

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL050219\
 Data File : VL033635.D
 Acq On : 2 May 2019 19:44
 Operator : SY/AP
 Sample : K2628-05DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-5DL

Quant Time: May 03 02:29:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050119AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 02 06:29:02 2019
 QLast Update : Thu May 02 06:29:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	959796	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2240662	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2324384	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1840026	10.40	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.00%

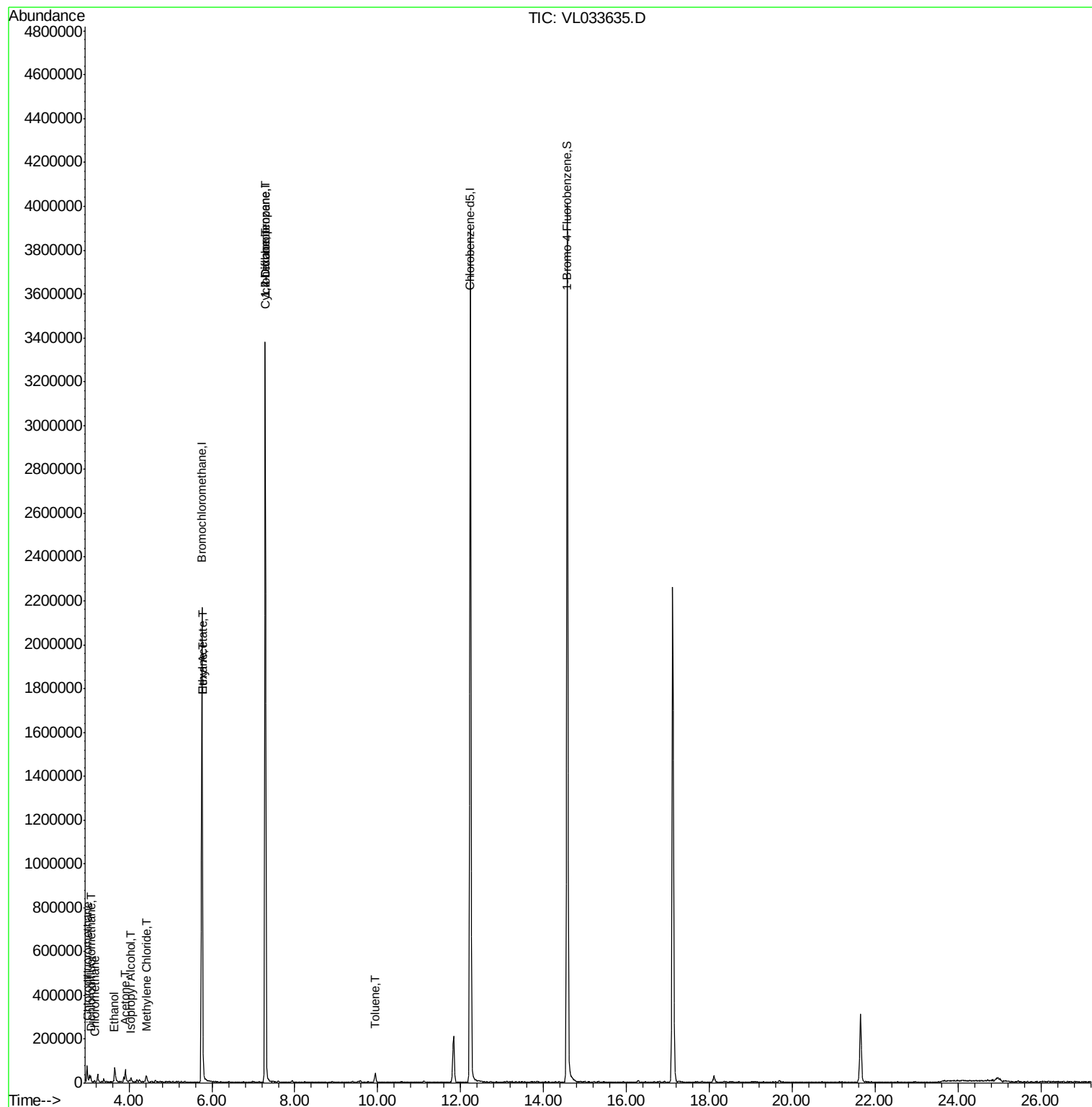
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	15948	0.110	ppbv	98
3) Chlorodifluoromethane	2.99	51	49842	0.434	ppbv #	64
4) Chloromethane	3.17	50	3338	0.053	ppbv #	79
13) Ethanol	3.63	45	637	0.043	ppbv #	38
15) Acetone	3.91	43	56371	0.482	ppbv	95
19) Isopropyl Alcohol	4.04	45	16570	0.207	ppbv #	87
20) Methylene Chloride	4.41	84	4703	0.103	ppbv #	72
25) Ethyl Acetate	5.78	43	4981	0.022	ppbv #	84
26) Hexane	5.78	57	8004	0.086	ppbv #	48
30) Cyclohexane	7.27	84	6271	0.079	ppbv #	1
39) 1,2-Dichloropropane	7.29	63	598578	8.314	ppbv #	25
53) Toluene	9.94	91	13903	0.058	ppbv #	21

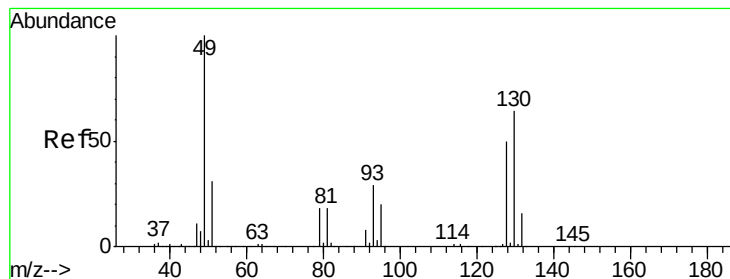
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 03 02:29:47 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL050119AIR.M
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QLast Update : Thu May 02 06:29:02 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: VL033635.D

Acq: 2 May 2019 19:44

Instrument :

MSVOA_L

ClientSampleId :

A-5DL

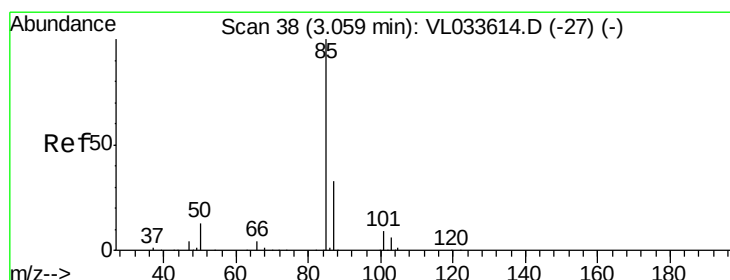
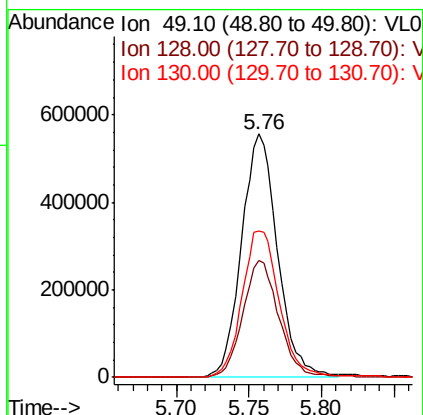
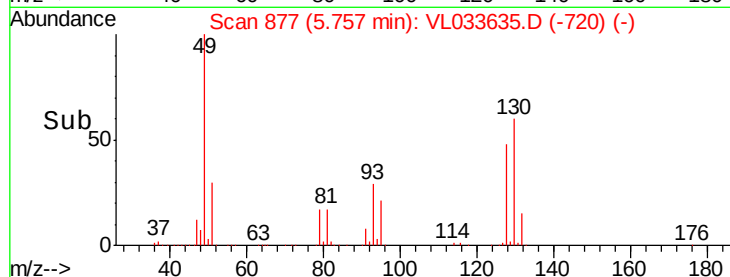
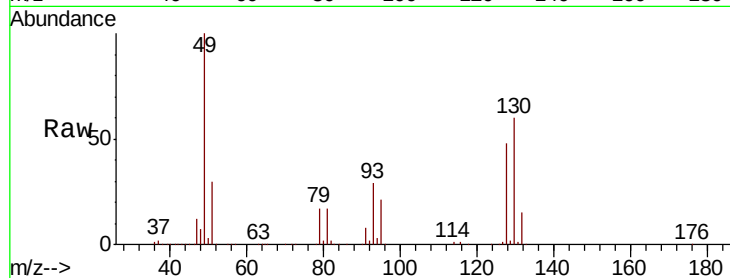
Tgt Ion: 49 Resp: 959796

Ion Ratio Lower Upper

49 100

128 48.3 25.0 75.0

130 63.0 31.9 95.9



#2

Dichlorodifluoromethane

Concen: 0.110 ppbv

RT: 3.08 min Scan# 43

Delta R.T. 0.02 min

Lab File: VL033635.D

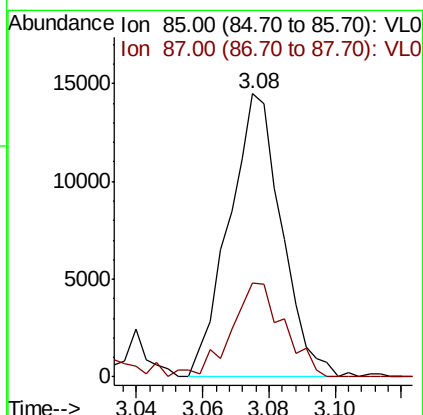
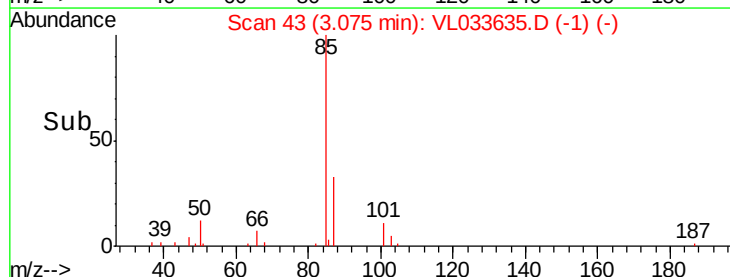
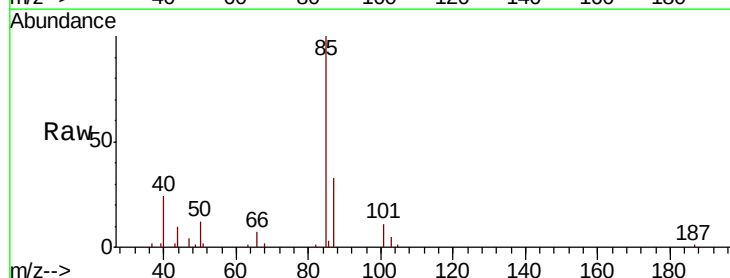
Acq: 2 May 2019 19:44

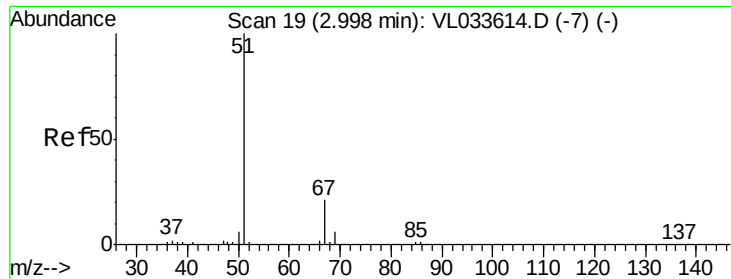
Tgt Ion: 85 Resp: 15948

Ion Ratio Lower Upper

85 100

87 32.2 26.8 40.2





#3

Chlorodifluoromethane

Concen: 0.434 ppbv

RT: 2.99 min Scan# 15

Delta R.T. -0.01 min

Lab File: VL033635.D

Acq: 2 May 2019 19:44

Instrument :

MSVOA_L

ClientSampleId :

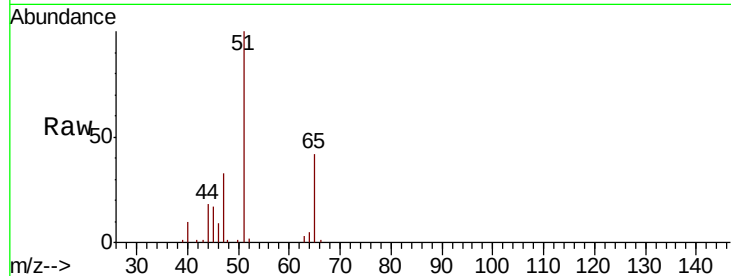
A-5DL

Tgt Ion: 51 Resp: 49842

Ion Ratio Lower Upper

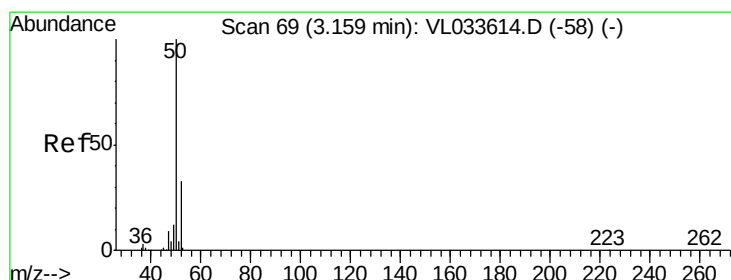
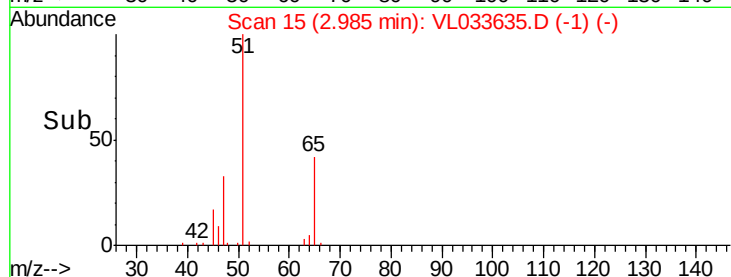
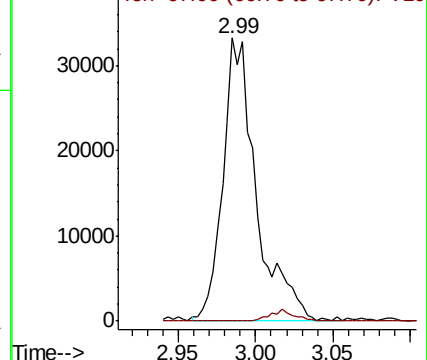
51 100

67 2.9 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: 0.053 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.02 min

Lab File: VL033635.D

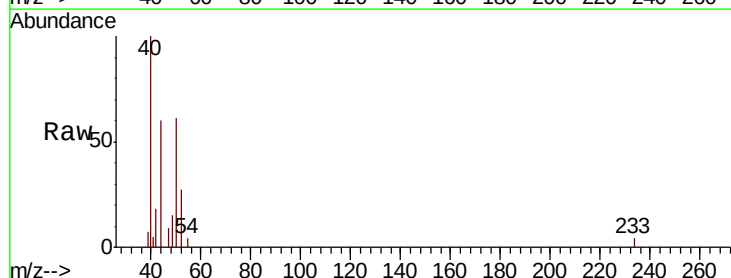
Acq: 2 May 2019 19:44

Tgt Ion: 50 Resp: 3338

Ion Ratio Lower Upper

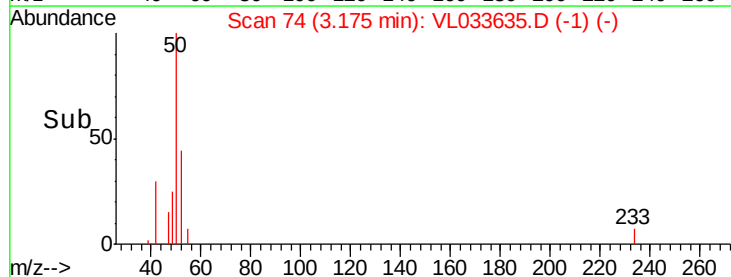
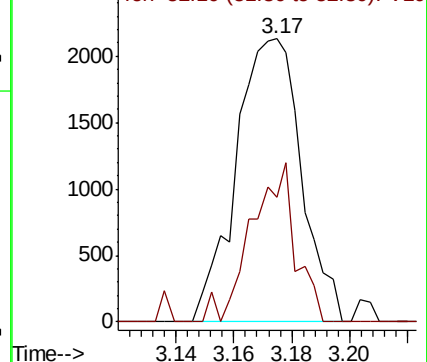
50 100

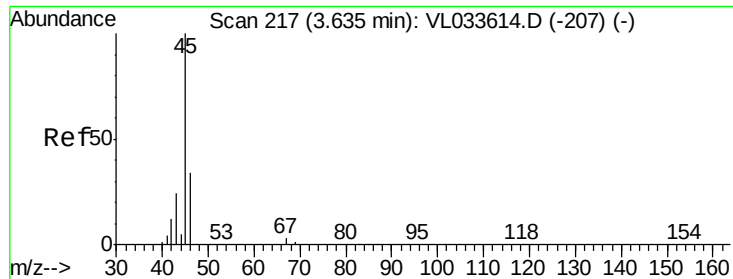
52 44.3 26.0 39.0#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#13

Ethanol

Concen: 0.043 ppbv

RT: 3.63 min Scan# 215

Delta R.T. -0.01 min

Lab File: VL033635.D

Acq: 2 May 2019 19:44

Instrument :

MSVOA_L

ClientSampleId :

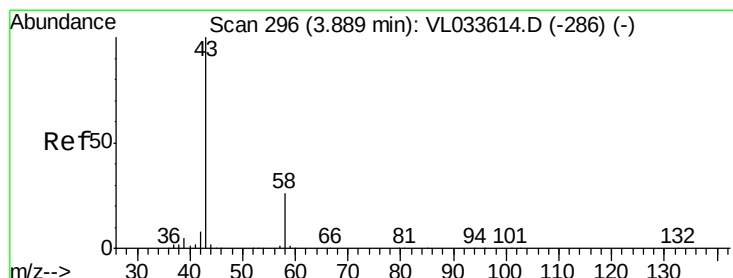
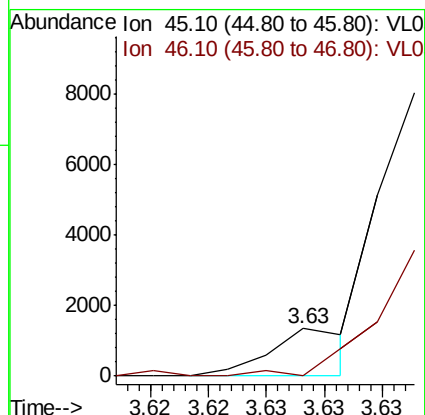
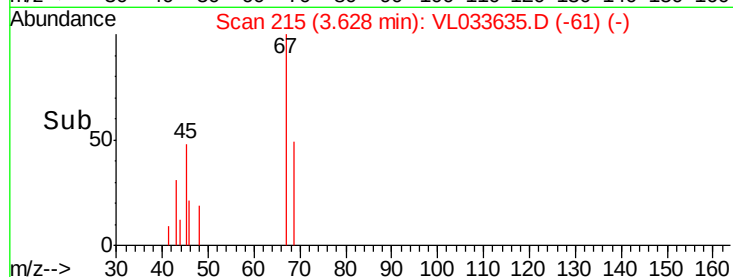
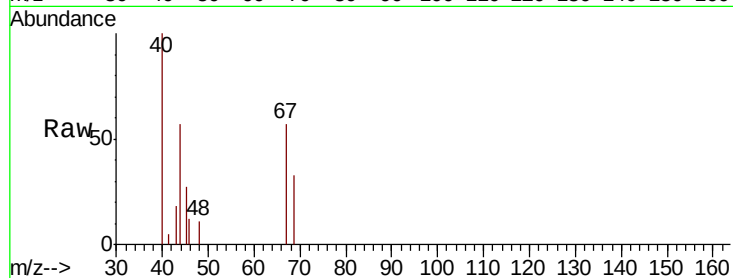
A-5DL

Tgt Ion: 45 Resp: 637

Ion Ratio Lower Upper

45 100

46 0.0 14.6 58.2#



#15

Acetone

Concen: 0.482 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.02 min

Lab File: VL033635.D

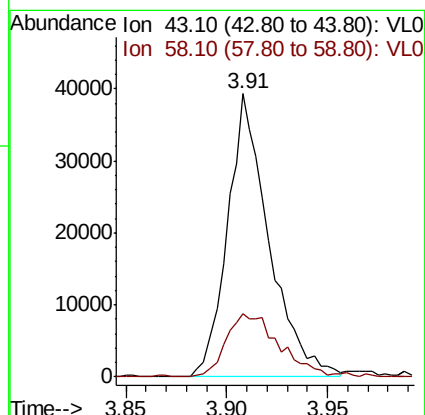
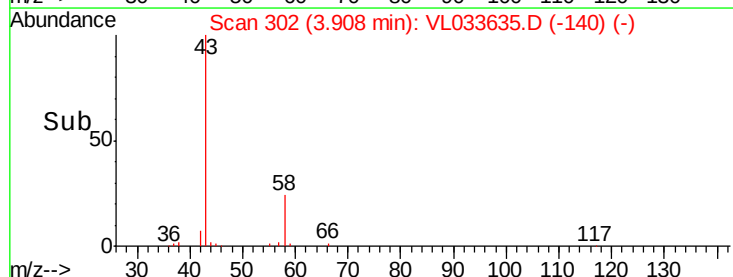
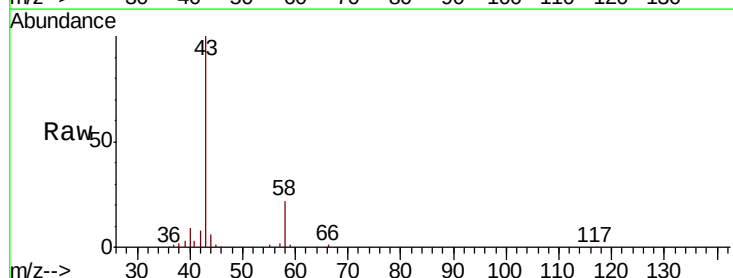
Acq: 2 May 2019 19:44

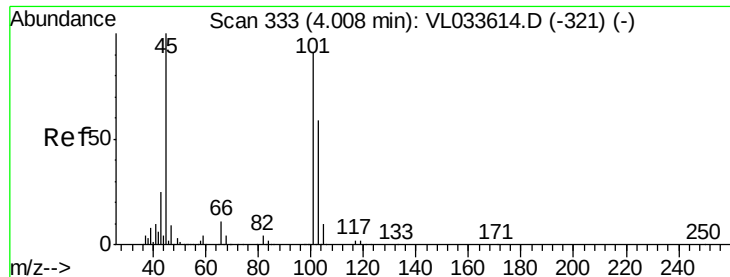
Tgt Ion: 43 Resp: 56371

Ion Ratio Lower Upper

43 100

58 28.9 21.2 31.8





#19

Isopropyl Alcohol

Concen: 0.207 ppbv

RT: 4.04 min Scan# 343

Delta R.T. 0.03 min

Lab File: VL033635.D

Acq: 2 May 2019 19:44

Instrument :

MSVOA_L

ClientSampleId :

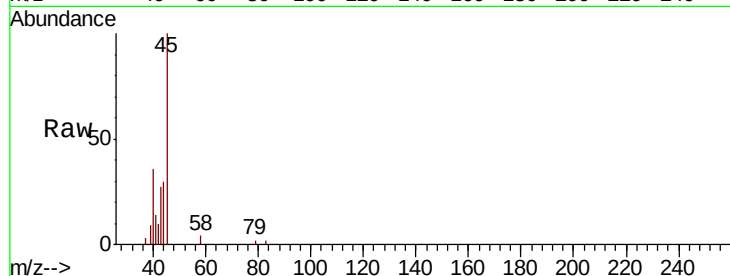
A-5DL

Tgt Ion: 45 Resp: 16570

Ion Ratio Lower Upper

45 100

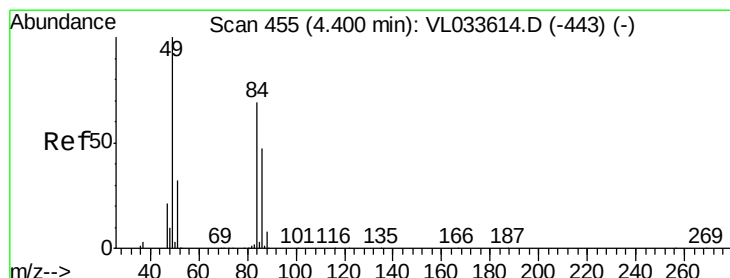
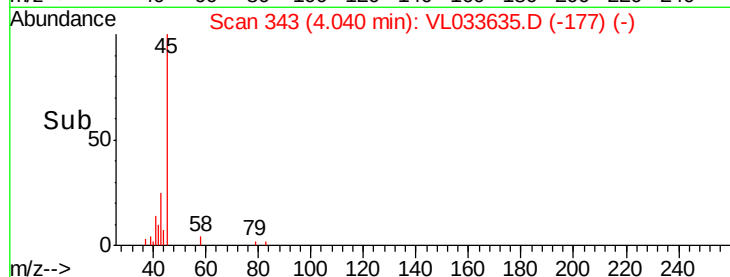
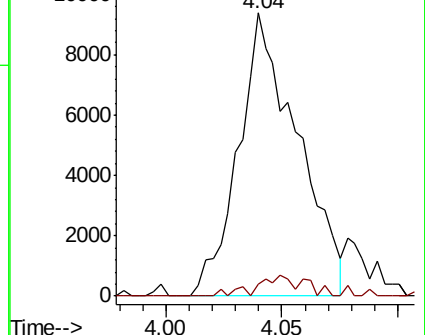
58 6.8 1.8 2.6#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Time-->



#20

Methylene Chloride

Concen: 0.103 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.01 min

Lab File: VL033635.D

Acq: 2 May 2019 19:44

Tgt Ion: 84 Resp: 4703

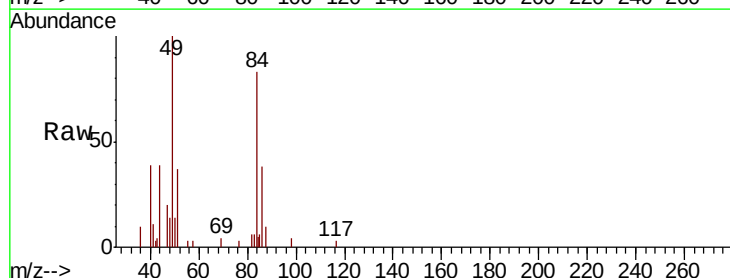
Ion Ratio Lower Upper

84 100

49 103.8 116.2 174.2#

51 42.1 37.0 55.6

86 43.5 54.0 81.0#



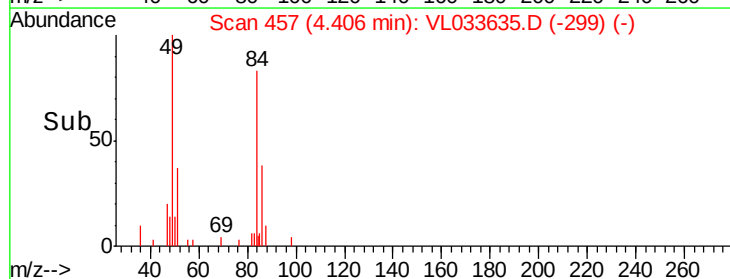
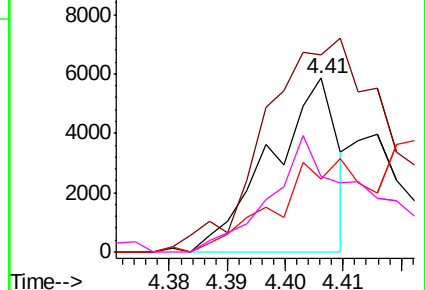
Abundance Ion 84.00 (83.70 to 84.70): VL0

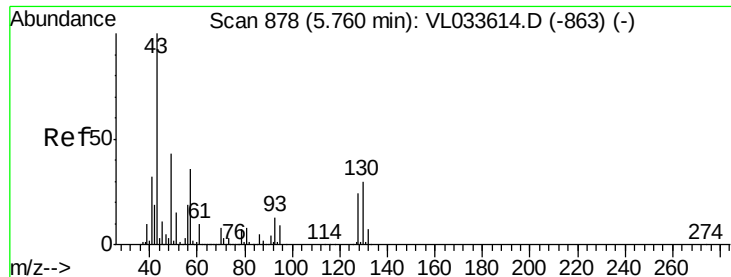
Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

Time-->





#25

Ethyl Acetate

Concen: 0.022 ppbv

RT: 5.78 min Scan# 883

Delta R.T. 0.02 min

Lab File: VL033635.D

Acq: 2 May 2019 19:44

Instrument :

MSVOA_L

ClientSampleId :

A-5DL

Tgt Ion: 43 Resp: 4981

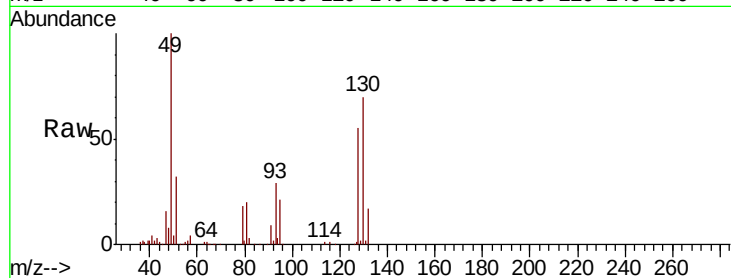
Ion Ratio Lower Upper

43 100

45 17.9 8.1 12.1#

61 3.1 7.5 11.3#

70 4.5 5.8 8.6#

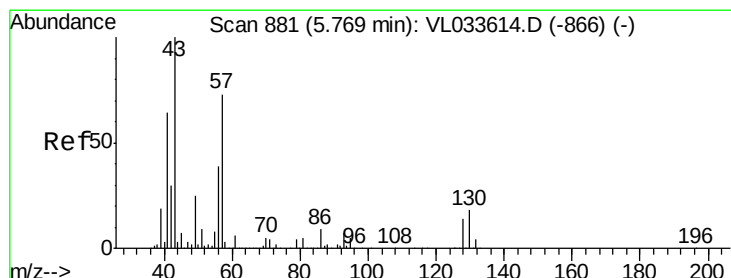
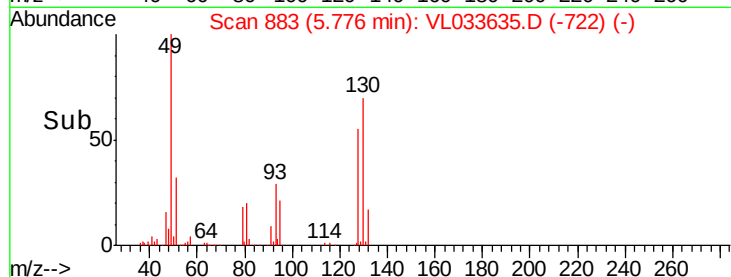
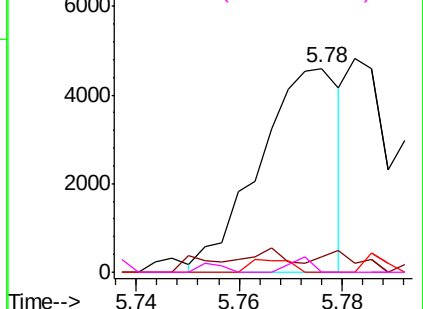


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.086 ppbv

RT: 5.78 min Scan# 883

Delta R.T. 0.01 min

Lab File: VL033635.D

Acq: 2 May 2019 19:44

Tgt Ion: 57 Resp: 8004

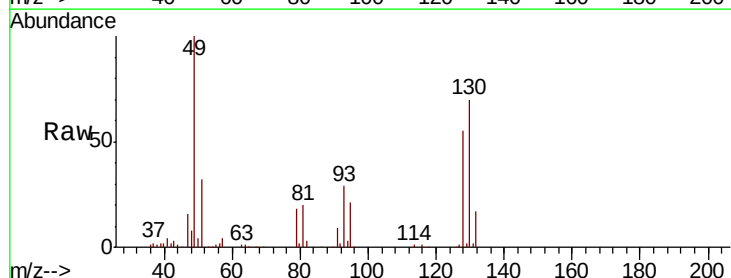
Ion Ratio Lower Upper

57 100

41 110.8 70.6 106.0#

43 111.2 186.0 279.0#

56 57.9 42.7 64.1

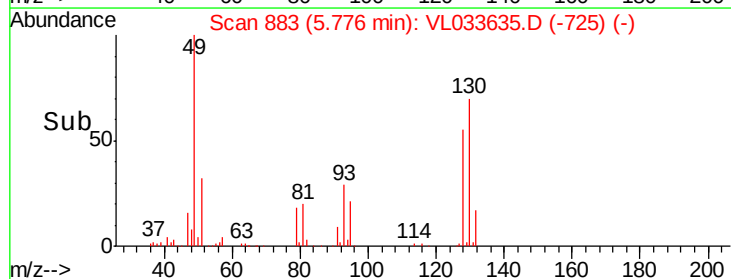
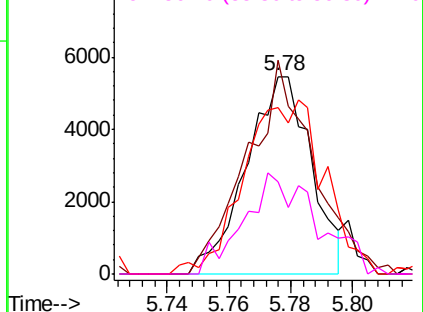


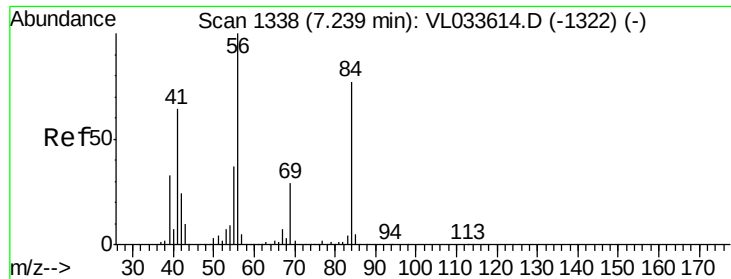
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

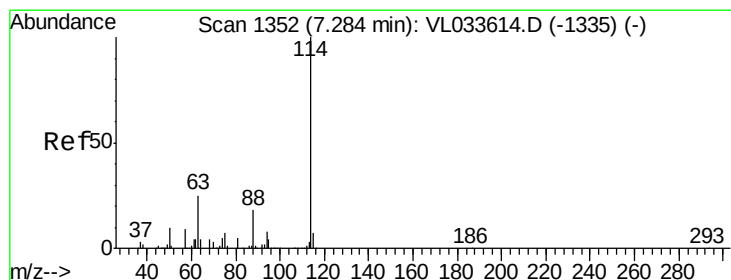
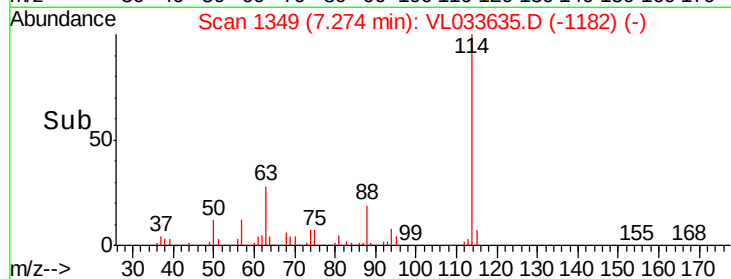
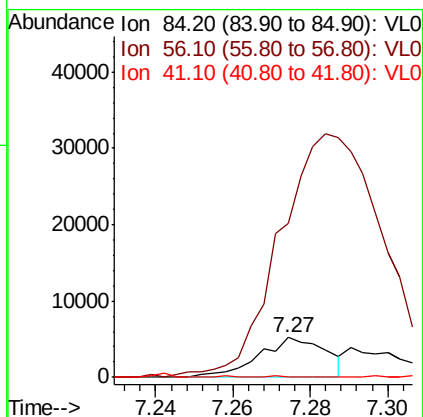
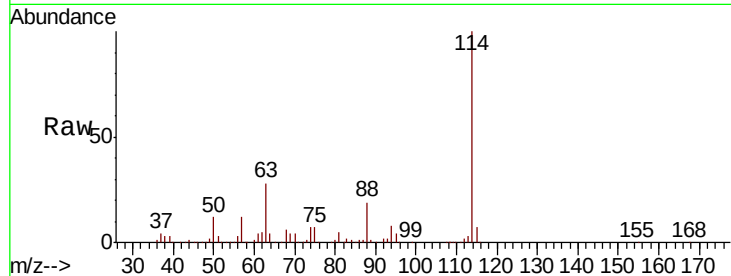




#30
Cyclohexane
Concen: 0.079 ppbv
RT: 7.27 min Scan# 1349
Delta R.T. 0.04 min
Lab File: VL033635.D
Acq: 2 May 2019 19:44

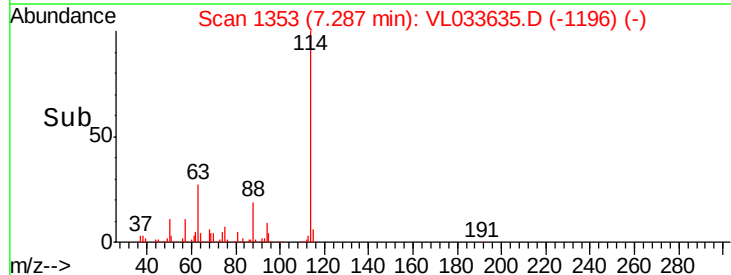
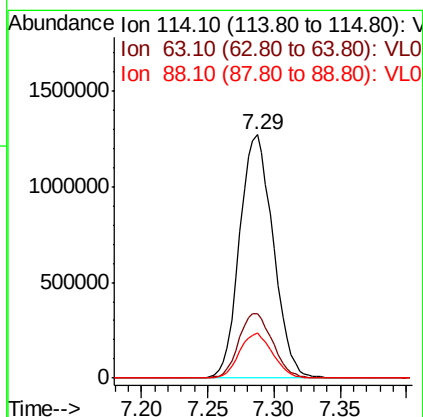
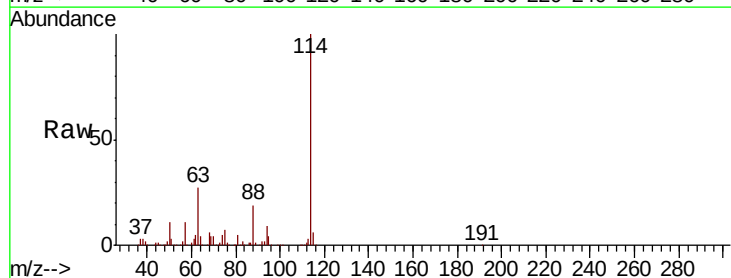
Instrument :
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A-5DL

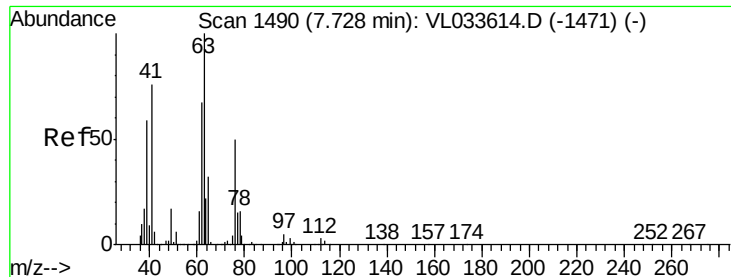
Tgt Ion: 84 Resp: 6271
Ion Ratio Lower Upper
84 100
56 0.0 108.4 162.6#
41 2.4 67.0 100.4#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. 0.00 min
Lab File: VL033635.D
Acq: 2 May 2019 19:44

Tgt Ion: 114 Resp: 2240662
Ion Ratio Lower Upper
114 100
63 26.7 21.1 31.7
88 18.2 14.2 21.4





#39

1,2-Dichloropropane

Concen: 8.314 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.44 min

Lab File: VL033635.D

Acq: 2 May 2019 19:44

Instrument :

MSVOA_L

ClientSampleId :

A-5DL

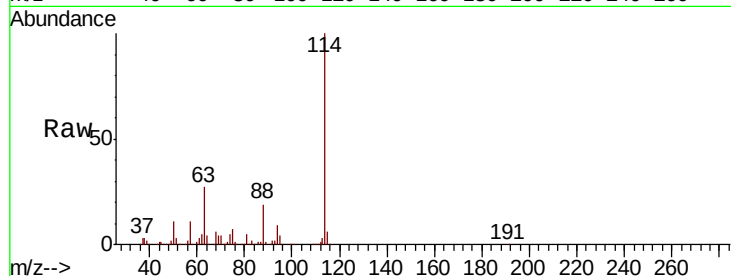
Tgt Ion: 63 Resp: 598578

Ion Ratio Lower Upper

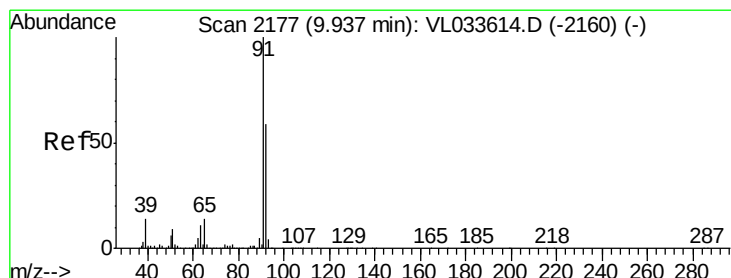
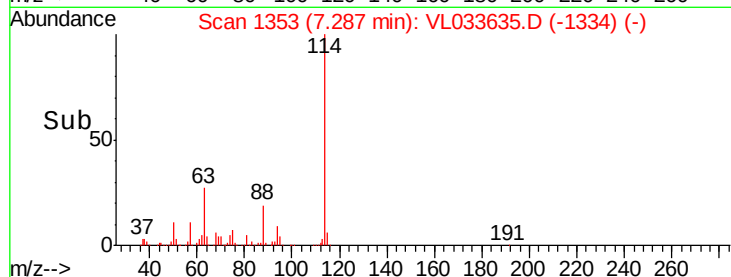
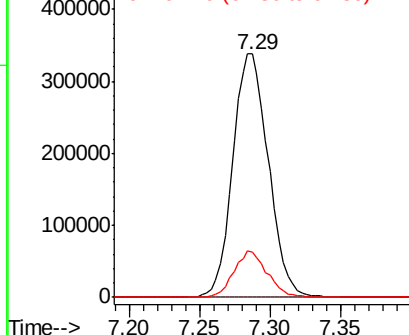
63 100

41 0.0 60.9 91.3#

62 18.6 53.3 79.9#



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: 0.058 ppbv

RT: 9.94 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VL033635.D

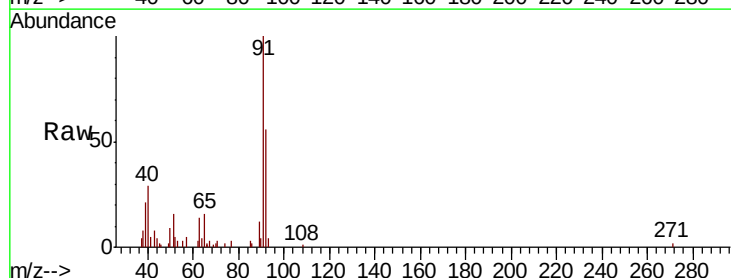
Acq: 2 May 2019 19:44

Tgt Ion: 91 Resp: 13903

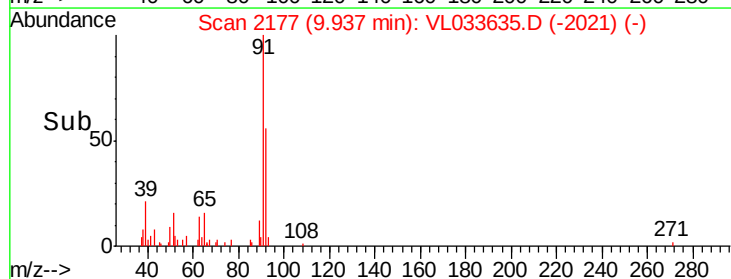
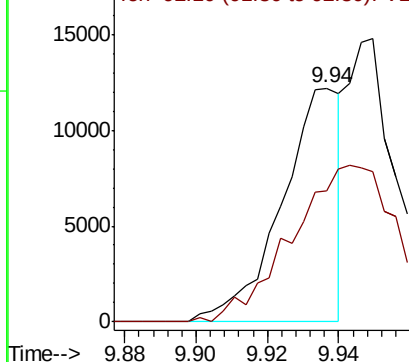
Ion Ratio Lower Upper

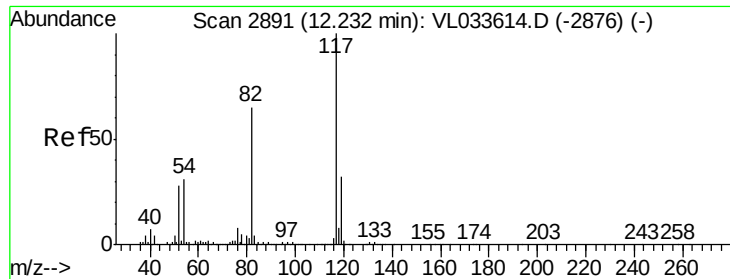
91 100

92 0.0 47.8 71.6#



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0

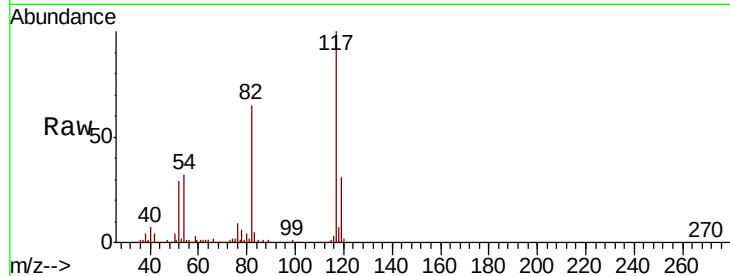




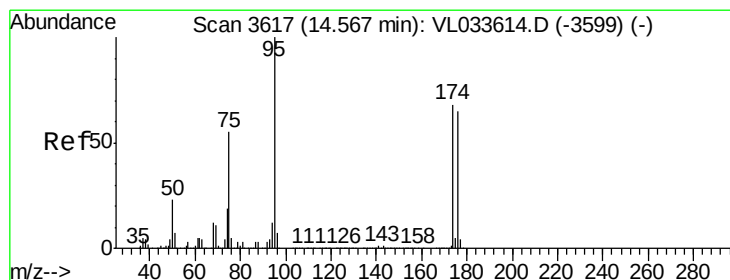
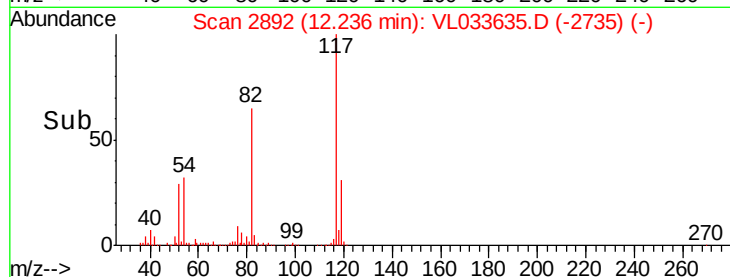
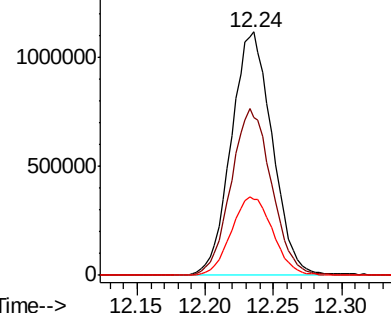
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. 0.00 min
Lab File: VL033635.D
Acq: 2 May 2019 19:44

Instrument :
MSVOA_L
ClientSampleId :
A-5DL

Tgt Ion: 117 Resp: 2324384
Ion Ratio Lower Upper
117 100
82 68.1 52.6 78.8
119 32.9 28.3 42.5

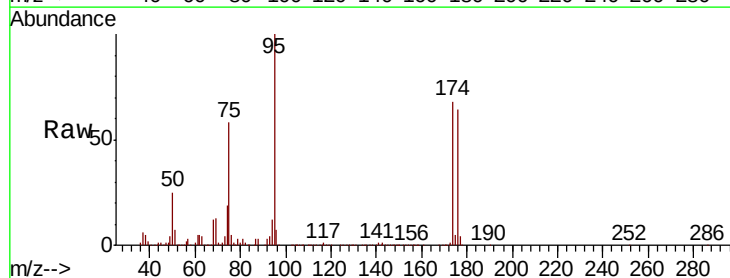


Abundance Ion 117.10 (116.80 to 117.80): V
1500000 Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 10.398 ppbv
RT: 14.57 min Scan# 3619
Delta R.T. 0.01 min
Lab File: VL033635.D
Acq: 2 May 2019 19:44

Tgt Ion: 95 Resp: 1840026
Ion Ratio Lower Upper
95 100
174 67.0 53.9 80.9
175 5.0 4.0 6.0



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

