

Data File : VL033293.D
Acq On : 12 Mar 2019 21:38
Operator : SY/AP
Sample : K1805-06DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ST-IA-2DL

Quant Time: Mar 13 07:56:19 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 13 07:17:55 2019
QLast Update : Wed Mar 13 07:17:55 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	795963	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1766971	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1807686	10.00	ppbv	0.00

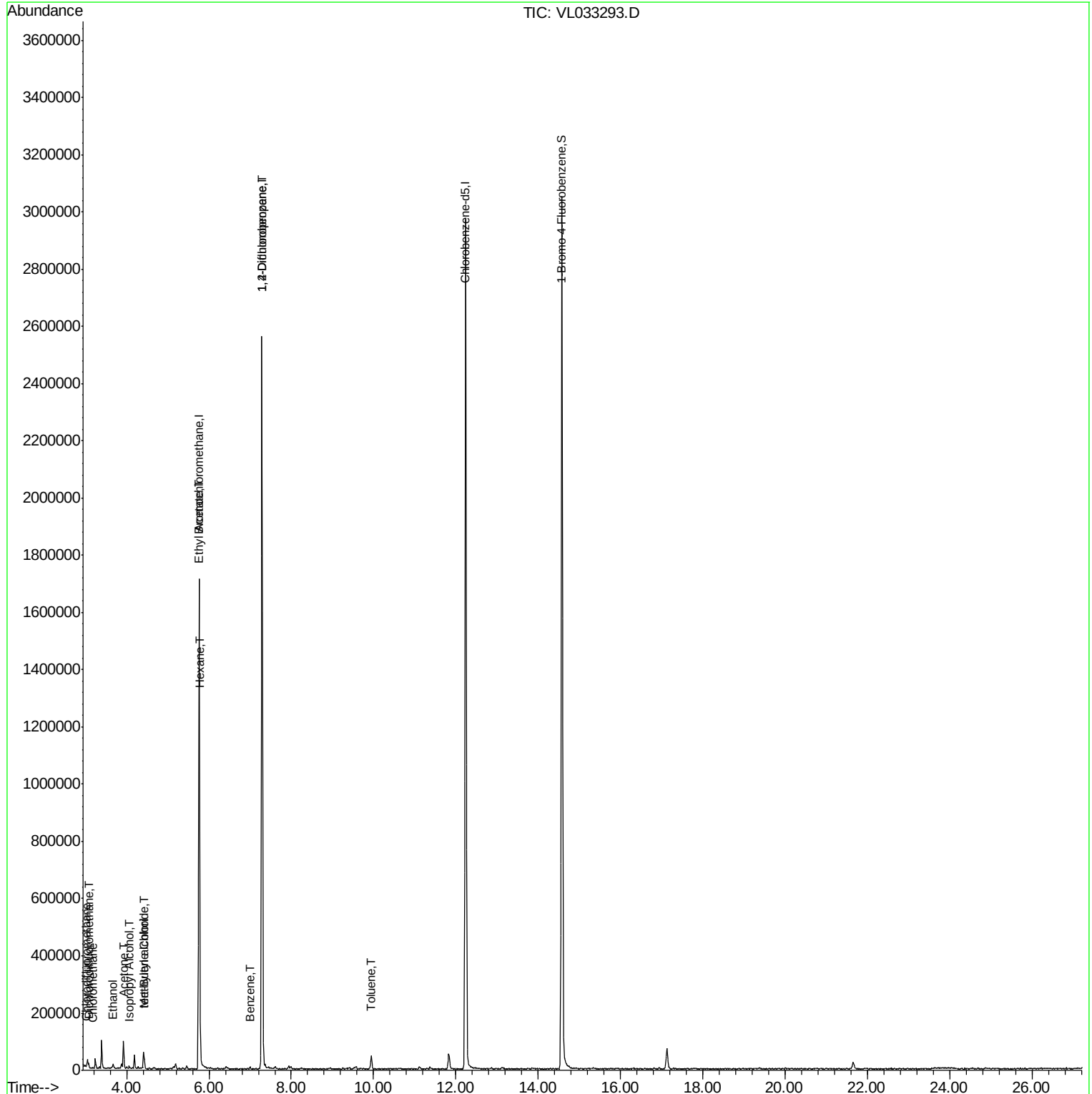
System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.58 95 1448306 10.37 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 103.70%

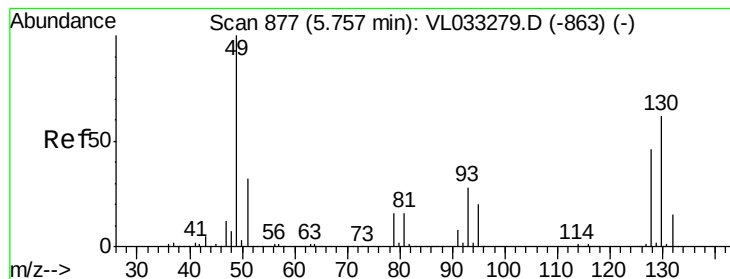
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	10244	0.064	ppbv	93
3) Chlorodifluoromethane	3.02	51	3615	0.034	ppbv	98
4) Chloromethane	3.17	50	3347	0.059	ppbv	92
13) Ethanol	3.67	45	12775	0.870	ppbv	100
15) Acetone	3.92	43	58117	0.476	ppbv #	85
17) tert-Butyl alcohol	4.40	59	393	0.024	ppbv #	74
19) Isopropyl Alcohol	4.06	45	2680	0.036	ppbv #	95
20) Methylene Chloride	4.41	84	17925	0.442	ppbv #	87
25) Ethyl Acetate	5.77	43	6739	0.036	ppbv #	76
26) Hexane	5.78	57	16637	0.188	ppbv #	40
36) Benzene	7.00	78	5748	0.035	ppbv #	73
39) 1,2-Dichloropropane	7.29	63	485640	7.919	ppbv #	24
53) Toluene	9.94	91	33273	0.177	ppbv	98

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

ALS Vial : 1 Sample Multiplier: 1

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

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ST-IA-2DL

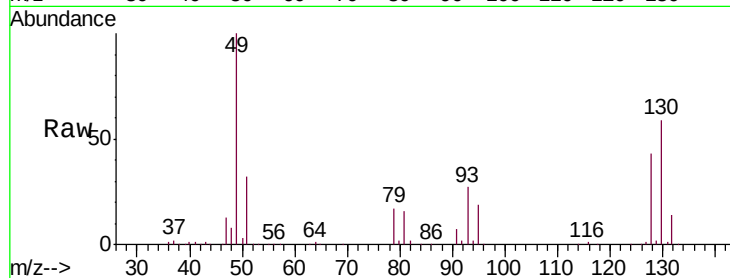
Tgt Ion: 49 Resp: 795963

Ion Ratio Lower Upper

49 100

128 46.5 23.3 69.9

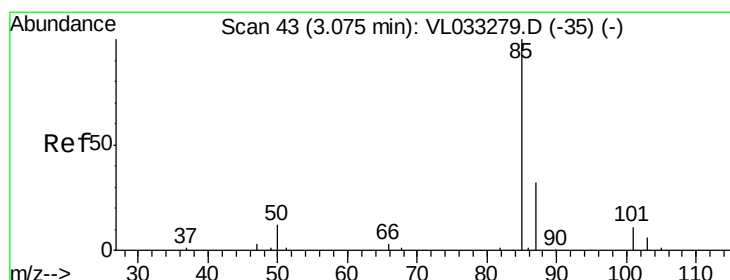
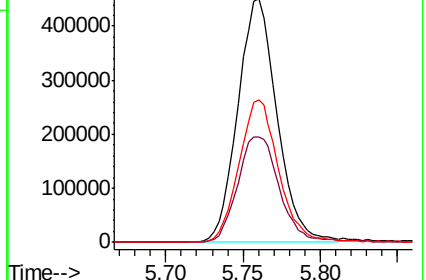
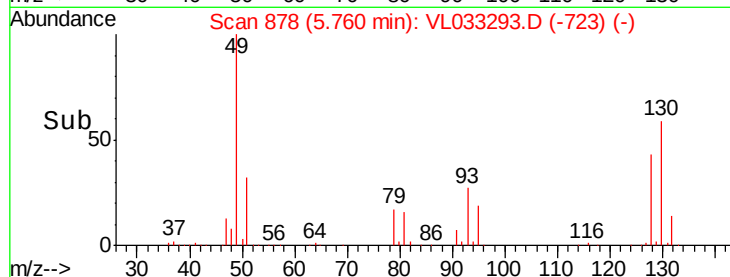
130 59.6 30.0 90.1



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: 0.064 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033293.D

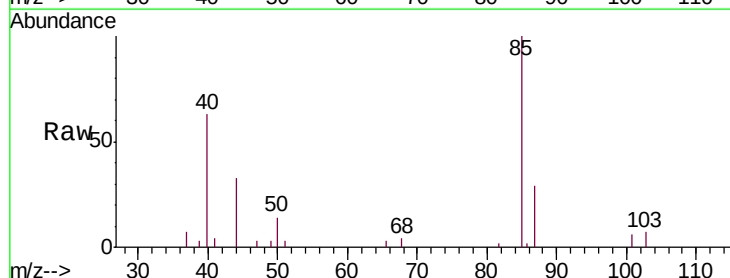
Acq: 12 Mar 2019 21:38

Tgt Ion: 85 Resp: 10244

Ion Ratio Lower Upper

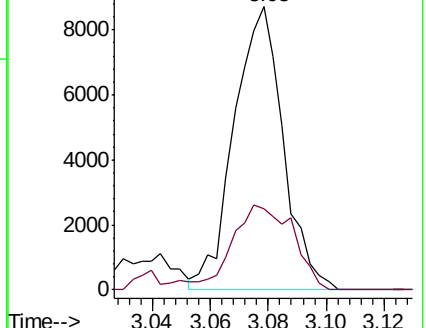
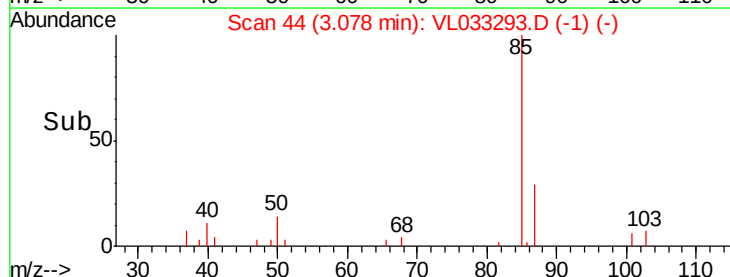
85 100

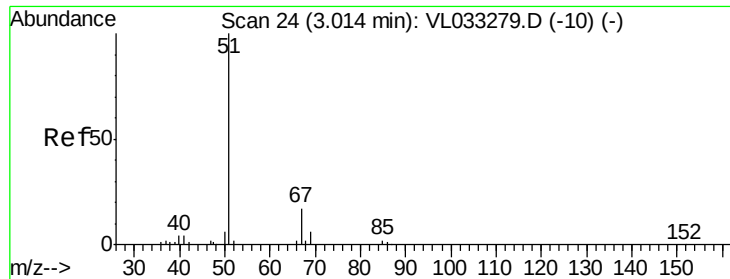
87 28.8 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.034 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033293.D

Acq: 12 Mar 2019 21:38

Instrument :

MSVOA_L

ClientSampleId :

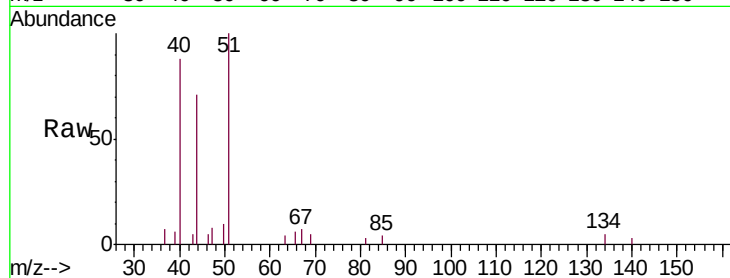
ST-IA-2DL

Tgt Ion: 51 Resp: 3615

Ion Ratio Lower Upper

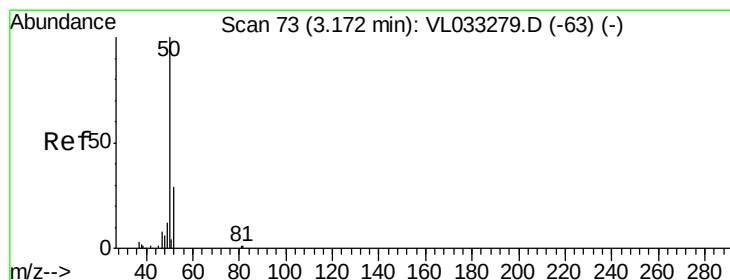
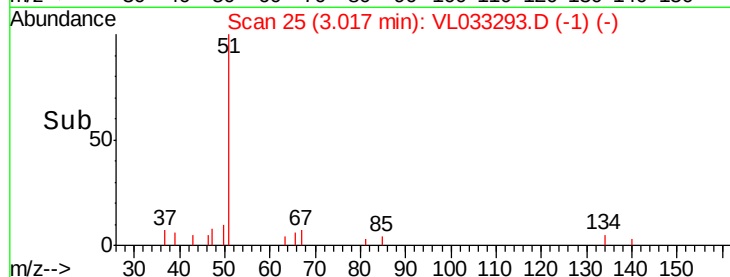
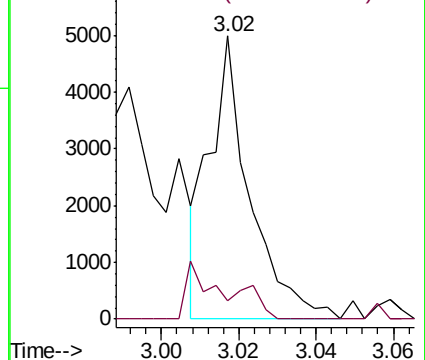
51 100

67 19.7 15.0 22.4



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.059 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL033293.D

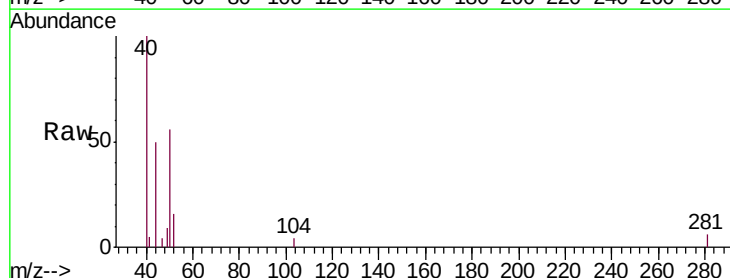
Acq: 12 Mar 2019 21:38

Tgt Ion: 50 Resp: 3347

Ion Ratio Lower Upper

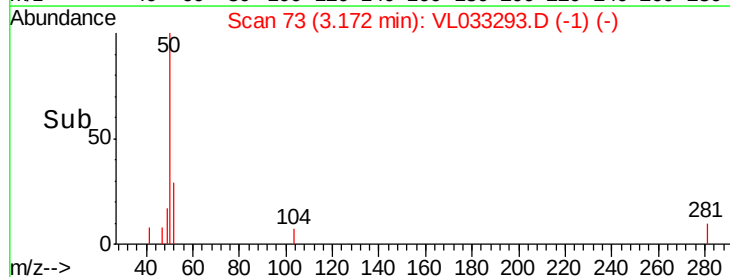
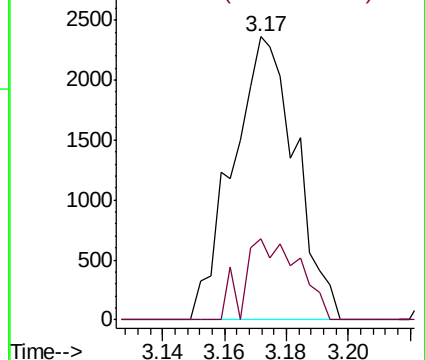
50 100

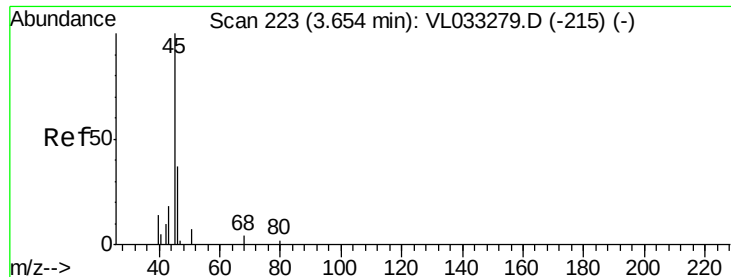
52 28.6 26.6 39.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#13

Ethanol

Concen: 0.870 ppbv

RT: 3.67 min Scan# 228

Delta R.T. 0.02 min

Lab File: VL033293.D

Acq: 12 Mar 2019 21:38

Instrument :

MSVOA_L

ClientSampleId :

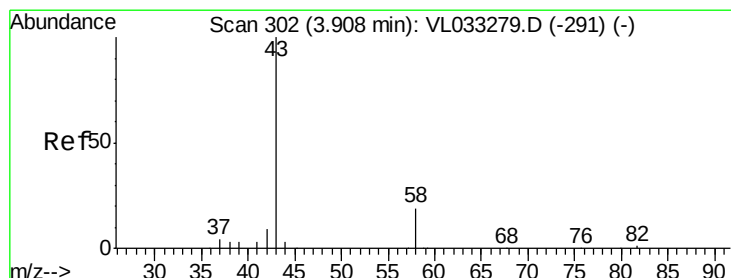
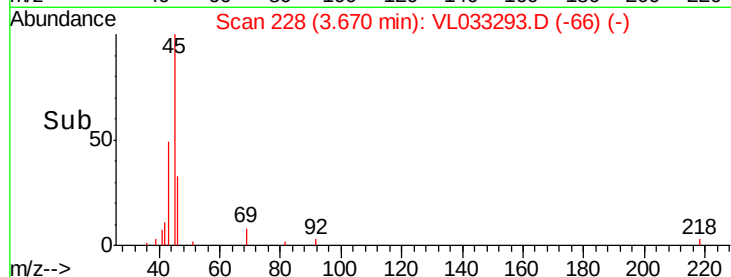
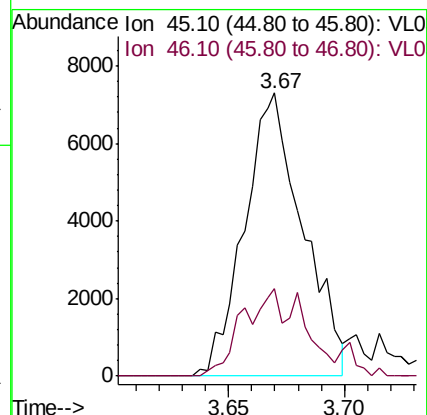
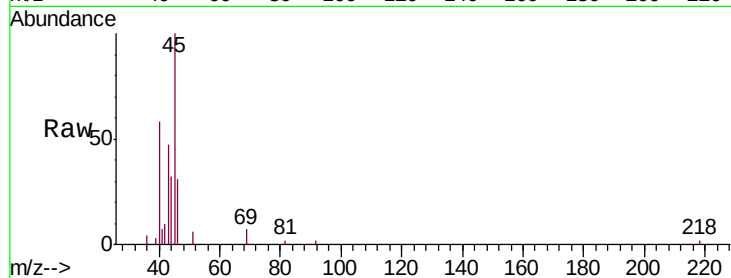
ST-IA-2DL

Tgt Ion: 45 Resp: 12775

Ion Ratio Lower Upper

45 100

46 35.0 13.9 55.7



#15

Acetone

Concen: 0.476 ppbv

RT: 3.92 min Scan# 306

Delta R.T. 0.02 min

Lab File: VL033293.D

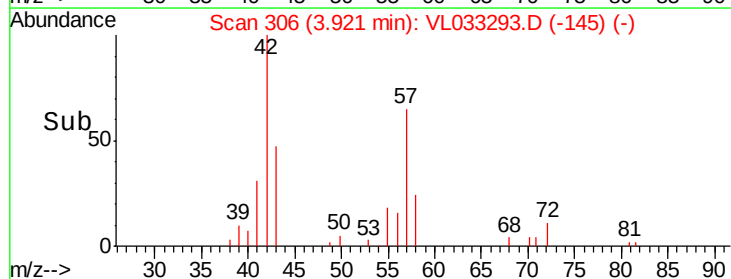
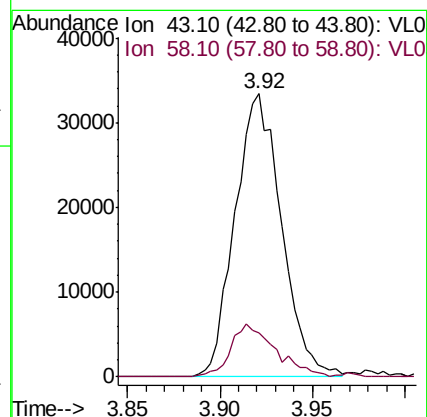
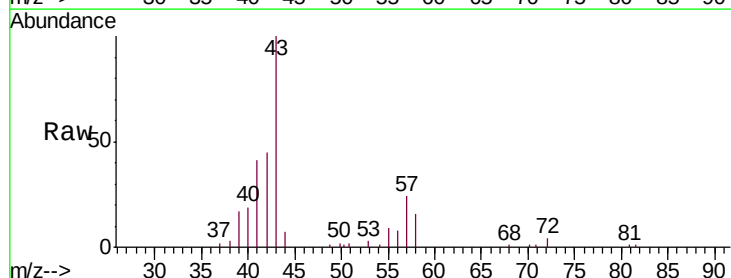
Acq: 12 Mar 2019 21:38

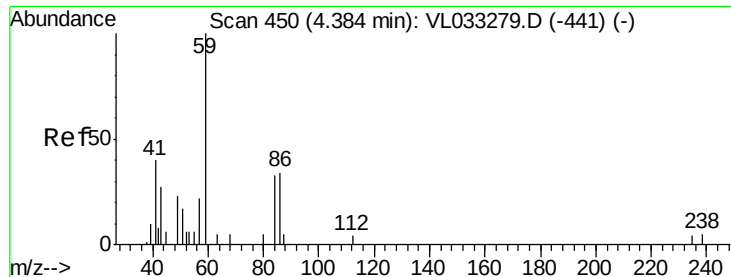
Tgt Ion: 43 Resp: 58117

Ion Ratio Lower Upper

43 100

58 18.5 21.1 31.7#





#17

tert-Butyl alcohol

Concen: 0.024 ppbv

RT: 4.40 min Scan# 455

Delta R.T. 0.04 min

Lab File: VL033293.D

Acq: 12 Mar 2019 21:38

Instrument :

MSVOA_L

ClientSampleId :

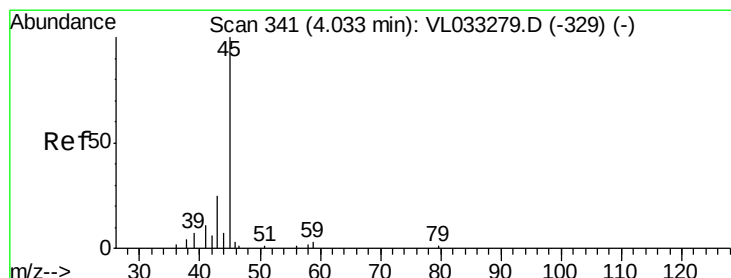
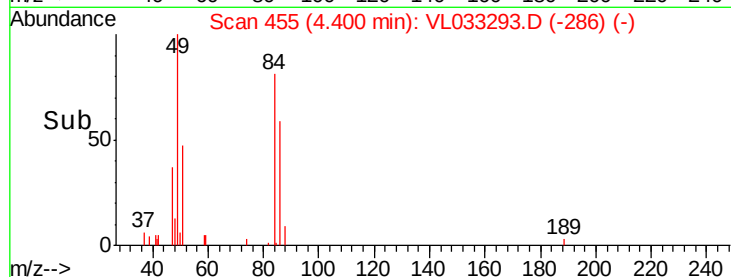
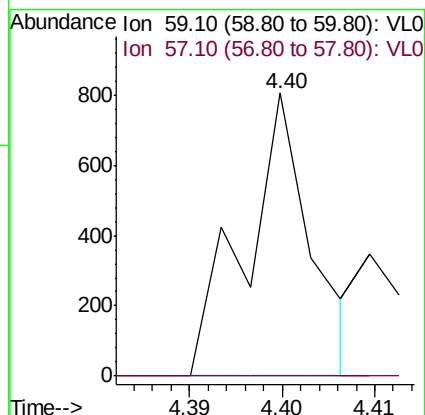
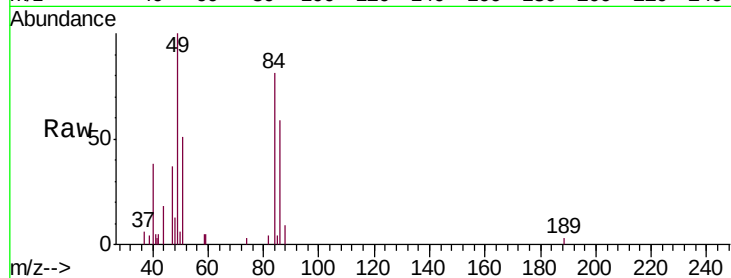
ST-IA-2DL

Tgt Ion: 59 Resp: 393

Ion Ratio Lower Upper

59 100

57 0.0 7.5 11.3#



#19

Isopropyl Alcohol

Concen: 0.036 ppbv

RT: 4.06 min Scan# 349

Delta R.T. 0.04 min

Lab File: VL033293.D

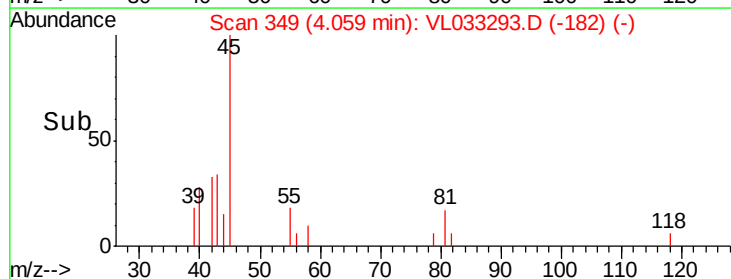
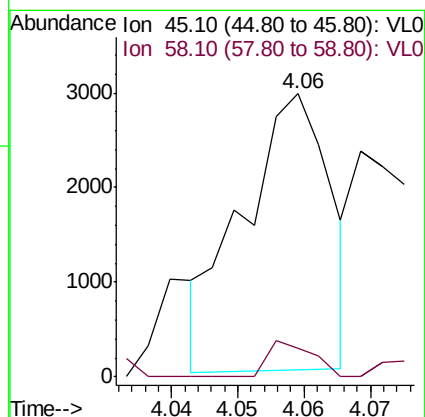
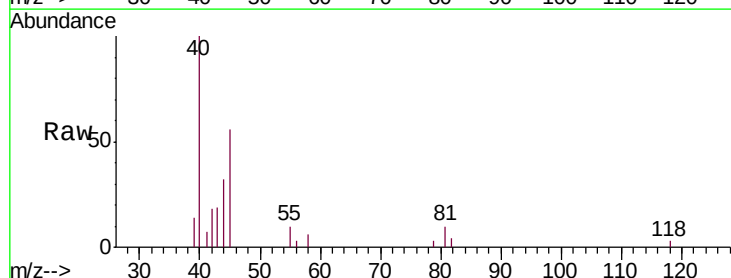
Acq: 12 Mar 2019 21:38

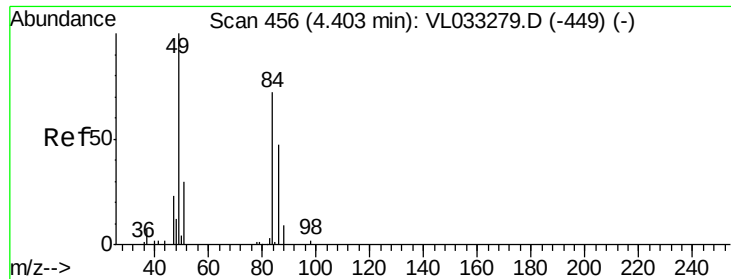
Tgt Ion: 45 Resp: 2680

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.2#

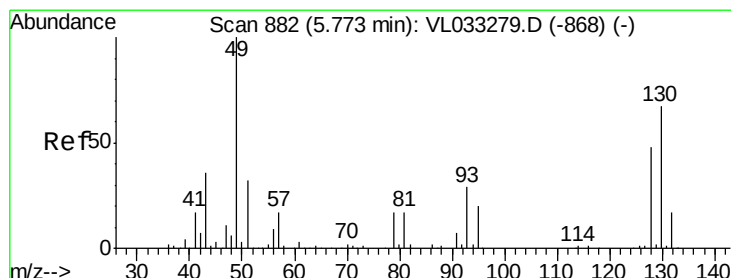
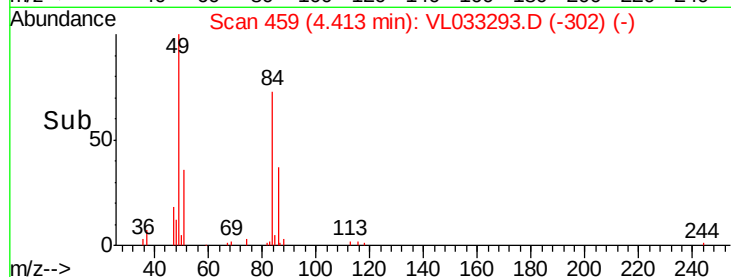
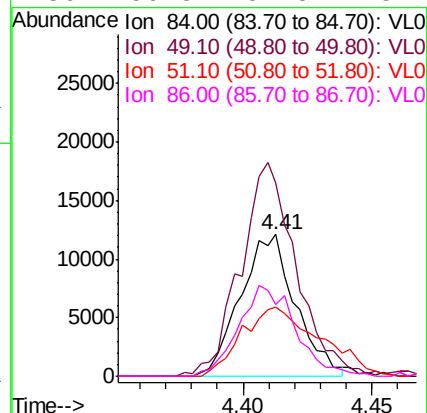
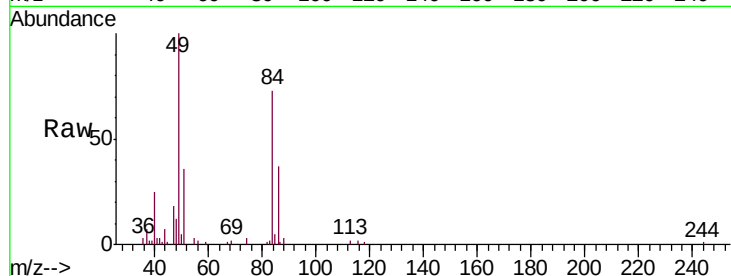




#20
Methylene Chloride
Concen: 0.442 ppbv
RT: 4.41 min Scan# 459
Delta R.T. 0.00 min
Lab File: VL033293.D
Acq: 12 Mar 2019 21:38

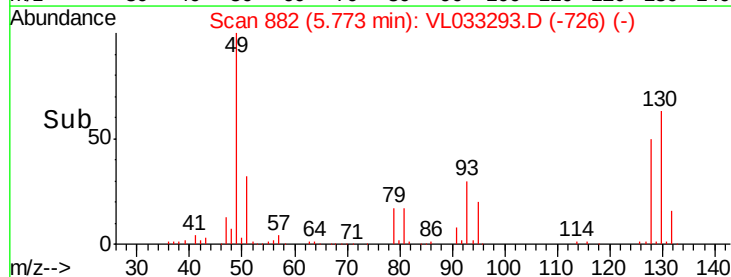
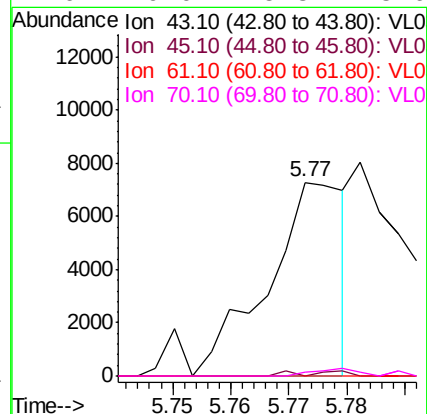
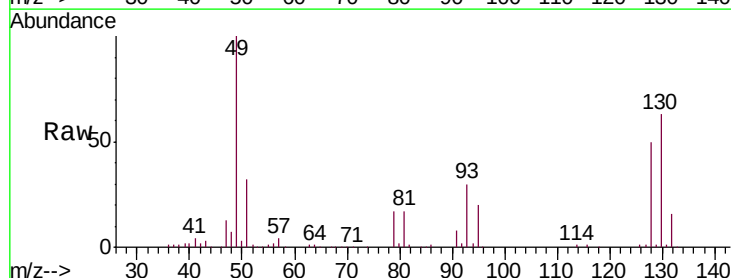
Instrument :
MSVOA_L
ClientSampled :
ST-IA-2DL

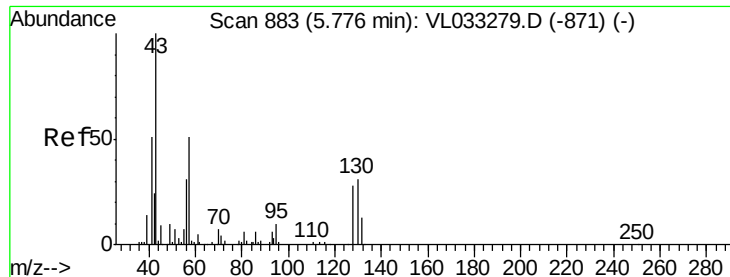
Tgt Ion: 84 Resp: 17925
Ion Ratio Lower Upper
84 100
49 134.5 120.3 180.5
51 48.5 36.2 54.4
86 50.3 52.5 78.7#



#25
Ethyl Acetate
Concen: 0.036 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.00 min
Lab File: VL033293.D
Acq: 12 Mar 2019 21:38

Tgt Ion: 43 Resp: 6739
Ion Ratio Lower Upper
43 100
45 0.0 7.8 11.6#
61 0.0 7.3 10.9#
70 0.0 5.8 8.6#

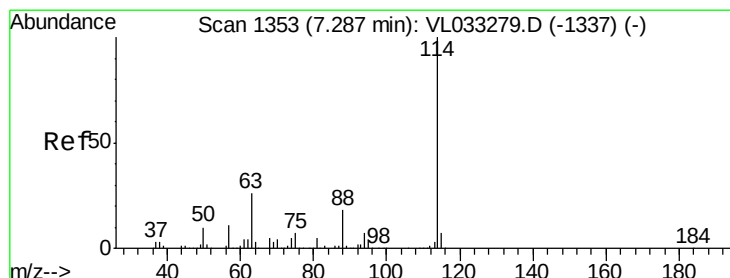
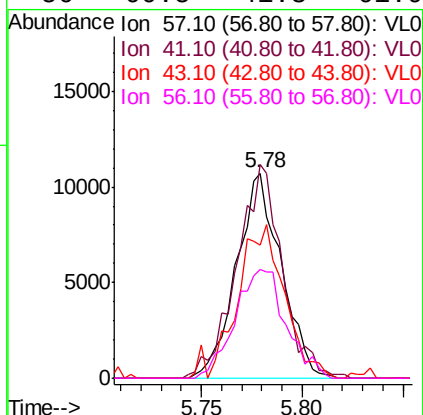
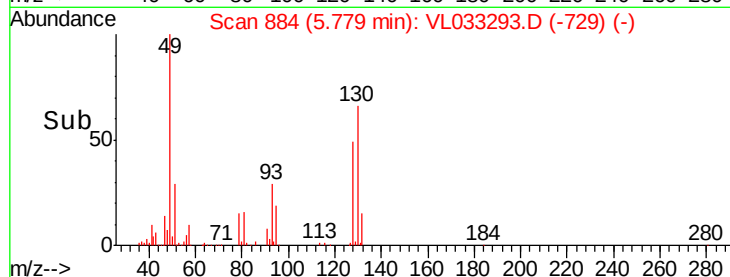
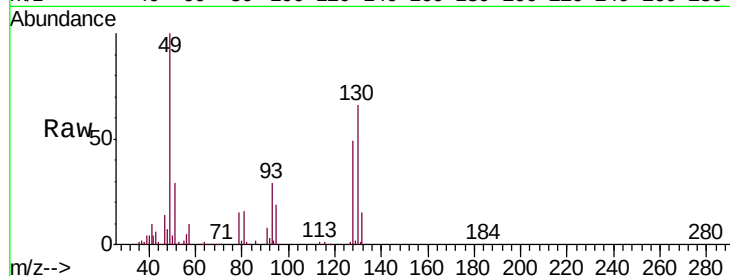




#26
Hexane
Concen: 0.188 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033293.D
Acq: 12 Mar 2019 21:38

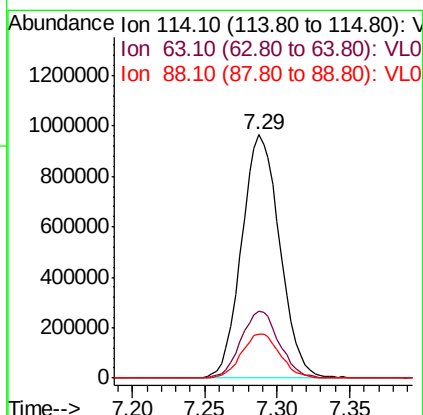
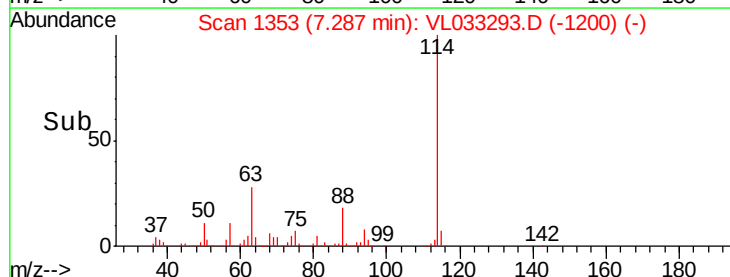
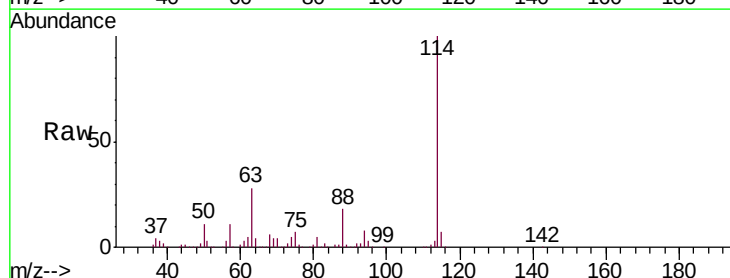
Instrument :
MSVOA_L
ClientSampleId :
ST-IA-2DL

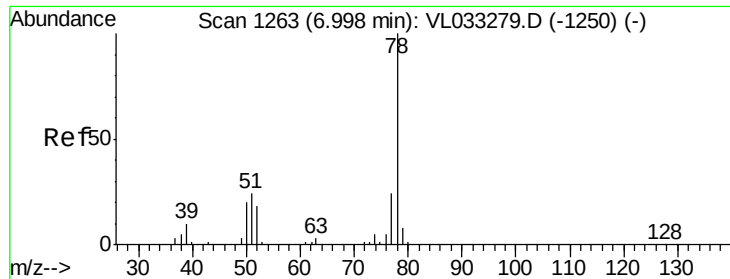
Tgt Ion: 57 Resp: 16637
Ion Ratio Lower Upper
57 100
41 105.9 70.7 106.1
43 81.1 178.6 267.8#
56 60.5 41.3 61.9



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. -0.01 min
Lab File: VL033293.D
Acq: 12 Mar 2019 21:38

Tgt Ion: 114 Resp: 1766971
Ion Ratio Lower Upper
114 100
63 27.6 21.5 32.3
88 18.3 14.6 22.0





#36

Benzene

Concen: 0.035 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VL033293.D

Acq: 12 Mar 2019 21:38

Instrument :

MSVOA_L

ClientSampleId :

ST-IA-2DL

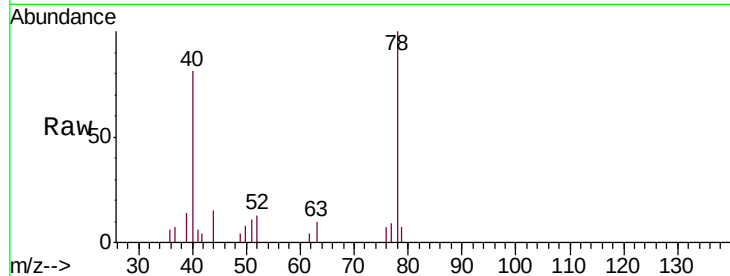
Tgt Ion: 78 Resp: 5748

Ion Ratio Lower Upper

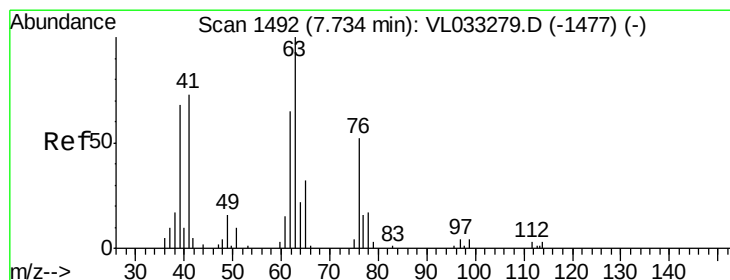
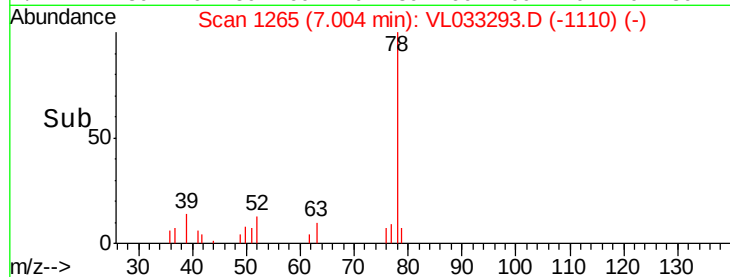
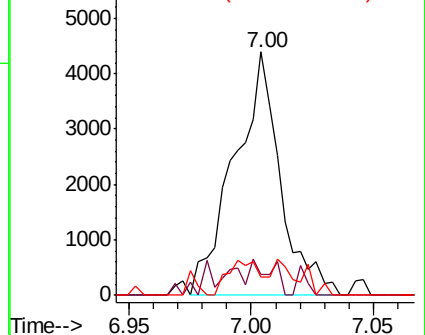
78 100

77 8.6 17.7 26.5#

50 7.8 15.7 23.5#



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: 7.919 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.45 min

Lab File: VL033293.D

Acq: 12 Mar 2019 21:38

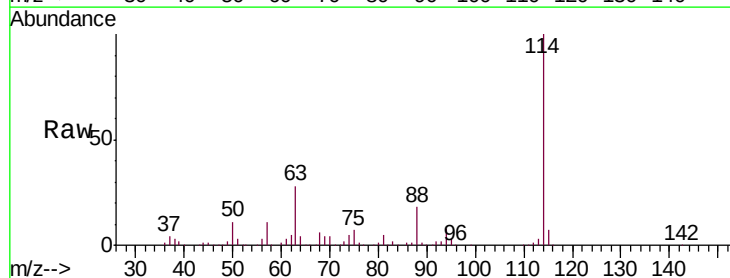
Tgt Ion: 63 Resp: 485640

Ion Ratio Lower Upper

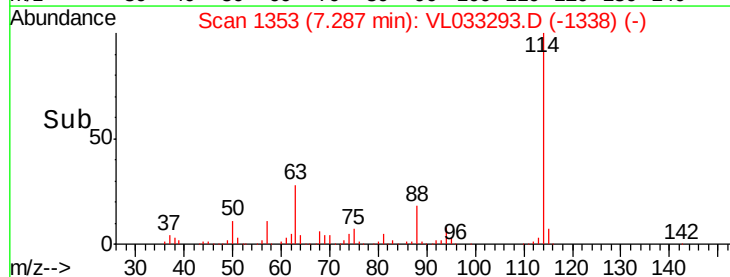
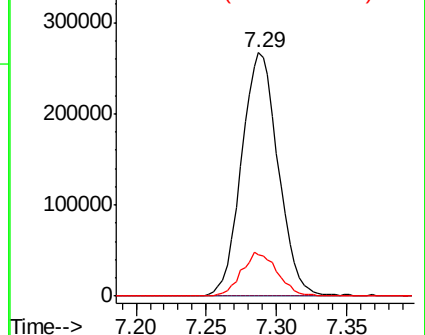
63 100

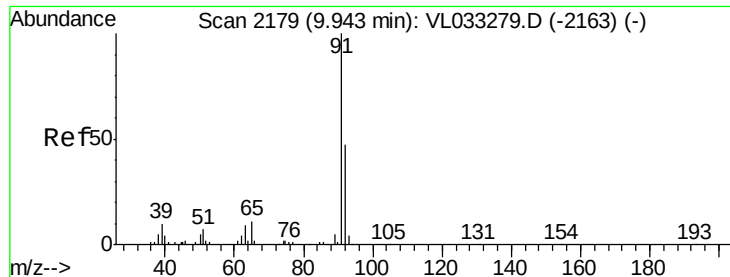
41 0.0 58.3 87.5#

62 16.8 55.3 82.9#



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: 0.177 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.01 min

Lab File: VL033293.D

Acq: 12 Mar 2019 21:38

Instrument :

MSVOA_L

ClientSampleId :

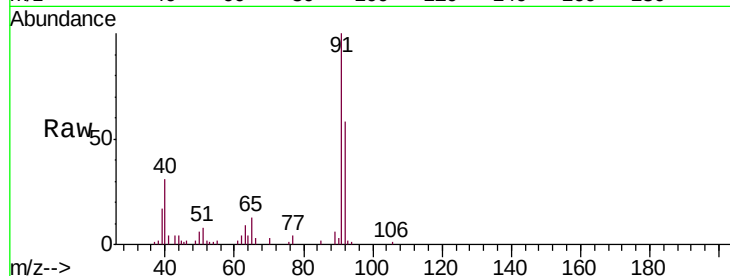
ST-IA-2DL

Tgt Ion: 91 Resp: 33273

Ion Ratio Lower Upper

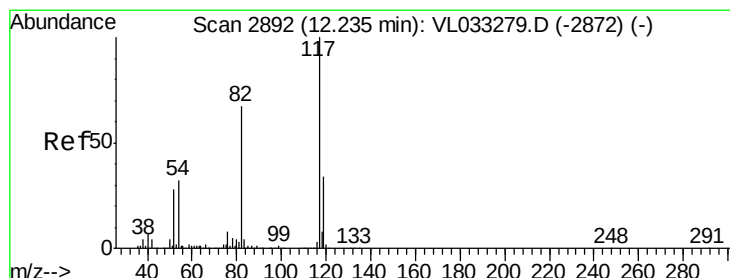
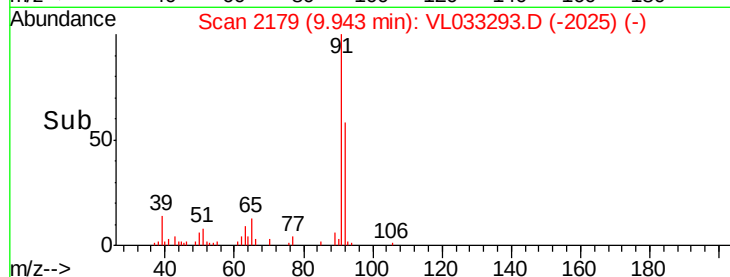
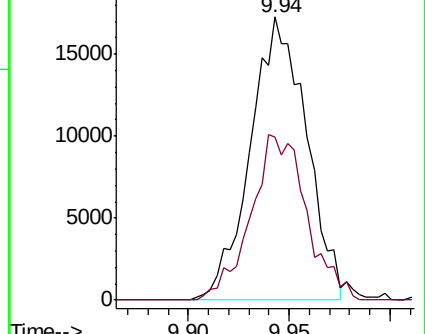
91 100

92 58.5 47.8 71.8



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. -0.01 min

Lab File: VL033293.D

Acq: 12 Mar 2019 21:38

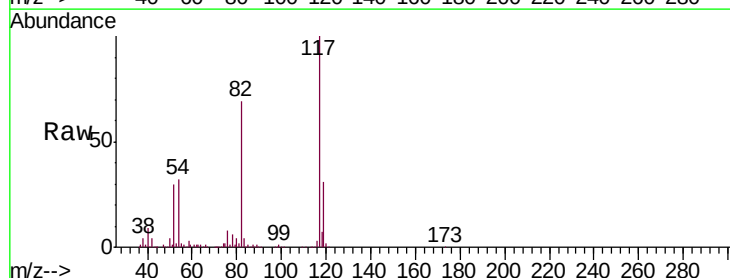
Tgt Ion: 117 Resp: 1807686

Ion Ratio Lower Upper

117 100

82 68.3 51.1 76.7

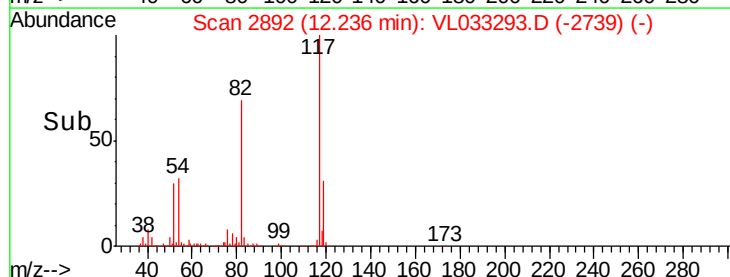
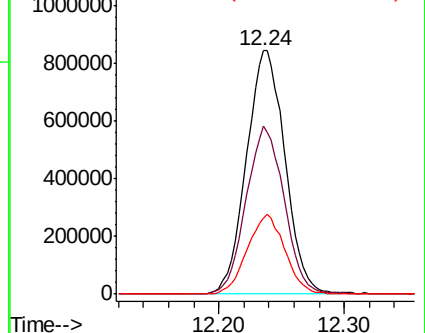
119 32.0 43.6 65.4#

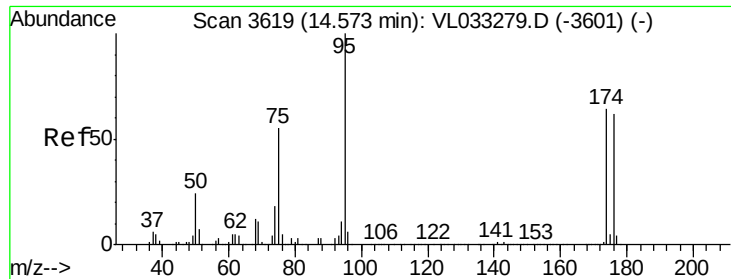


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.375 ppbv
 RT: 14.58 min Scan# 3620
 Delta R.T. -0.01 min
 Lab File: VL033293.D
 Acq: 12 Mar 2019 21:38

Instrument :
 MSVOA_L
 ClientSampleId :
 ST-IA-2DL

Tgt Ion: 95 Resp: 1448306
 Ion Ratio Lower Upper
 95 100
 174 63.2 51.7 77.5
 175 4.6 3.7 5.5

