

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080118\
 Data File : VL032335.D
 Acq On : 1 Aug 2018 23:17
 Operator : SY/AP
 Sample : J4235-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

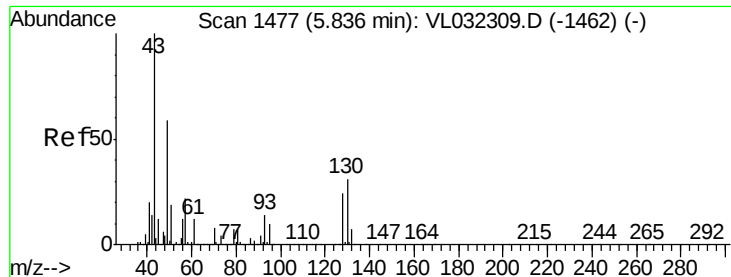
Quant Time: Aug 02 00:48:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 27 07:05:37 2018
 QLast Update : Fri Jul 27 07:05:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.82	49	1919004	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.36	114	4627600	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.32	117	4551232	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.66	95	3648682	10.33	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.12	85	11208	0.048	ppbv	91
3) Chlorodifluoromethane	3.03	51	59142	0.308	ppbv #	69
4) Chloromethane	3.22	50	7754	0.067	ppbv	91
9) Propene	3.08	41	39618	0.459	ppbv	92
13) Ethanol	3.69	45	454161	18.318	ppbv	97
15) Acetone	3.96	43	379450	2.098	ppbv	93
16) 1,3-Butadiene	3.38	39	10545	0.112	ppbv #	12
17) tert-Butyl alcohol	4.44	59	12565	0.219	ppbv #	90
19) Isopropyl Alcohol	4.08	45	106057	0.879	ppbv #	94
20) Methylene Chloride	4.46	84	26544	0.365	ppbv #	96
23) Vinyl Acetate	5.20	43	13751	0.042	ppbv #	46
25) Ethyl Acetate	5.84	43	66840	0.165	ppbv #	90
26) Hexane	5.84	57	67749	0.369	ppbv #	51
34) 2-Butanone	5.40	43	21136	0.071	ppbv #	81
37) 1,2-Dichloroethane	6.47	62	13240	0.056	ppbv #	87
39) 1,2-Dichloropropane	7.36	63	1297491	6.322	ppbv #	27
53) Toluene	10.02	91	18687	0.038	ppbv #	32

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.82 min Scan# 1473

Delta R.T. -0.01 min

Lab File: VL032335.D

Acq: 1 Aug 2018 23:17

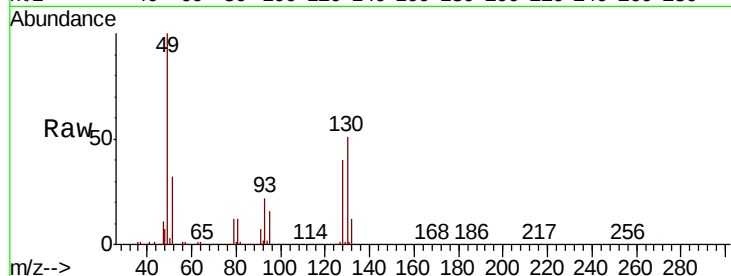
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 49 Resp: 1919004

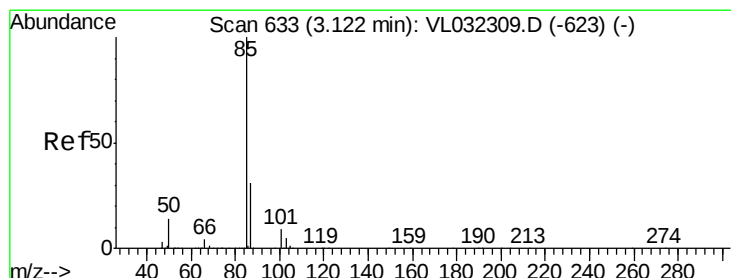
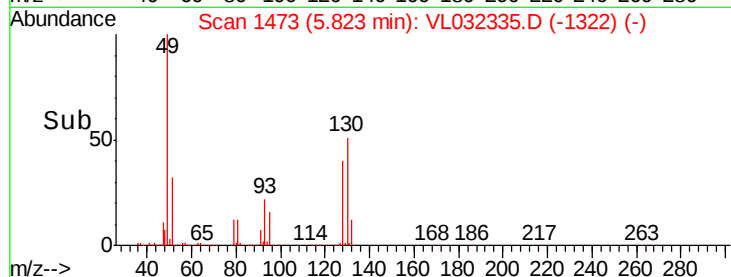
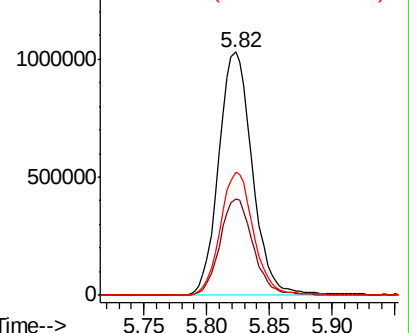
Ion	Ratio	Lower	Upper
49	100		
128	39.4	20.2	60.6
130	51.0	25.8	77.3



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: 0.048 ppbv

RT: 3.12 min Scan# 631

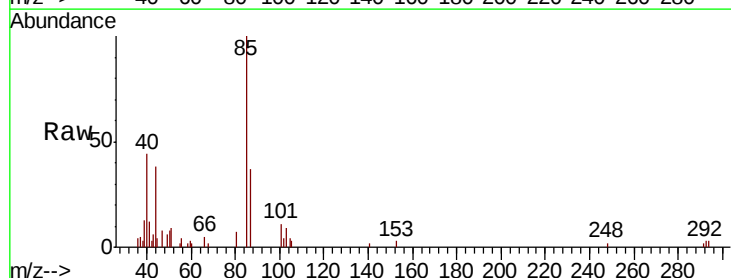
Delta R.T. -0.01 min

Lab File: VL032335.D

Acq: 1 Aug 2018 23:17

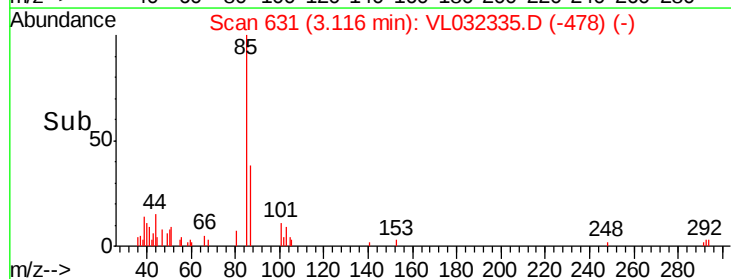
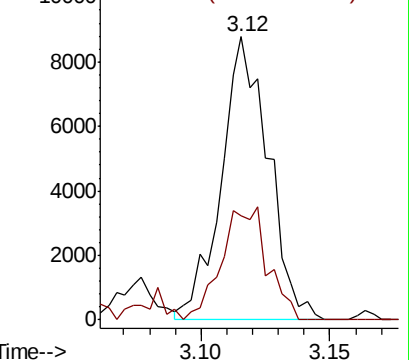
Tgt Ion: 85 Resp: 11208

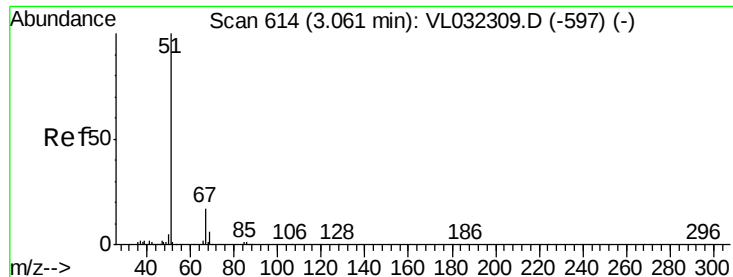
Ion	Ratio	Lower	Upper
85	100		
87	36.7	25.2	37.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.308 ppbv

RT: 3.03 min Scan# 603

Delta R.T. -0.04 min

Lab File: VL032335.D

Acq: 1 Aug 2018 23:17

Instrument :

MSVOA_L

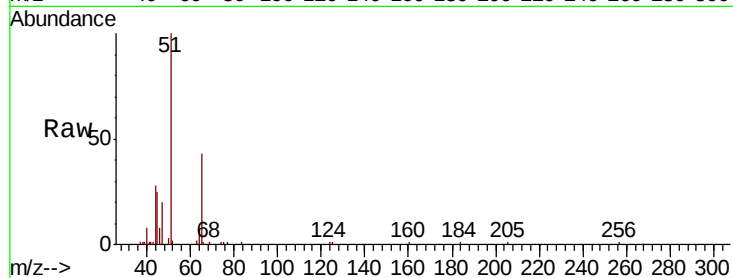
ClientSampleId :

Tot Ion: 51 Resp: 59142

Ion Ratio Lower Upper

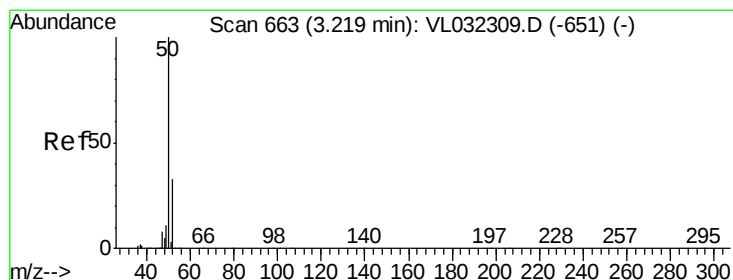
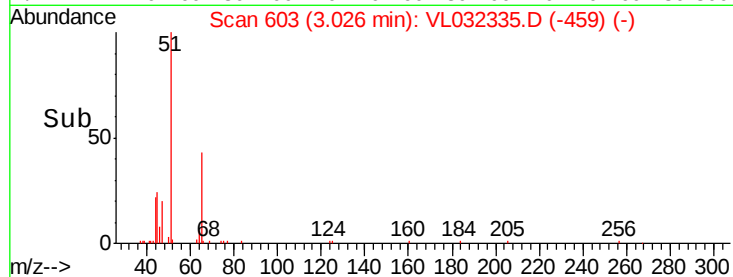
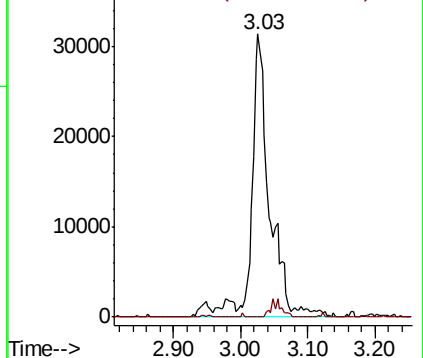
51 100

67 3.4 13.5 20.3#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.067 ppbv

RT: 3.22 min Scan# 662

Delta R.T. -0.00 min

Lab File: VL032335.D

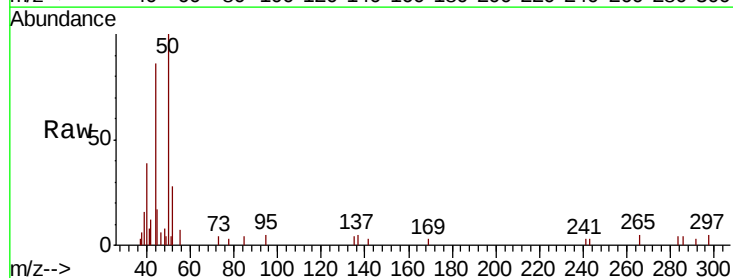
Acq: 1 Aug 2018 23:17

Tgt Ion: 50 Resp: 7754

Ion Ratio Lower Upper

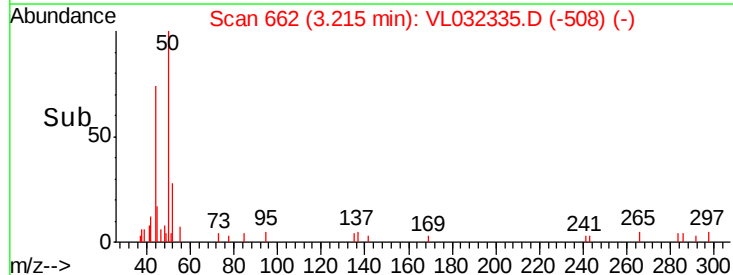
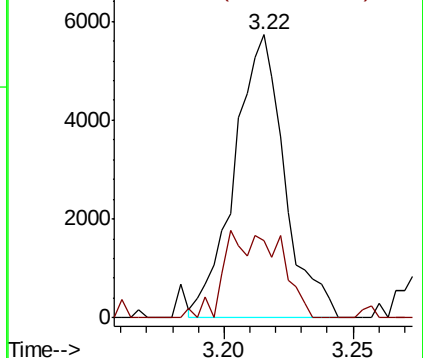
50 100

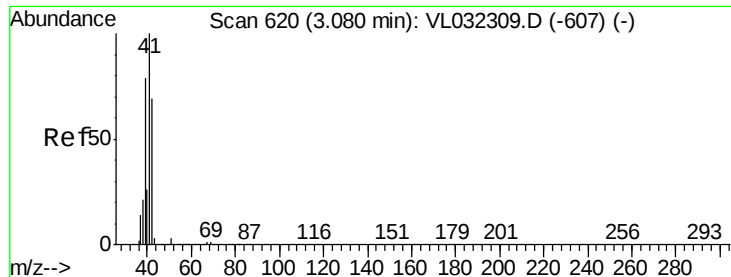
52 27.5 26.2 39.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.459 ppbv

RT: 3.08 min Scan# 621

Delta R.T. 0.00 min

Lab File: VL032335.D

Acq: 1 Aug 2018 23:17

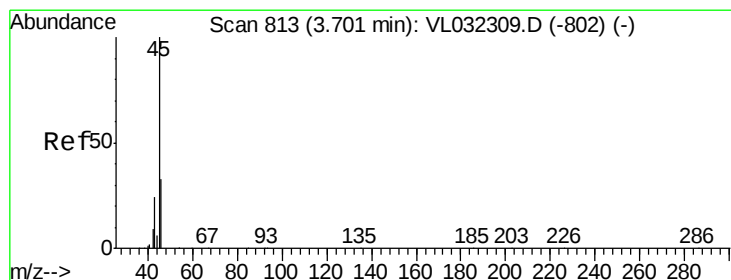
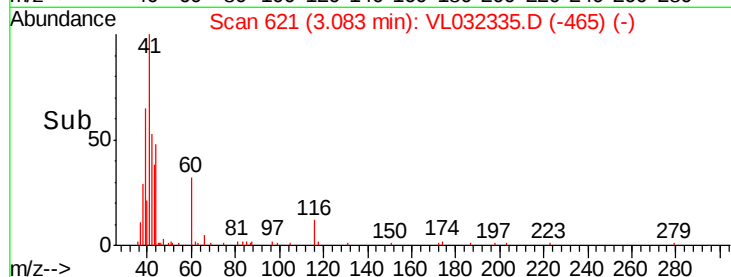
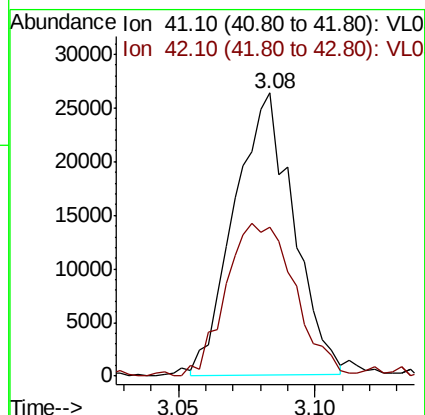
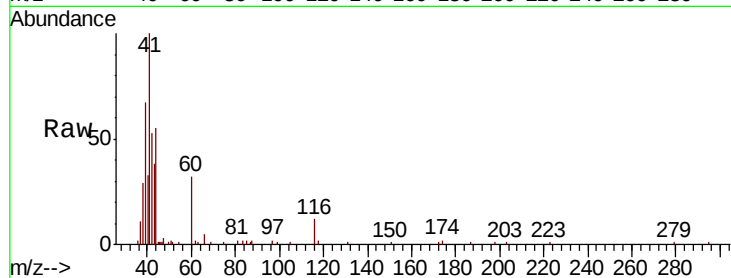
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 41 Resp: 39618

Ion Ratio Lower Upper

41 100

42 64.3 56.8 85.2



#13

Ethanol

Concen: 18.318 ppbv

RT: 3.69 min Scan# 811

Delta R.T. -0.01 min

Lab File: VL032335.D

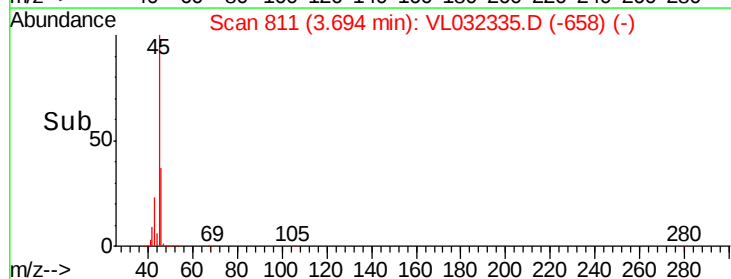
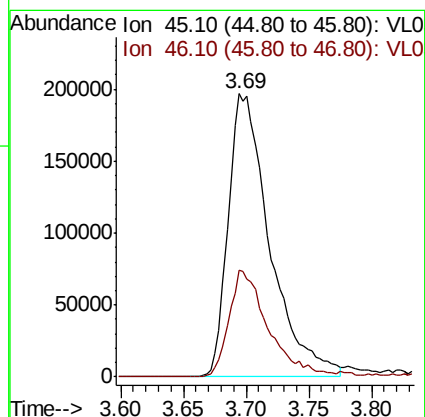
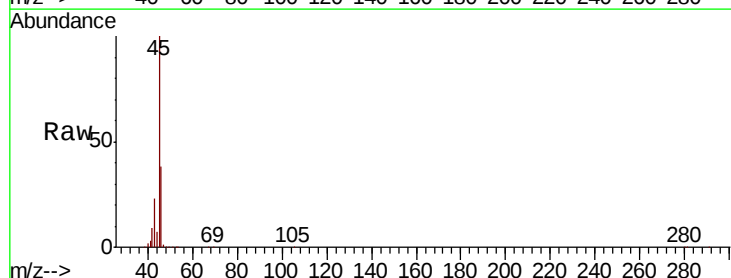
Acq: 1 Aug 2018 23:17

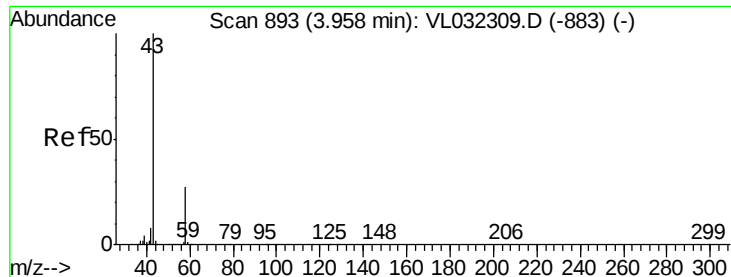
Tgt Ion: 45 Resp: 454161

Ion Ratio Lower Upper

45 100

46 36.4 15.2 60.6

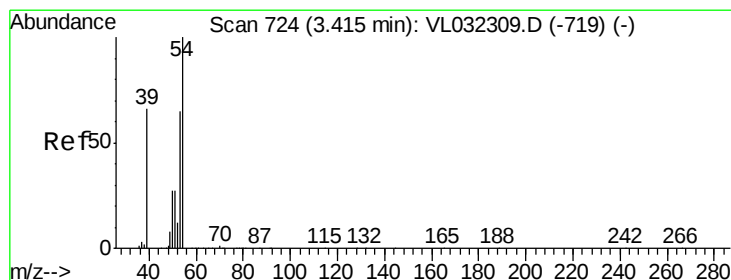
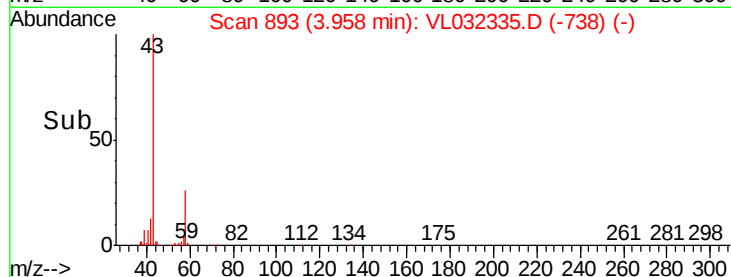
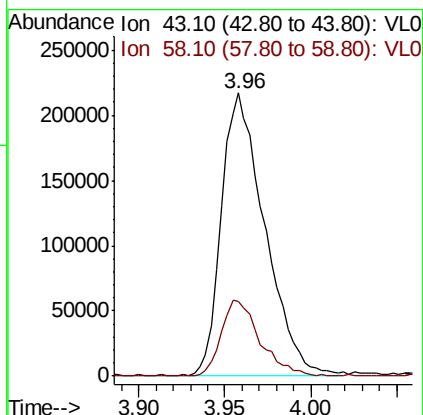
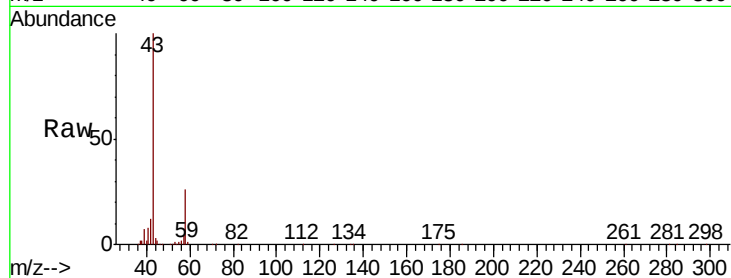




#15
Acetone
Concen: 2.098 ppbv
RT: 3.96 min Scan# 893
Delta R.T. -0.00 min
Lab File: VL032335.D
Acq: 1 Aug 2018 23:17

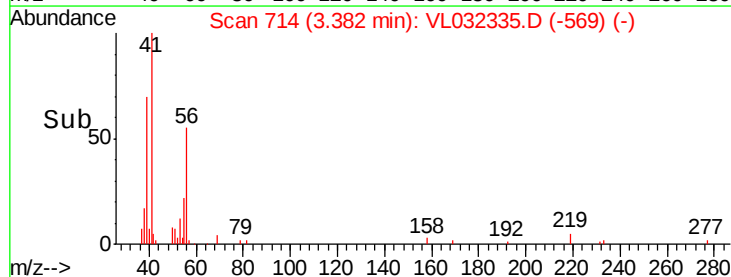
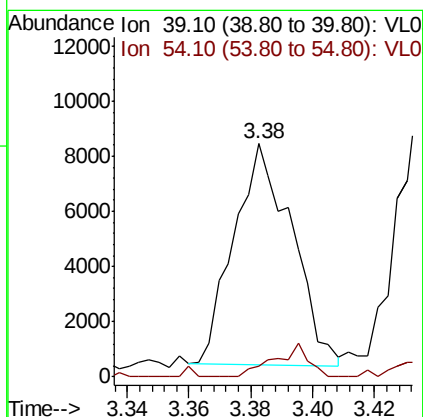
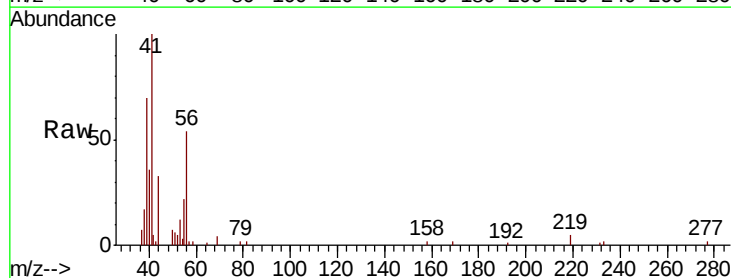
Instrument :
MSVOA_L
ClientSampleId :

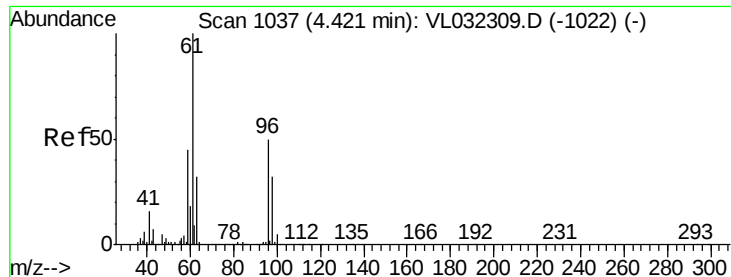
Tot Ion: 43 Resp: 379450
Ion Ratio Lower Upper
43 100
58 24.4 22.5 33.7



#16
1,3-Butadiene
Concen: 0.112 ppbv
RT: 3.38 min Scan# 714
Delta R.T. -0.03 min
Lab File: VL032335.D
Acq: 1 Aug 2018 23:17

Tgt Ion: 39 Resp: 10545
Ion Ratio Lower Upper
39 100
54 8.7 74.3 111.5#

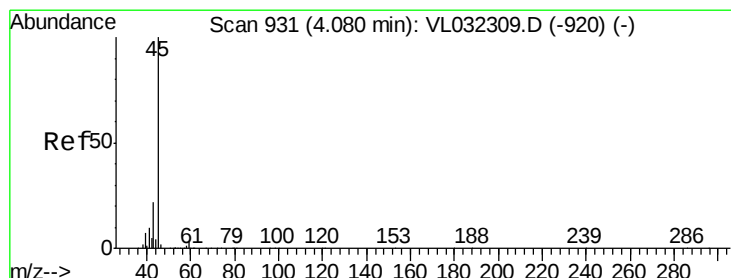
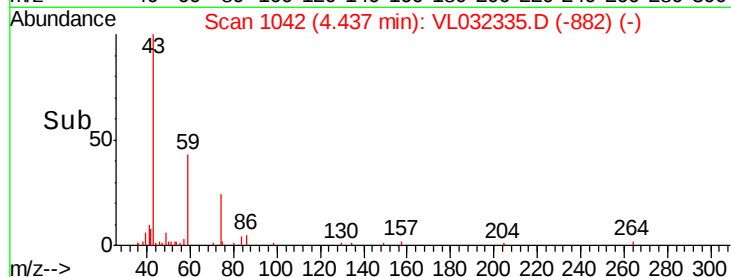
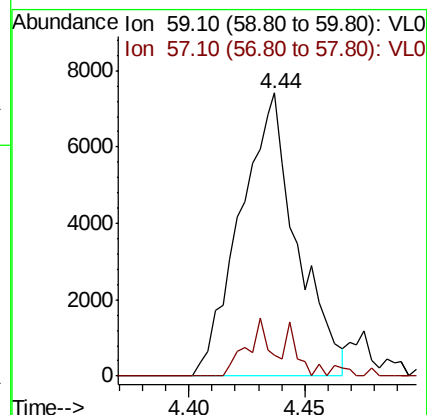
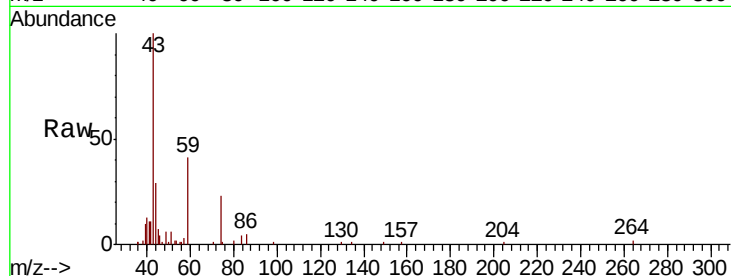




#17
 tert-Butyl alcohol
 Concen: 0.219 ppbv
 RT: 4.44 min Scan# 1042
 Delta R.T. 0.02 min
 Lab File: VL032335.D
 Acq: 1 Aug 2018 23:17

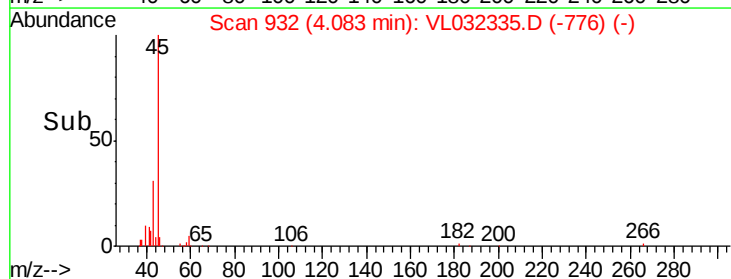
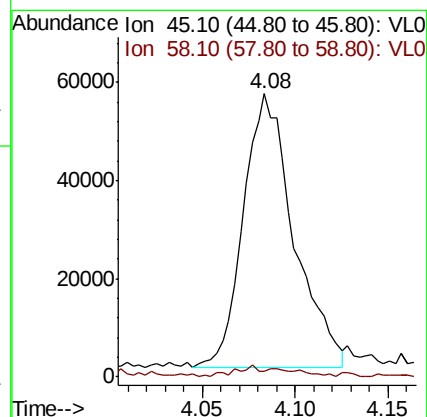
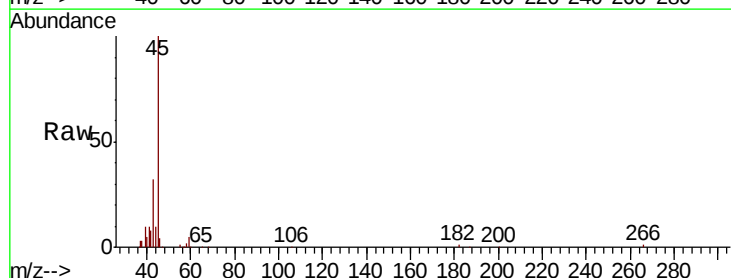
Instrument :
 MSVOA_L
 ClientSampleId :

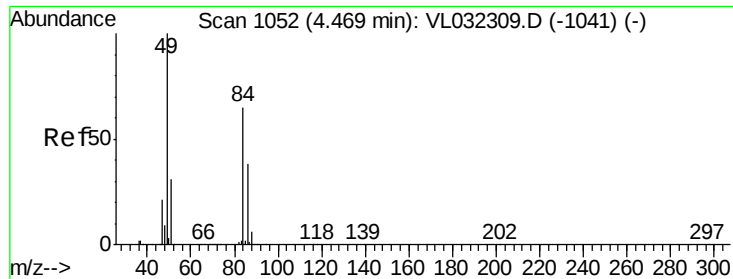
Tot Ion: 59 Resp: 12565
 Ion Ratio Lower Upper
 59 100
 57 13.8 8.0 12.0#



#19
 Isopropyl Alcohol
 Concen: 0.879 ppbv
 RT: 4.08 min Scan# 932
 Delta R.T. 0.00 min
 Lab File: VL032335.D
 Acq: 1 Aug 2018 23:17

Tgt Ion: 45 Resp: 106057
 Ion Ratio Lower Upper
 45 100
 58 4.1 1.5 2.3#

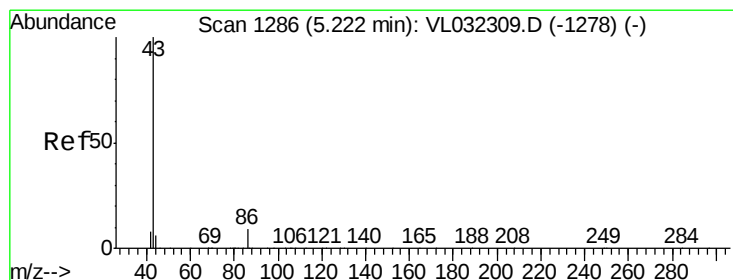
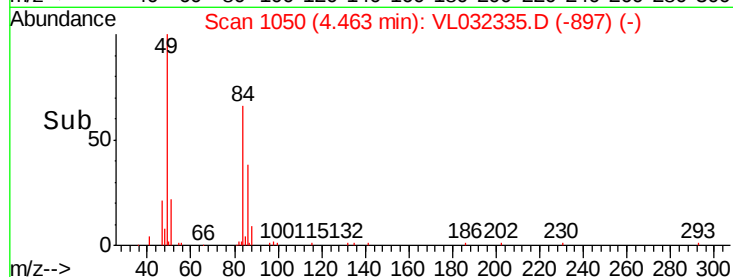
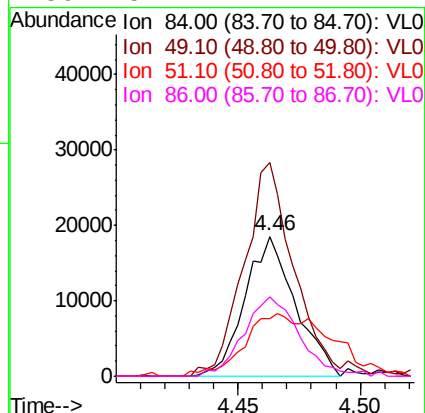
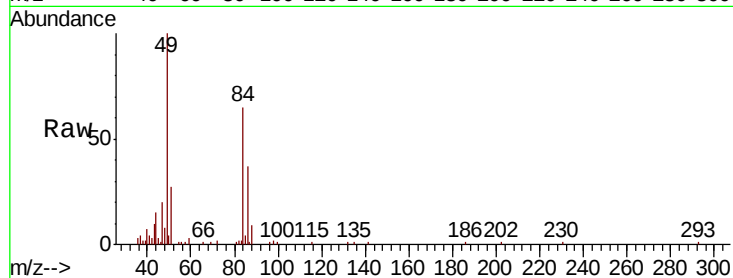




#20
Methvlene Chloride
Concen: 0.365 ppbv
RT: 4.46 min Scan# 1050
Delta R.T. -0.01 min
Lab File: VL032335.D
Acq: 1 Aug 2018 23:17

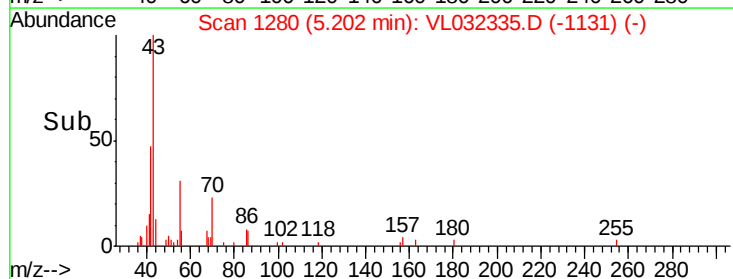
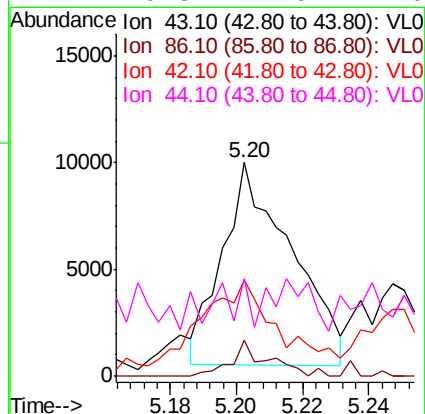
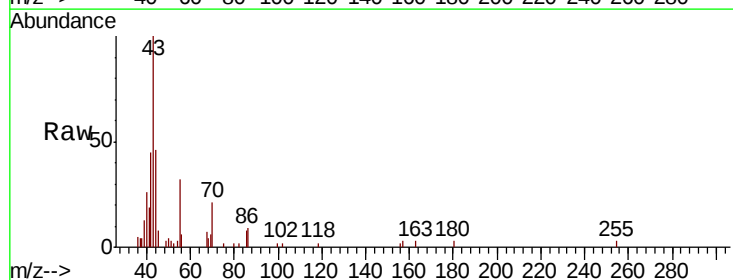
Instrument :
MSVOA_L
ClientSampleId :

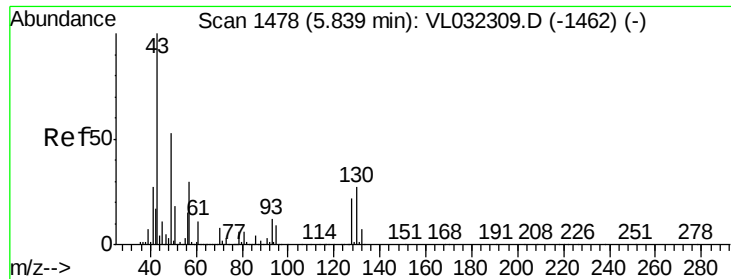
Tot Ion: 84 Resp: 26544
Ion Ratio Lower Upper
84 100
49 153.0 123.4 185.0
51 37.9 38.2 57.2#
86 57.1 47.4 71.2



#23
Vinyl Acetate
Concen: 0.042 ppbv
RT: 5.20 min Scan# 1280
Delta R.T. -0.02 min
Lab File: VL032335.D
Acq: 1 Aug 2018 23:17

Tgt Ion: 43 Resp: 13751
Ion Ratio Lower Upper
43 100
86 20.5 6.3 9.5#
42 43.8 7.0 10.4#
44 9.8 4.6 7.0#

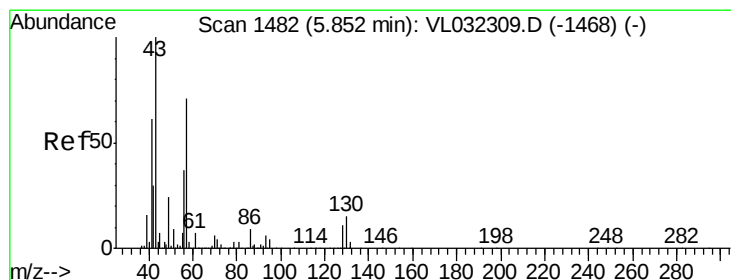
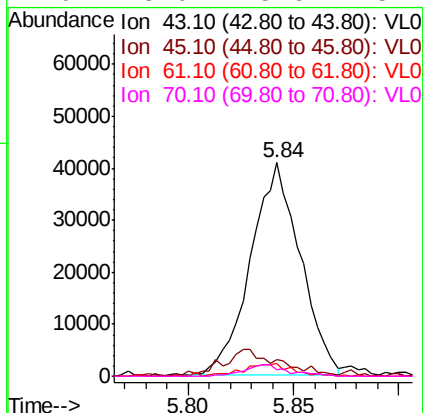
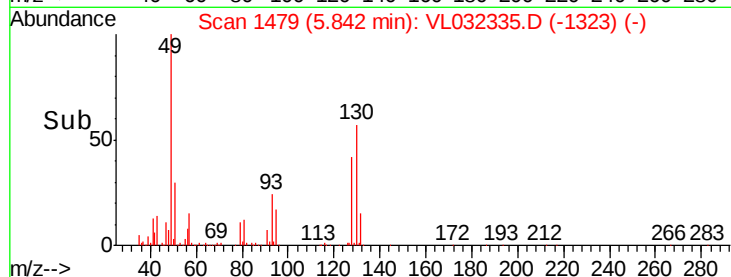
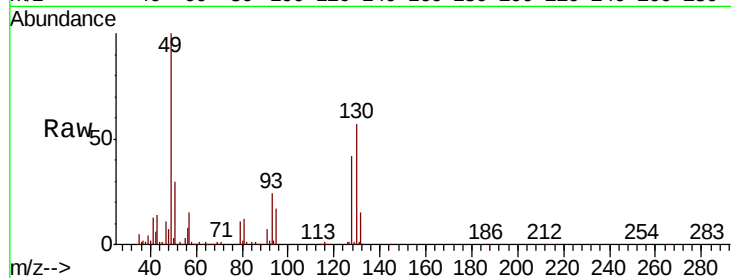




#25
Ethyl Acetate
Concen: 0.165 ppbv
RT: 5.84 min Scan# 1479
Delta R.T. 0.00 min
Lab File: VL032335.D
Acq: 1 Aug 2018 23:17

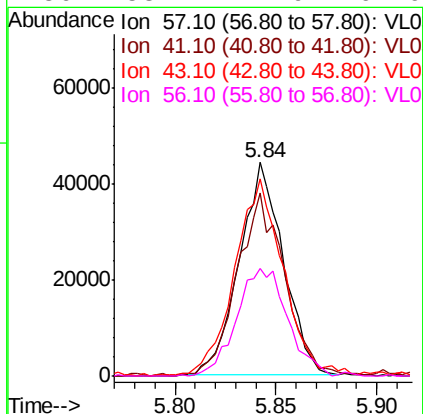
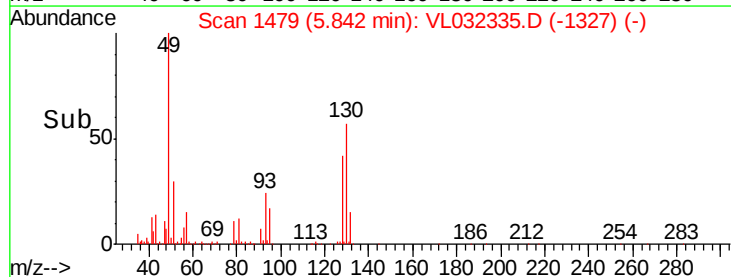
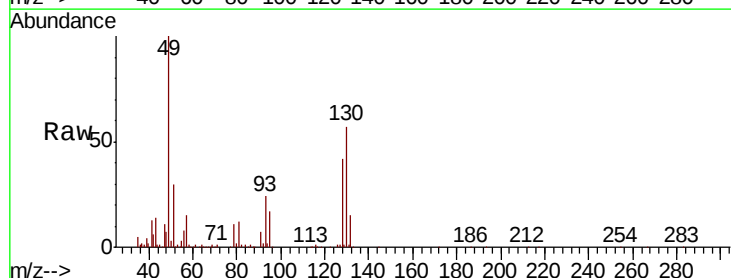
Instrument :
MSVOA_L
ClientSampleId :

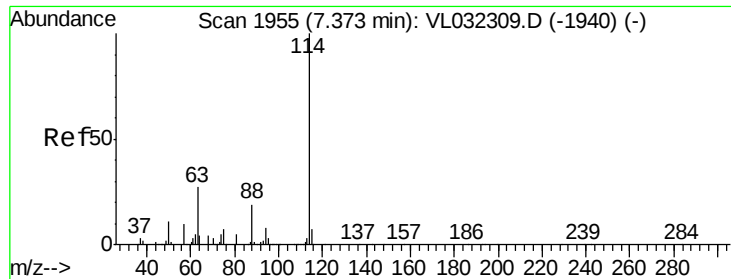
Tot Ion:	43	Resp:	66840
Ion	Ratio	Lower	Upper
43	100		
45	16.0	8.1	12.1#
61	6.5	7.4	11.0#
70	5.0	5.6	8.4#



#26
Hexane
Concen: 0.369 ppbv
RT: 5.84 min Scan# 1479
Delta R.T. -0.01 min
Lab File: VL032335.D
Acq: 1 Aug 2018 23:17

Tgt Ion:	57	Resp:	67749
Ion	Ratio	Lower	Upper
57	100		
41	95.1	68.1	102.1
43	103.0	177.4	266.2#
56	58.7	41.9	62.9

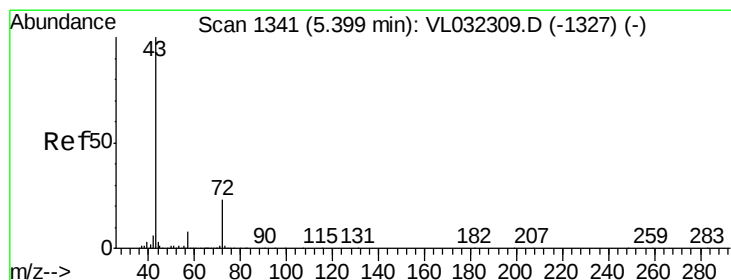
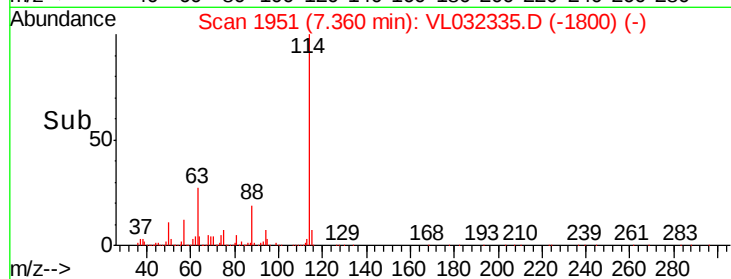
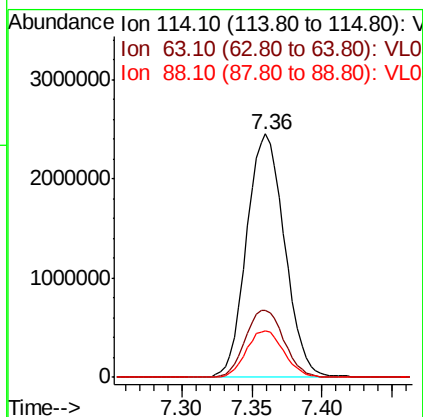
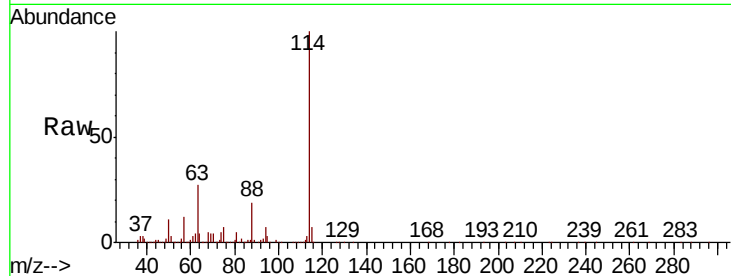




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.36 min Scan# 1951
 Delta R.T. -0.01 min
 Lab File: VL032335.D
 Acq: 1 Aug 2018 23:17

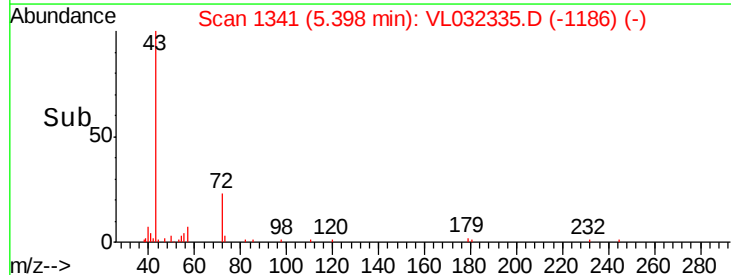
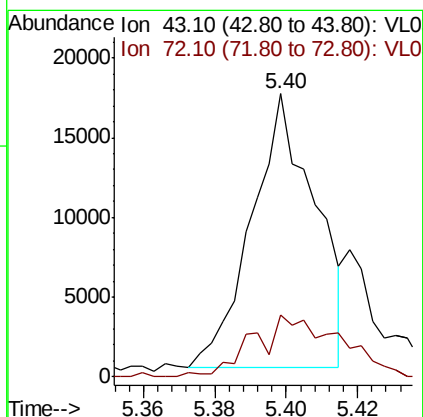
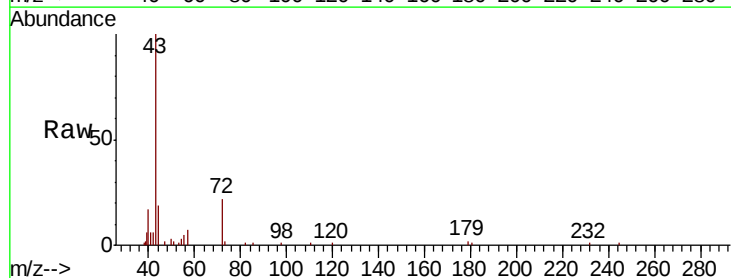
Instrument :
 MSVOA_L
 ClientSampleId :

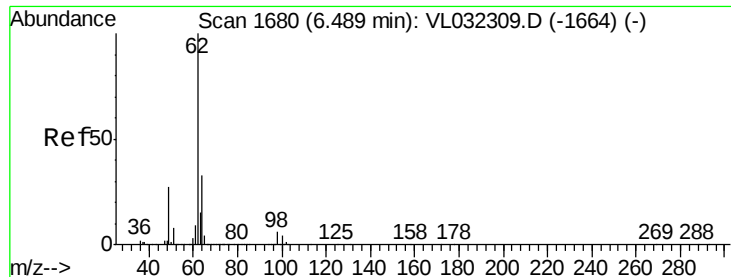
Tot Ion:114 Resp: 4627600
 Ion Ratio Lower Upper
 114 100
 63 28.3 22.4 33.6
 88 19.1 15.3 22.9



#34
 2-Butanone
 Concen: 0.071 ppbv
 RT: 5.40 min Scan# 1341
 Delta R.T. -0.00 min
 Lab File: VL032335.D
 Acq: 1 Aug 2018 23:17

Tgt Ion: 43 Resp: 21136
 Ion Ratio Lower Upper
 43 100
 72 31.0 17.4 26.2#





#37

1,2-Dichloroethane

Concen: 0.056 ppbv

RT: 6.47 min Scan# 1675

Delta R.T. -0.02 min

Lab File: VL032335.D

Acq: 1 Aug 2018 23:17

Instrument :

MSVOA_L

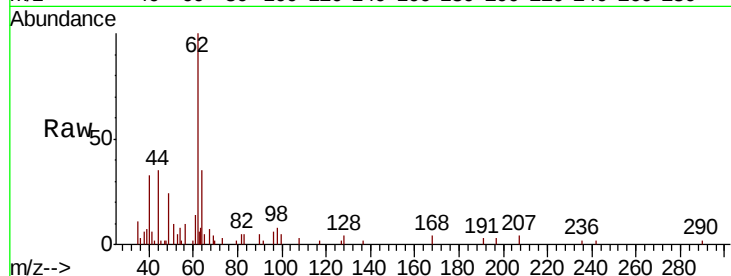
ClientSampleId :

Tot Ion: 62 Resp: 13240

Ion Ratio Lower Upper

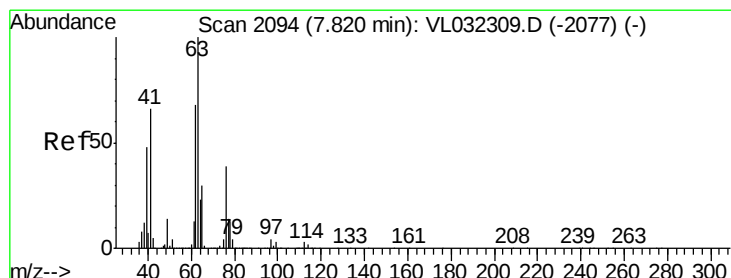
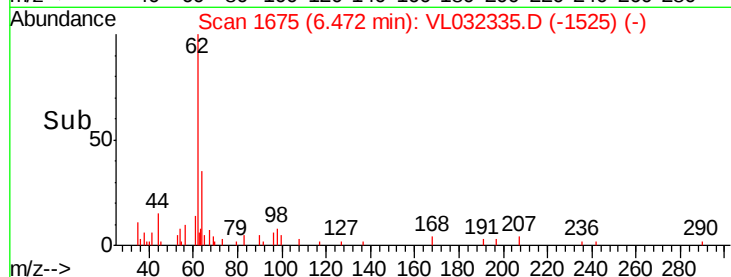
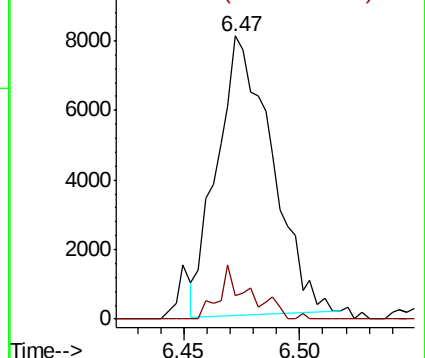
62 100

98 10.7 5.1 7.7#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#39

1,2-Dichloropropane

Concen: 6.322 ppbv

RT: 7.36 min Scan# 1950

Delta R.T. -0.46 min

Lab File: VL032335.D

Acq: 1 Aug 2018 23:17

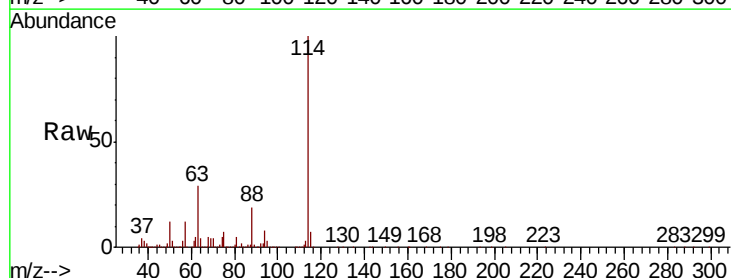
Tgt Ion: 63 Resp: 1297491

Ion Ratio Lower Upper

63 100

41 0.0 52.5 78.7#

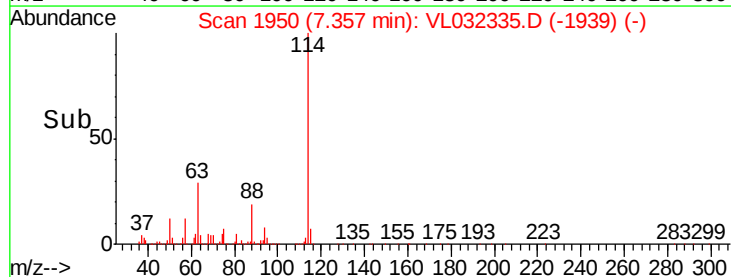
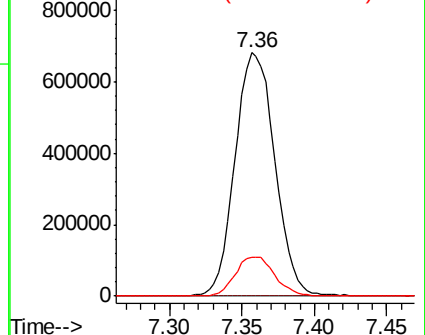
62 16.0 54.6 81.8#

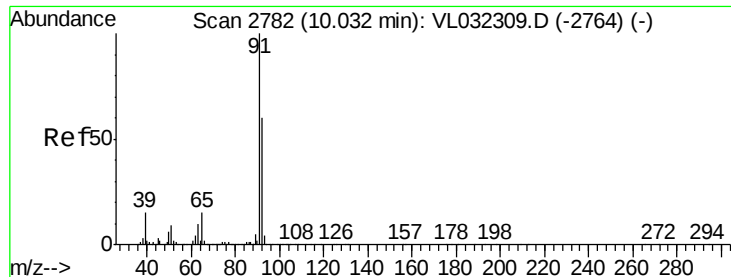


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#53

Toluene

Concen: 0.038 ppbv

RT: 10.02 min Scan# 2779

Delta R.T. -0.01 min

Lab File: VL032335.D

Acq: 1 Aug 2018 23:17

Instrument :

MSVOA_L

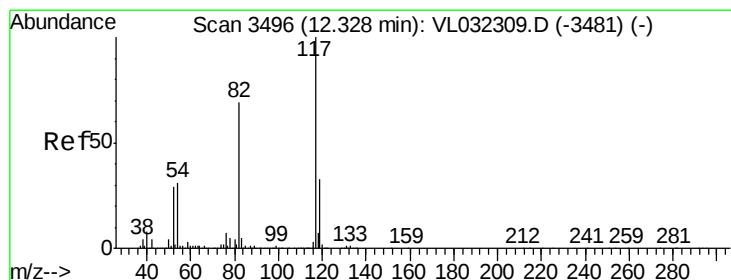
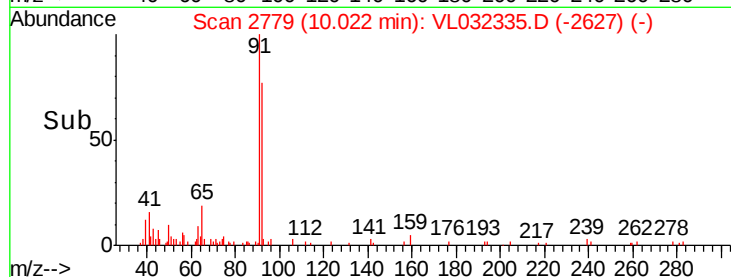
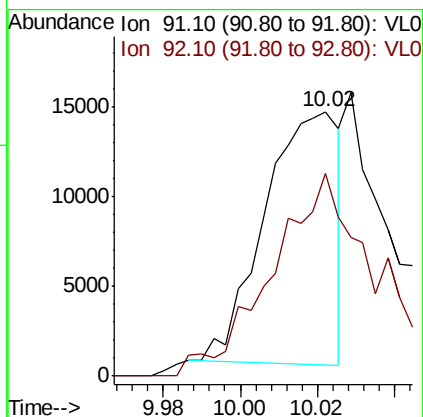
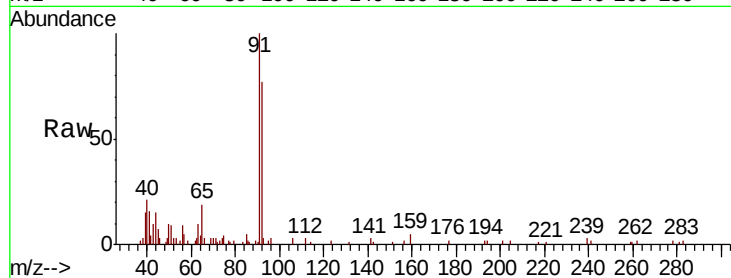
ClientSampleId :

Tot Ion: 91 Resp: 18687

Ion Ratio Lower Upper

91 100

92 112.5 48.6 72.8#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.32 min Scan# 3493

Delta R.T. -0.01 min

Lab File: VL032335.D

Acq: 1 Aug 2018 23:17

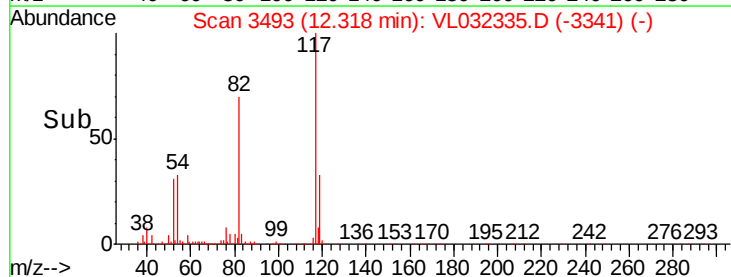
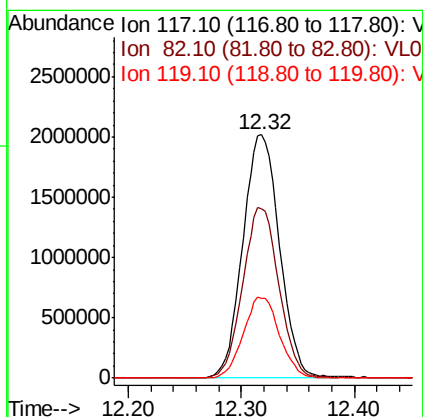
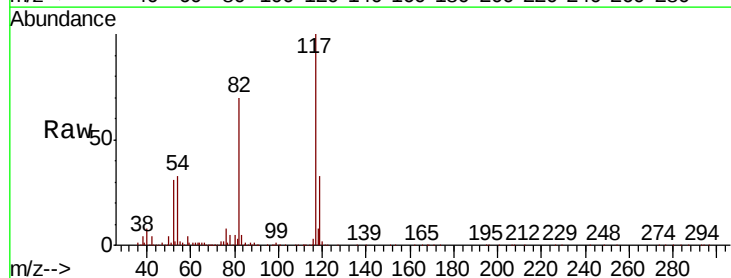
Tgt Ion: 117 Resp: 4551232

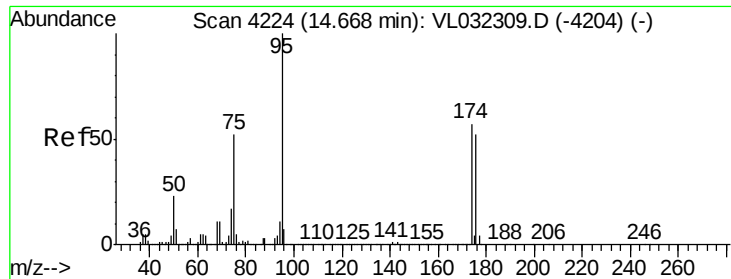
Ion Ratio Lower Upper

117 100

82 69.6 52.6 78.8

119 33.1 25.7 38.5





#68

1-Bromo-4-Fluorobenzene

Concen: 10.328 ppbv

RT: 14.66 min Scan# 4220

Delta R.T. -0.01 min

Lab File: VL032335.D

Acq: 1 Aug 2018 23:17

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 3648682

Ion Ratio Lower Upper

95 100

174 55.3 45.5 68.3

175 4.1 3.3 4.9

