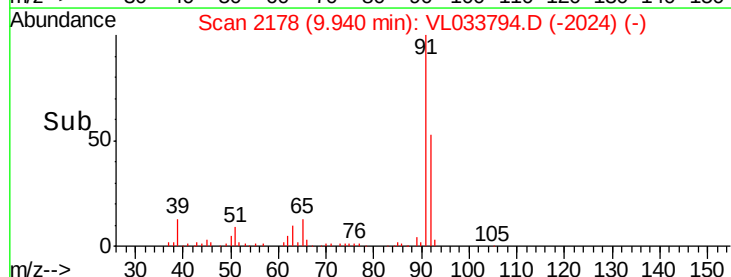
91 100

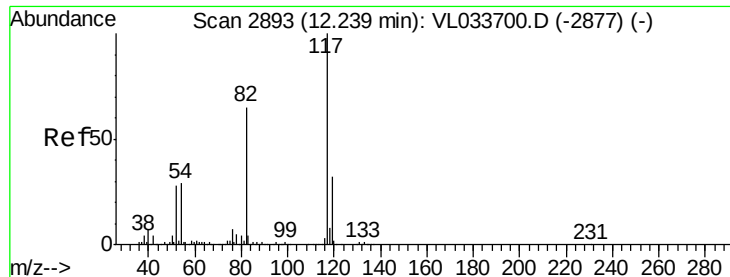
92 58.3 47.6 71.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

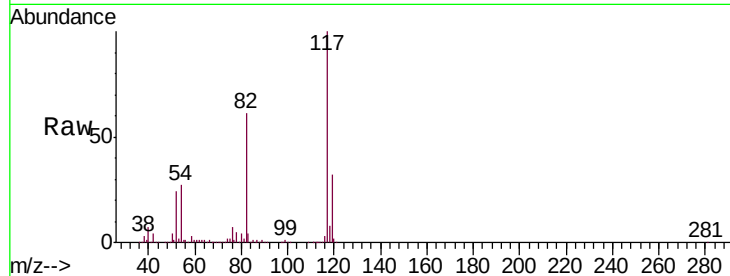




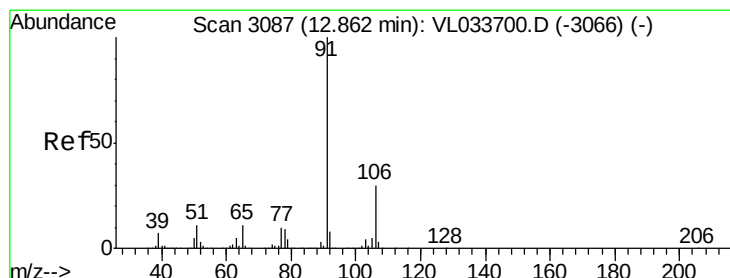
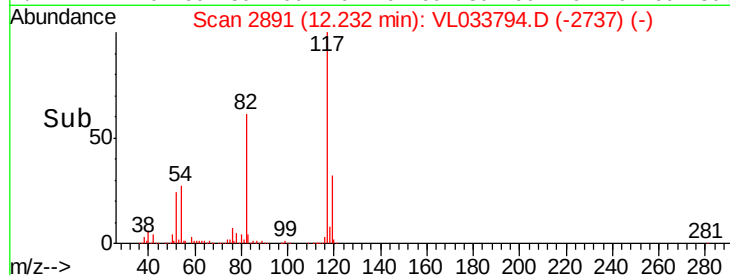
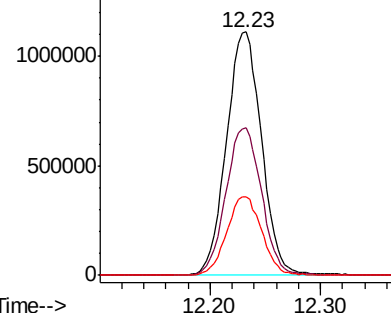
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL033794.D
Acq: 24 May 2019 4:42

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3006-25DL

Tgt Ion: 117 Resp: 2454630
Ion Ratio Lower Upper
117 100
82 62.1 49.4 74.0
119 32.2 24.9 37.3

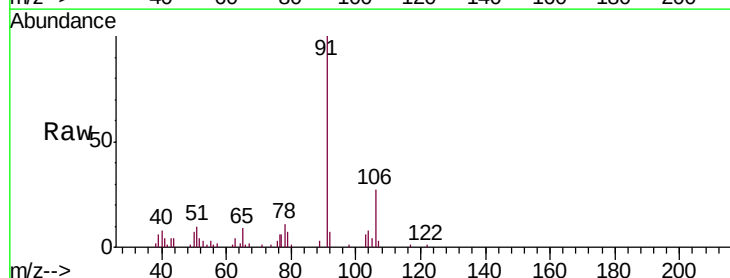


Abundance Ion 117.10 (116.80 to 117.80): V
1500000 Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

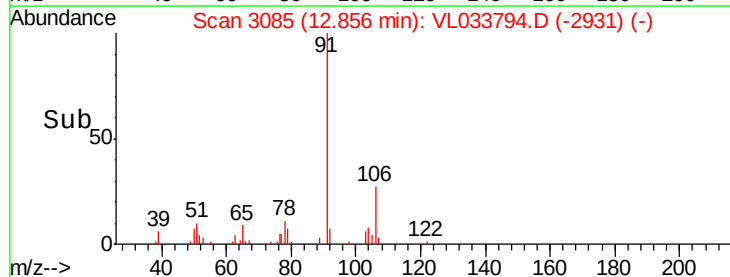
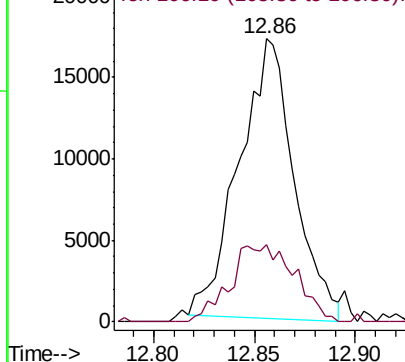


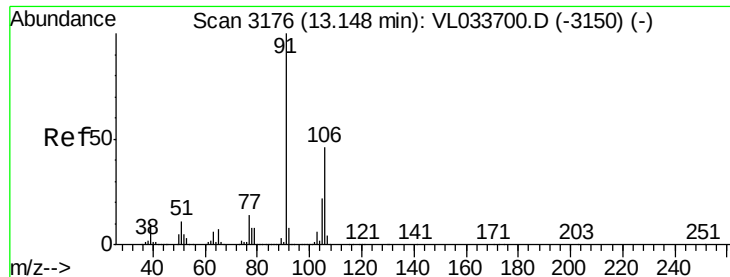
#58
Ethyl Benzene
Concen: 0.101 ppbv
RT: 12.86 min Scan# 3085
Delta R.T. -0.01 min
Lab File: VL033794.D
Acq: 24 May 2019 4:42

Tgt Ion: 91 Resp: 32791
Ion Ratio Lower Upper
91 100
106 28.0 23.9 35.9



Abundance Ion 91.10 (90.80 to 91.80): VL0
20000 Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 0.096 ppbv

RT: 13.14 min Scan# 3174

Delta R.T. -0.01 min

Lab File: VL033794.D

Acq: 24 May 2019 4:42

Instrument :

MSVOA_L

ClientSampleId :

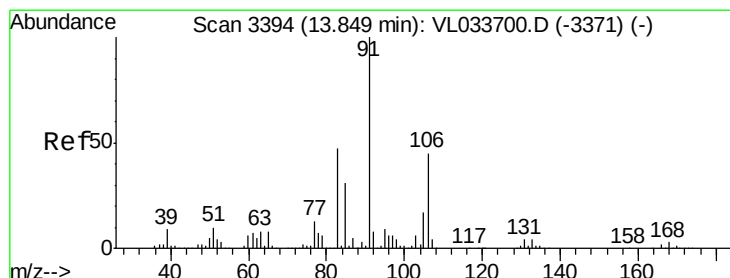
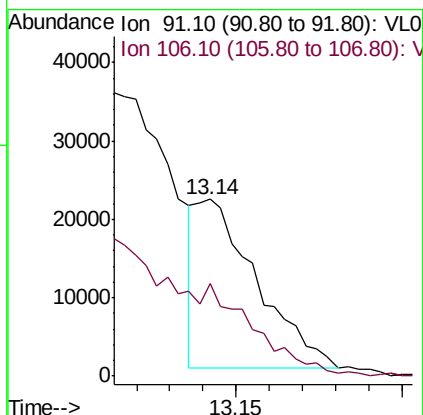
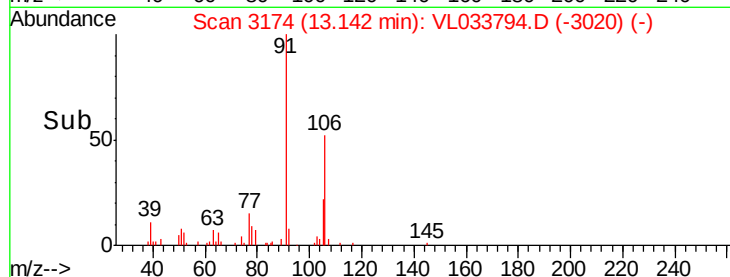
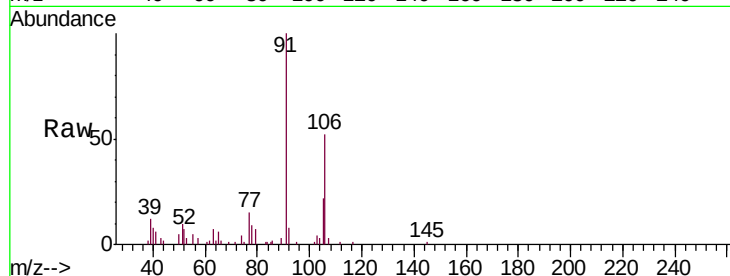
BPS1-SG-3006-25DL

Tgt Ion: 91 Resp: 27142

Ion Ratio Lower Upper

91 100

106 0.0 35.8 53.6#



#60

o-Xylene

Concen: 0.156 ppbv

RT: 13.84 min Scan# 3390

Delta R.T. -0.01 min

Lab File: VL033794.D

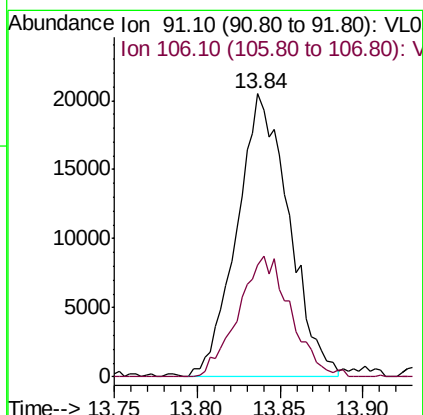
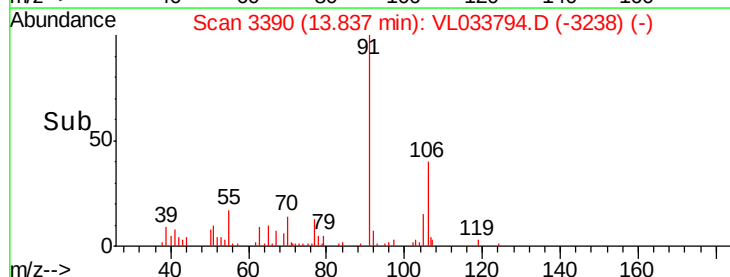
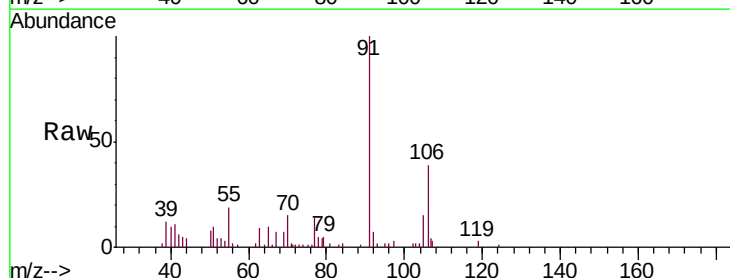
Acq: 24 May 2019 4:42

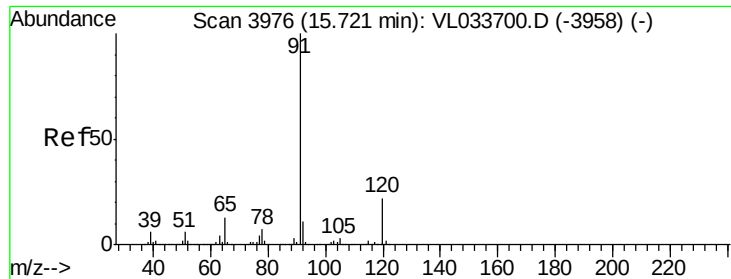
Tgt Ion: 91 Resp: 44768

Ion Ratio Lower Upper

91 100

106 42.8 21.6 64.8

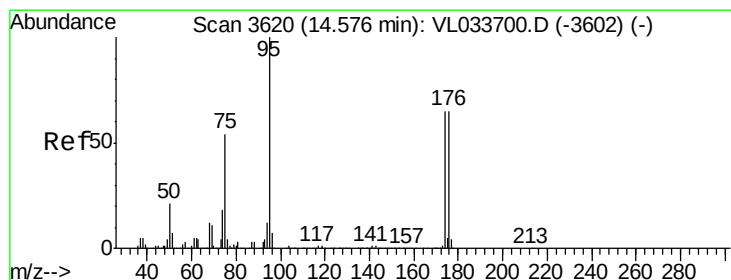
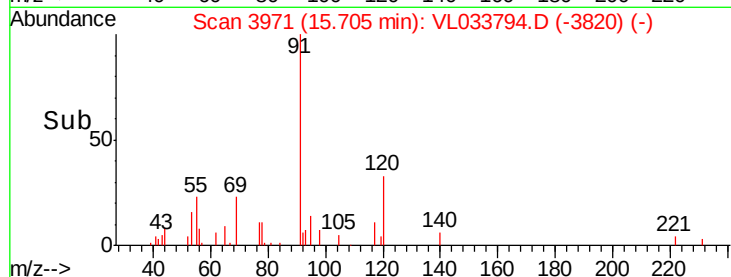
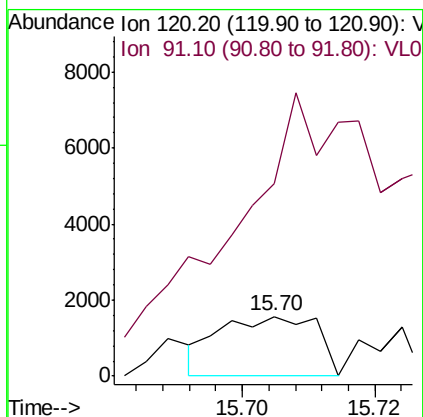
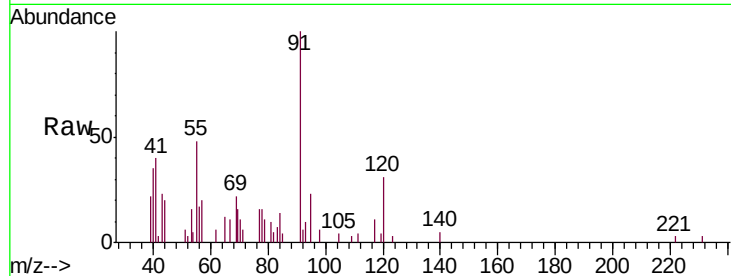




#64
n-propylbenzene
Concen: 0.016 ppbv
RT: 15.70 min Scan# 3971
Delta R.T. -0.02 min
Lab File: VL033794.D
Acq: 24 May 2019 4:42

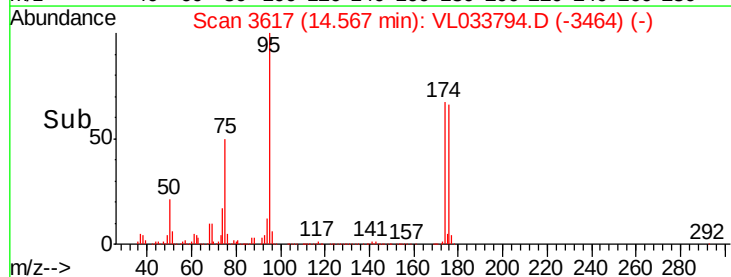
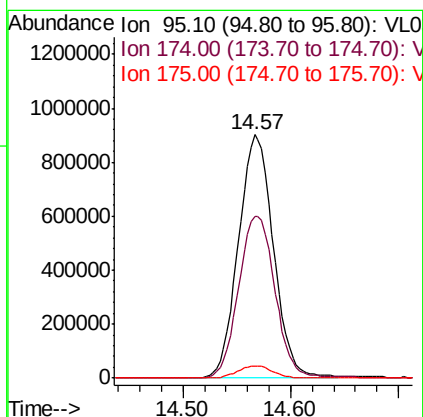
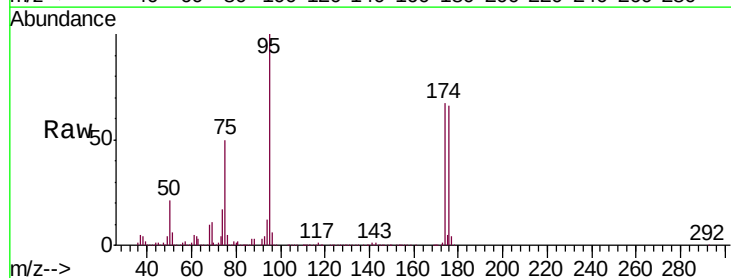
Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3006-25DL

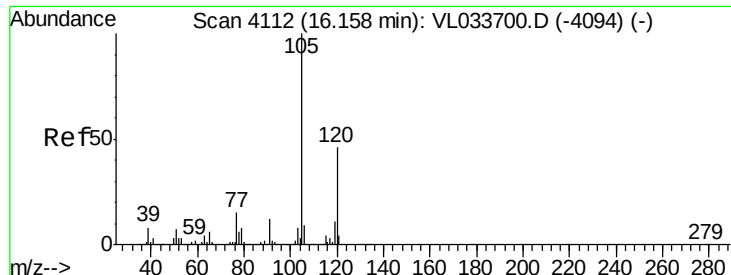
Tgt Ion: 120 Resp: 1589
Ion Ratio Lower Upper
120 100
91 1128.9 379.1 568.7#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.208 ppbv
RT: 14.57 min Scan# 3617
Delta R.T. -0.01 min
Lab File: VL033794.D
Acq: 24 May 2019 4:42

Tgt Ion: 95 Resp: 2031241
Ion Ratio Lower Upper
95 100
174 70.2 53.9 80.9
175 5.1 3.8 5.8

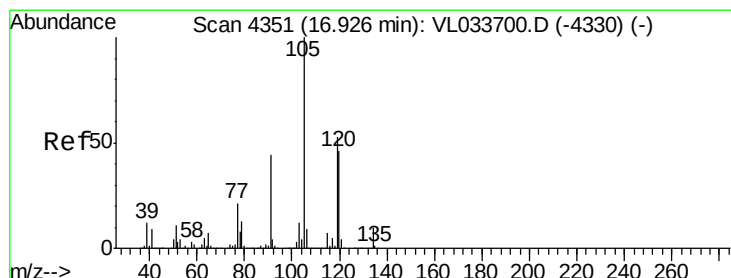
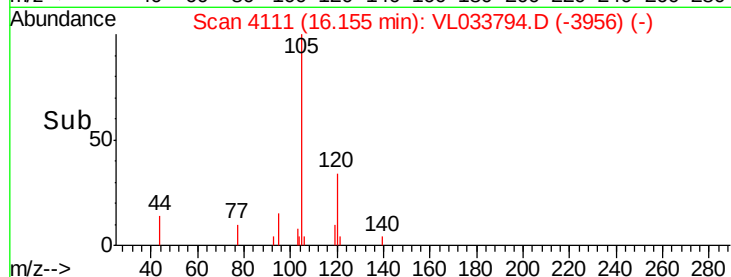
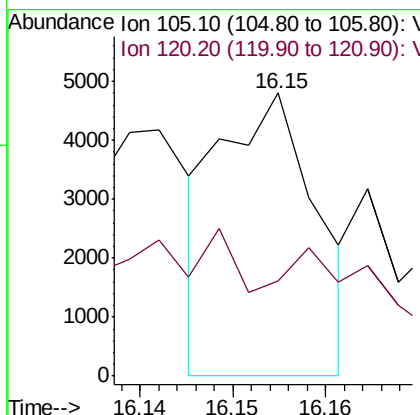
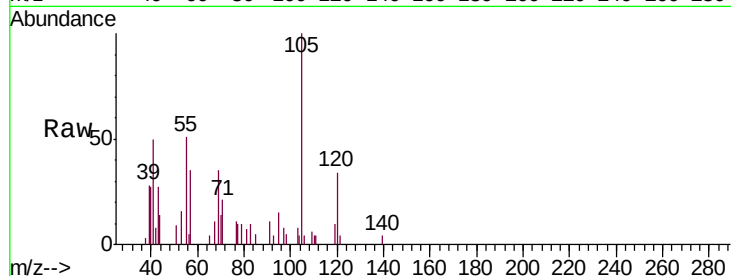




#73
 1,3,5-Trimethylbenzene
 Concen: 0.011 ppbv
 RT: 16.15 min Scan# 4111
 Delta R.T. -0.00 min
 Lab File: VL033794.D
 Acq: 24 May 2019 4:42

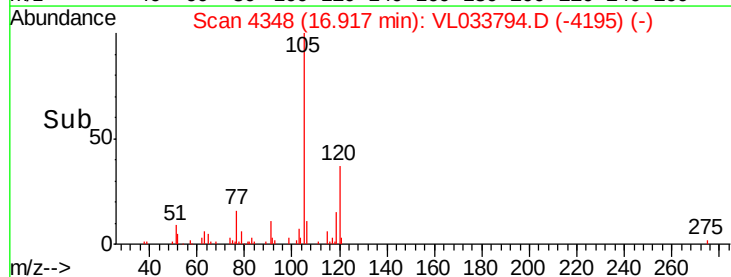
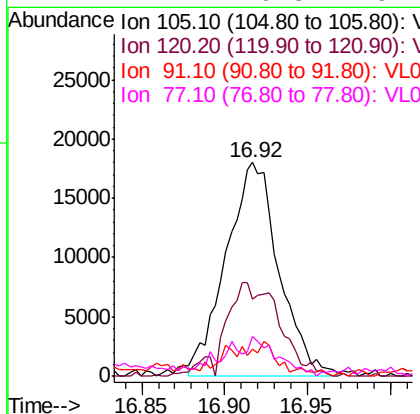
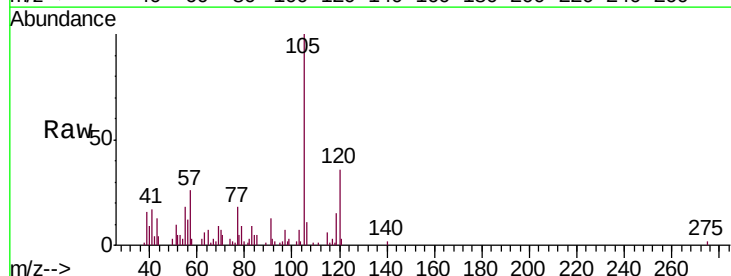
Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3006-25DL

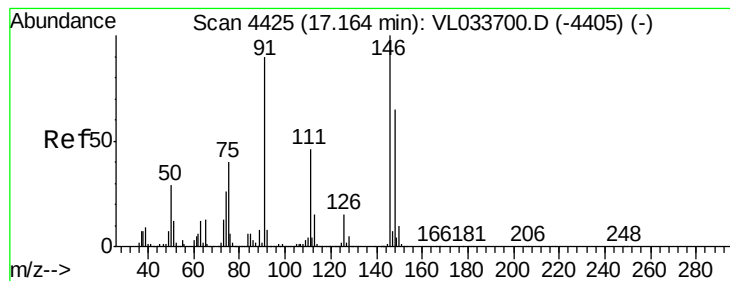
Tgt Ion:105 Resp: 3470
 Ion Ratio Lower Upper
 105 100
 120 0.9 37.0 55.4#



#74
 1,2,4-Trimethylbenzene
 Concen: 0.115 ppbv
 RT: 16.92 min Scan# 4348
 Delta R.T. -0.01 min
 Lab File: VL033794.D
 Acq: 24 May 2019 4:42

Tgt Ion:105 Resp: 39890
 Ion Ratio Lower Upper
 105 100
 120 36.7 36.8 55.2#
 91 11.6 35.4 53.0#
 77 17.1 16.8 25.2





#75

1,3-Dichlorobenzene

Concen: 0.011 ppbv

RT: 17.15 min Scan# 4421

Delta R.T. -0.01 min

Lab File: VL033794.D

Acq: 24 May 2019 4:42

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3006-25DL

Tgt Ion:146 Resp: 2281

Ion Ratio Lower Upper

146 100

111 0.0 22.9 68.8#

148 0.0 32.0 96.2#

