

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112018\
 Data File : VL032794.D
 Acq On : 21 Nov 2018 1:17
 Operator : SY/AP
 Sample : J5998-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 21 04:09:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1268357	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3268174	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2959576	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2261188	10.21	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.10%

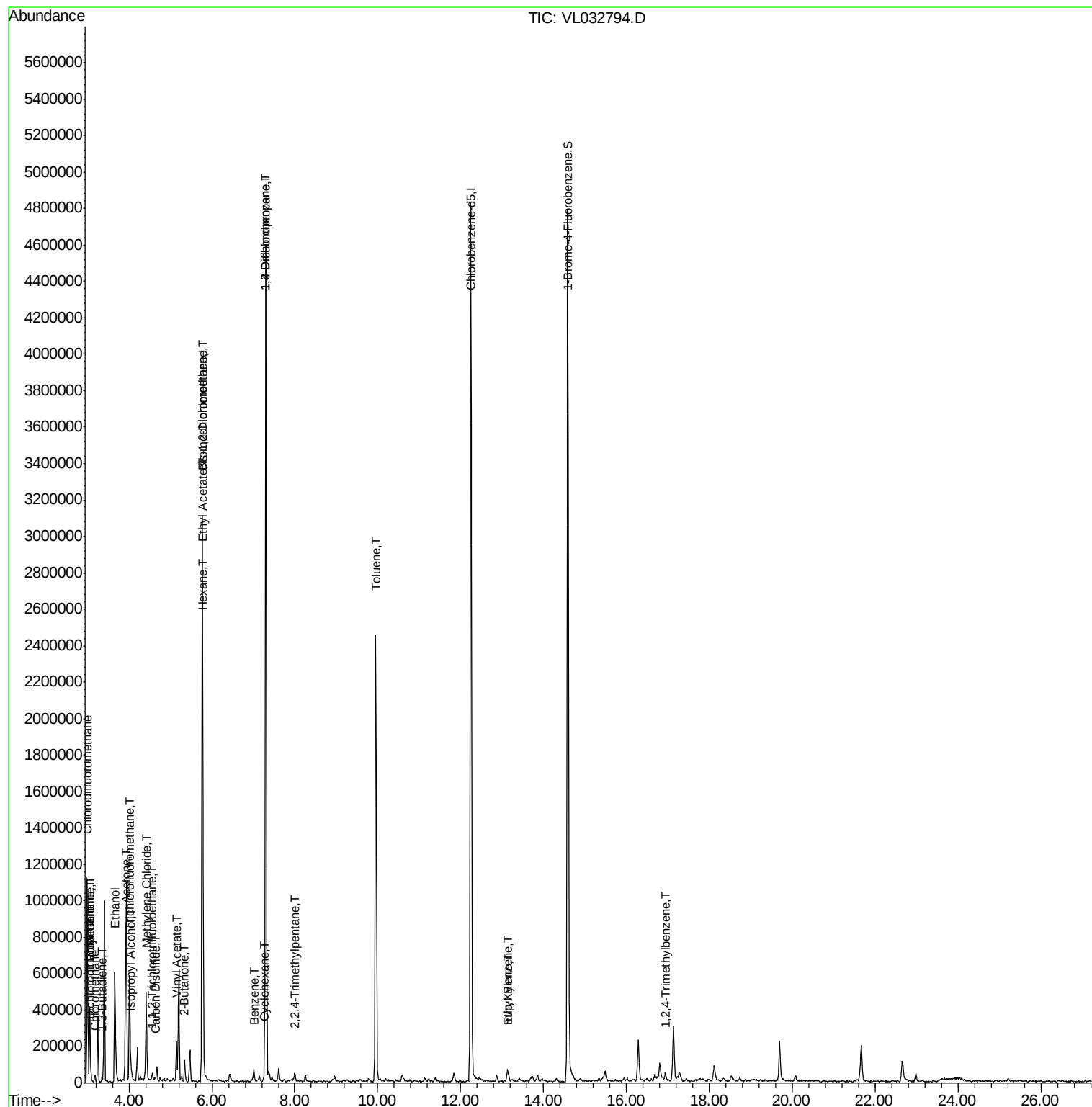
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	39543	0.217	ppbv 98
3) Chlorodifluoromethane	2.99	51	647929	6.443	ppbv # 59
4) Chloromethane	3.18	50	28230	0.506	ppbv # 87
5) Vinyl Chloride	3.05	62	1840	0.031	ppbv # 67
9) Propene	3.06	41	83866	2.084	ppbv # 68
11) Trichlorofluoromethane	4.01	101	375255	2.184	ppbv 95
12) 1,1,2-Trichlorotrifluoroet	4.56	101	12463	0.089	ppbv 93
13) Ethanol	3.66	45	646799	49.072	ppbv 99
15) Acetone	3.91	43	802552	6.929	ppbv # 83
16) 1,3-Butadiene	3.36	39	2688	0.060	ppbv # 6
19) Isopropyl Alcohol	4.04	45	104354	1.352	ppbv # 90
20) Methylene Chloride	4.42	84	163777	2.731	ppbv 94
23) Vinyl Acetate	5.15	43	92070	0.436	ppbv # 16
25) Ethyl Acetate	5.79	43	193957	0.718	ppbv # 91
26) Hexane	5.79	57	169320	1.409	ppbv # 58
27) Carbon Disulfide	4.63	76	6048	0.040	ppbv # 1
30) Cyclohexane	7.25	84	5921	0.056	ppbv # 9
31) cis-1,2-Dichloroethene	5.77	61	5212	0.043	ppbv # 32
34) 2-Butanone	5.35	43	114685	0.677	ppbv 99
36) Benzene	7.01	78	46009	0.177	ppbv 97
39) 1,2-Dichloropropane	7.30	63	802847	8.097	ppbv # 23
44) 2,2,4-Trimethylpentane	8.00	57	23626	0.054	ppbv # 38
53) Toluene	9.95	91	1815772	6.688	ppbv 98
58) Ethyl Benzene	13.13	91	24083	0.068	ppbv 93
59) m/p-Xylene	13.13	91	24083	0.076	ppbv # 1
74) 1,2,4-Trimethylbenzene	16.93	105	11124	0.030	ppbv # 60

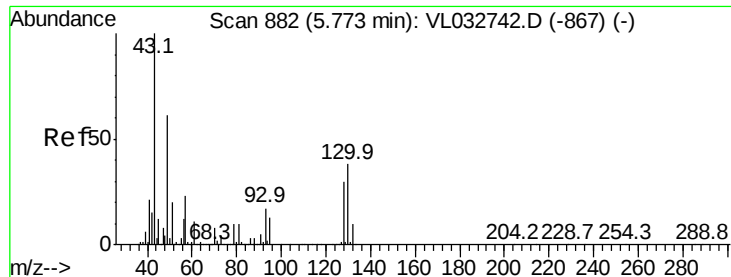
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 14 07:00:23 2018
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.01 min

Lab File: VL032794.D

Acq: 21 Nov 2018 1:17

Instrument :

MSVOA_L

ClientSampleId :

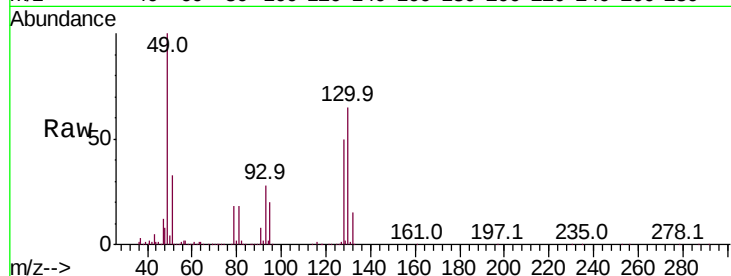
Tot Ion: 49 Resp: 1268357

Ion Ratio Lower Upper

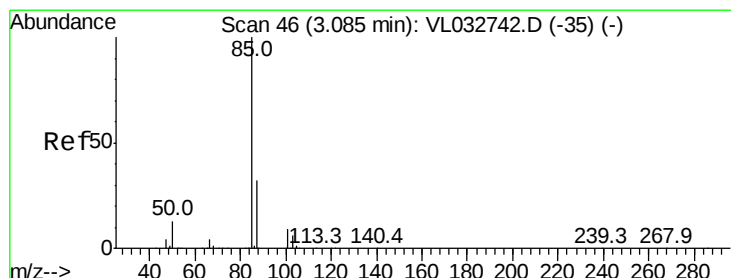
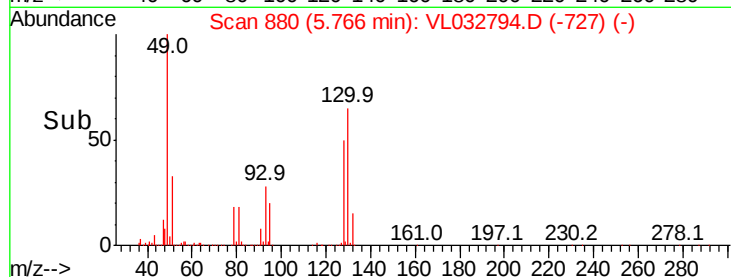
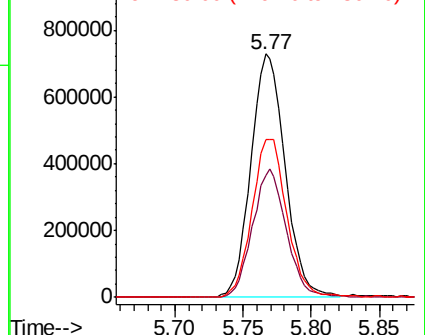
49 100

128 52.5 24.9 74.6

130 66.8 31.4 94.2



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: 0.217 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032794.D

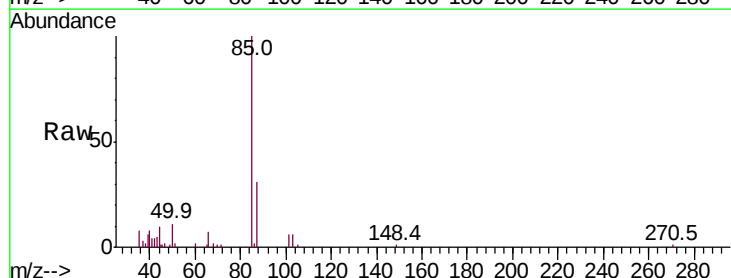
Acq: 21 Nov 2018 1:17

Tgt Ion: 85 Resp: 39543

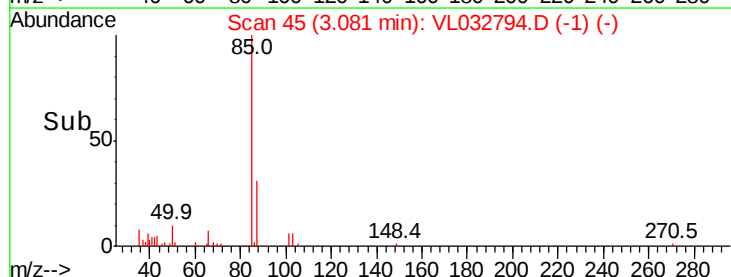
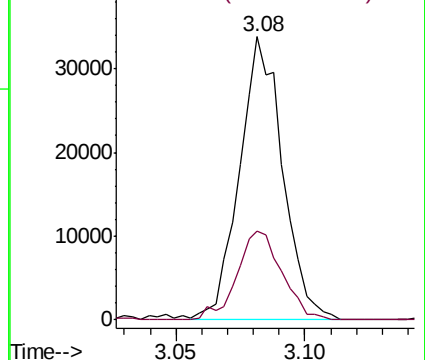
Ion Ratio Lower Upper

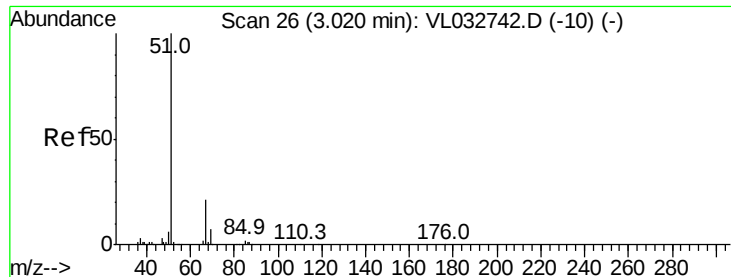
85 100

87 31.4 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0

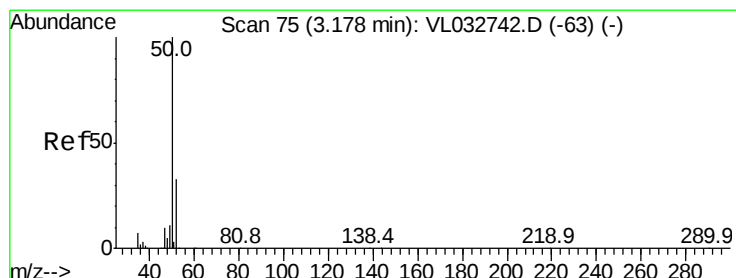
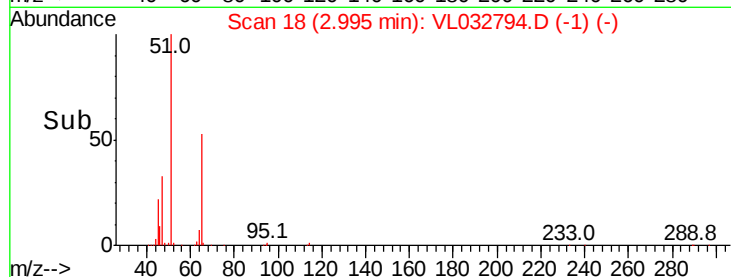
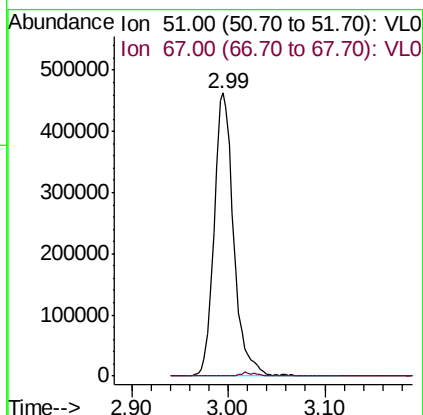
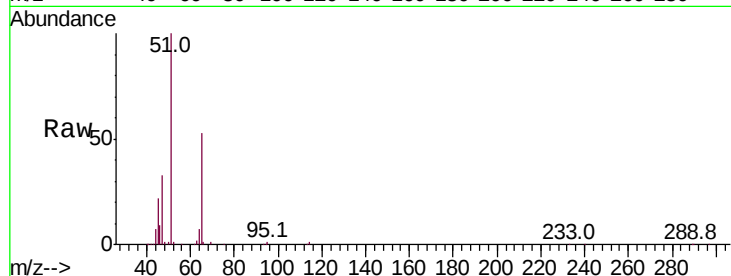




#3
 Chlorodifluoromethane
 Concen: 6.443 ppbv
 RT: 2.99 min Scan# 18
 Delta R.T. -0.03 min
 Lab File: VL032794.D
 Acq: 21 Nov 2018 1:17

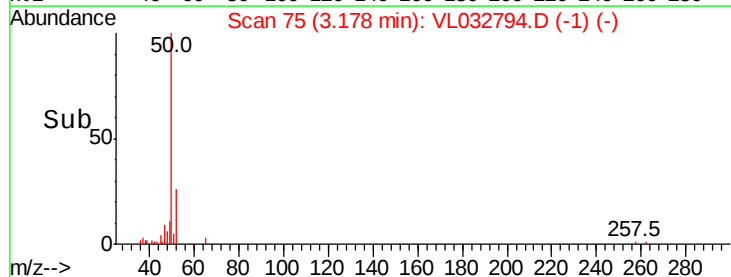
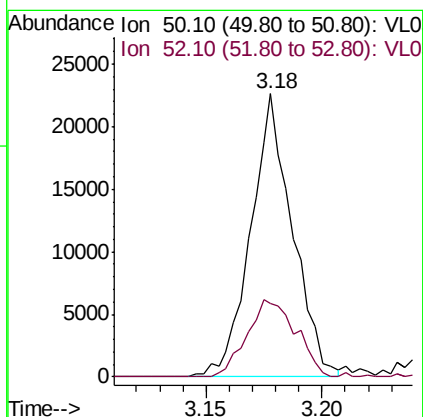
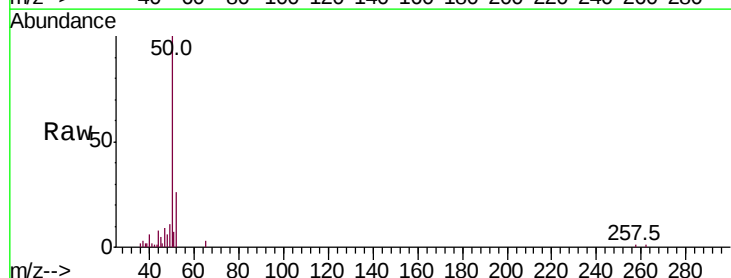
Instrument :
 MSVOA_L
 ClientSampleId :

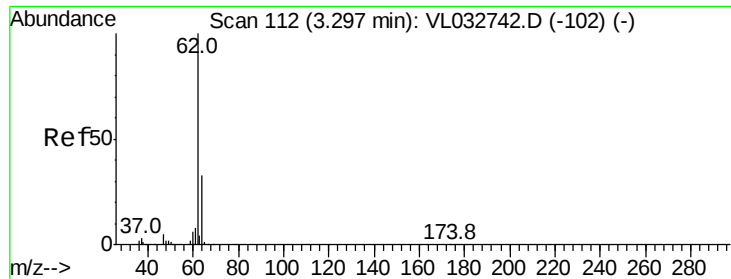
Tot Ion: 51 Resp: 647929
 Ion Ratio Lower Upper
 51 100
 67 1.1 16.1 24.1#



#4
 Chloromethane
 Concen: 0.506 ppbv
 RT: 3.18 min Scan# 75
 Delta R.T. -0.00 min
 Lab File: VL032794.D
 Acq: 21 Nov 2018 1:17

Tgt Ion: 50 Resp: 28230
 Ion Ratio Lower Upper
 50 100
 52 25.8 26.6 40.0#





#5

Vinyl Chloride

Concen: 0.031 ppbv

RT: 3.05 min Scan# 35

Delta R.T. -0.25 min

Lab File: VL032794.D

Acq: 21 Nov 2018 1:17

Instrument :

MSVOA_L

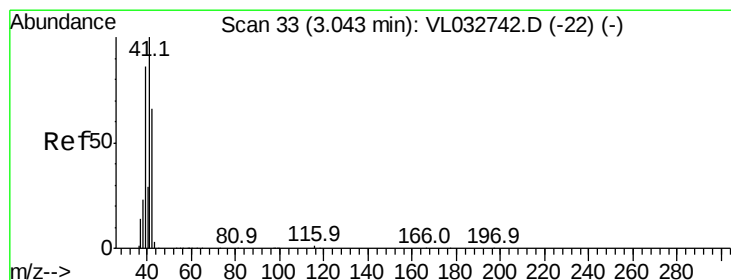
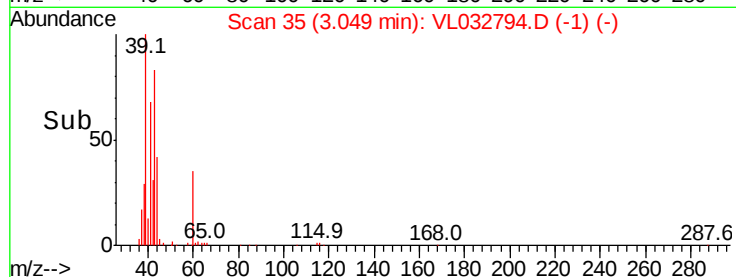
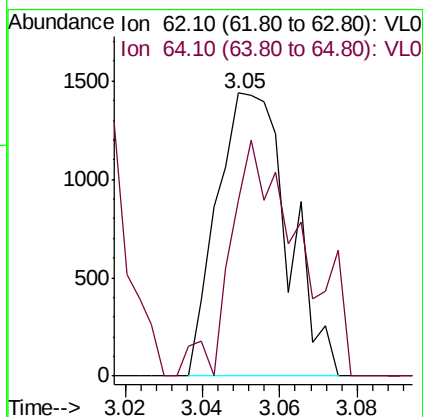
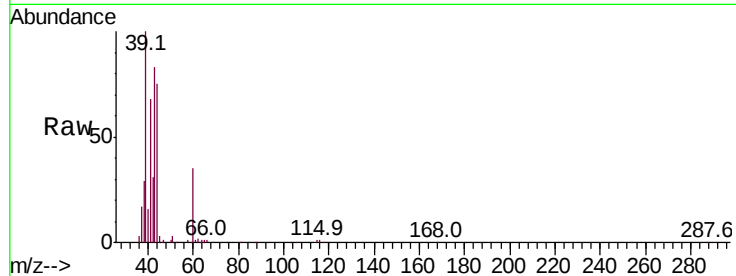
ClientSampleId :

Tot Ion: 62 Resp: 1840

Ion Ratio Lower Upper

62 100

64 51.7 26.2 39.4#



#9

Propene

Concen: 2.084 ppbv

RT: 3.06 min Scan# 37

Delta R.T. 0.01 min

Lab File: VL032794.D

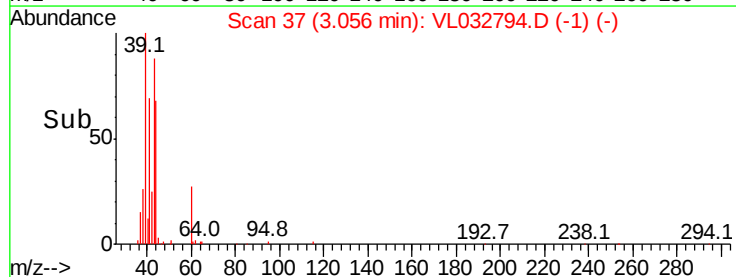
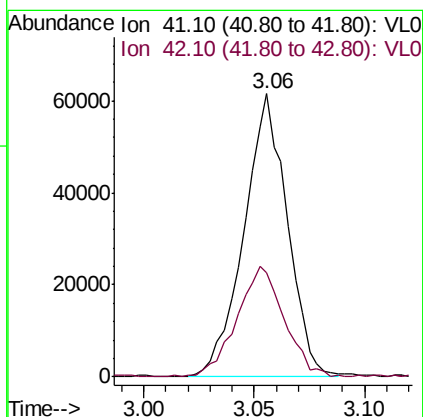
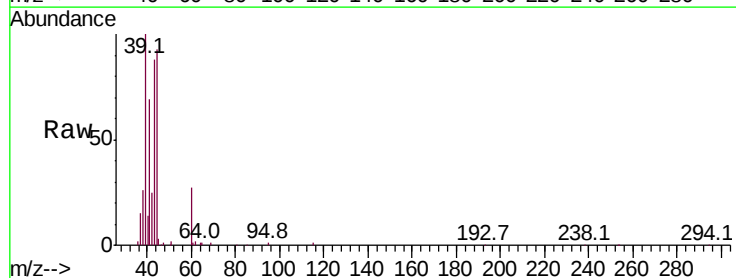
Acq: 21 Nov 2018 1:17

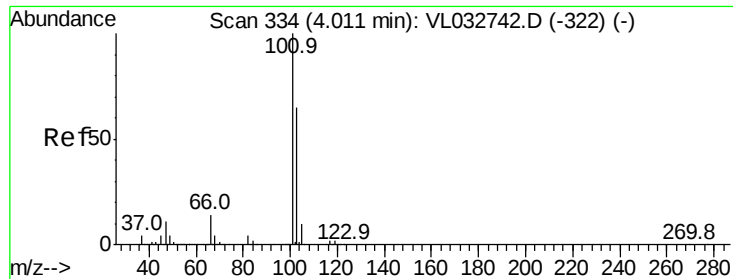
Tgt Ion: 41 Resp: 83866

Ion Ratio Lower Upper

41 100

42 43.0 55.0 82.6#

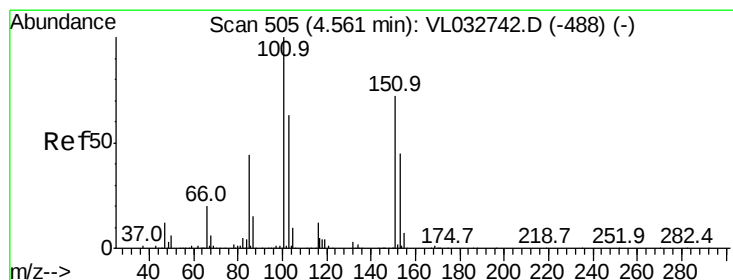
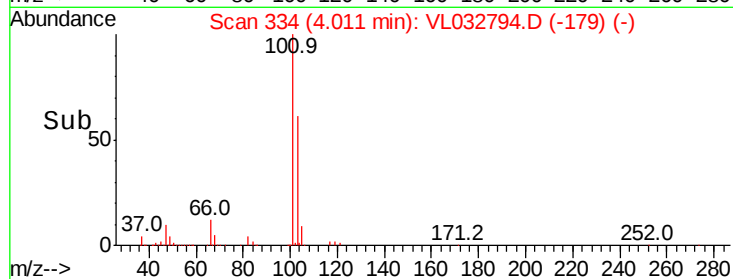
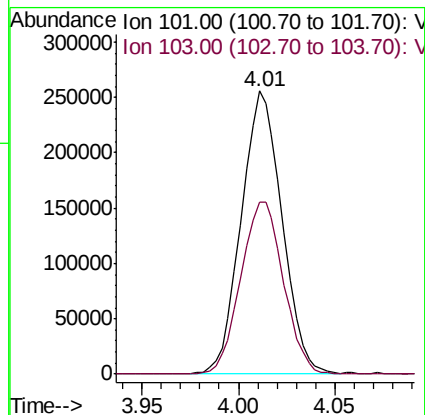
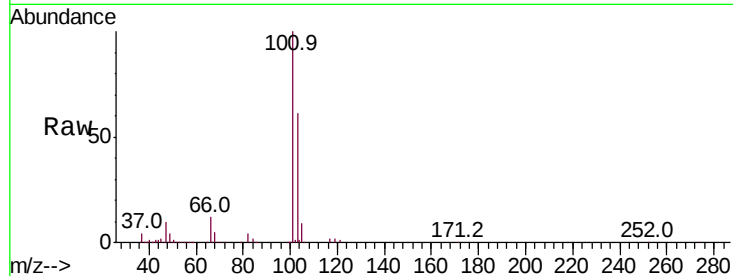




#11
 Trichlorofluoromethane
 Concen: 2.184 ppbv
 RT: 4.01 min Scan# 334
 Delta R.T. -0.00 min
 Lab File: VL032794.D
 Acq: 21 Nov 2018 1:17

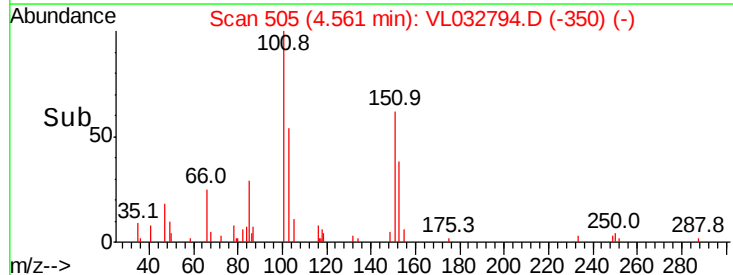
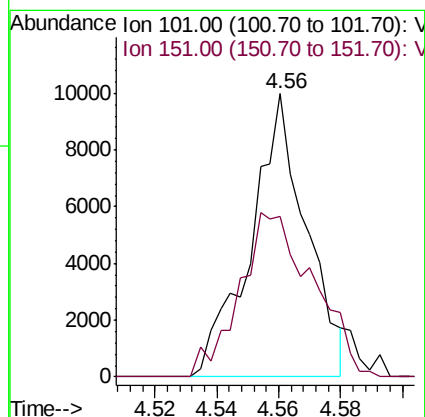
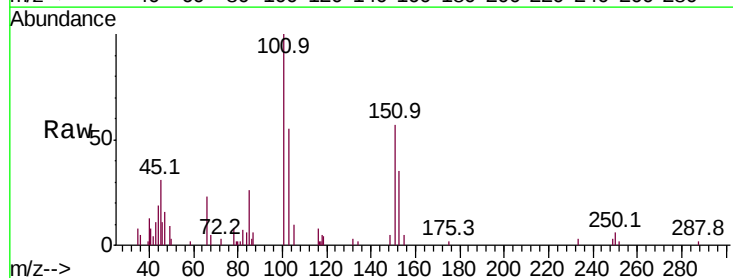
Instrument :
 MSVOA_L
 ClientSampled :

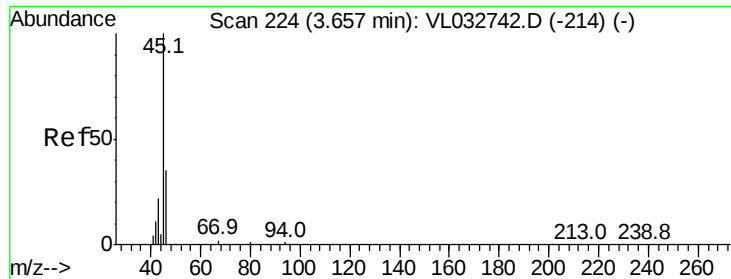
Tot Ion:101 Resp: 375255
 Ion Ratio Lower Upper
 101 100
 103 60.7 51.6 77.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.089 ppbv
 RT: 4.56 min Scan# 505
 Delta R.T. -0.00 min
 Lab File: VL032794.D
 Acq: 21 Nov 2018 1:17

Tgt Ion:101 Resp: 12463
 Ion Ratio Lower Upper
 101 100
 151 76.9 56.7 85.1





#13

Ethanol

Concen: 49.072 ppbv

RT: 3.66 min Scan# 225

Delta R.T. 0.00 min

Lab File: VL032794.D

Acq: 21 Nov 2018 1:17

Instrument :

MSVOA_L

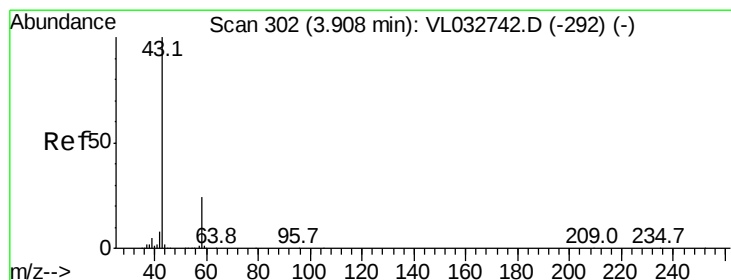
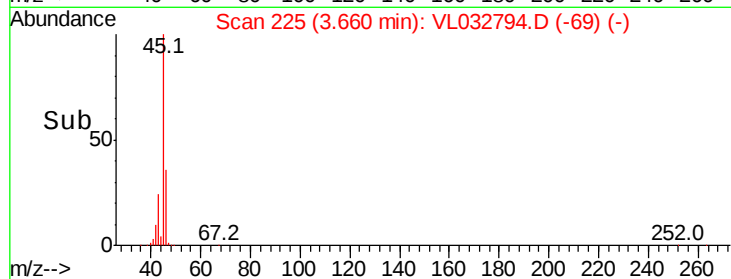
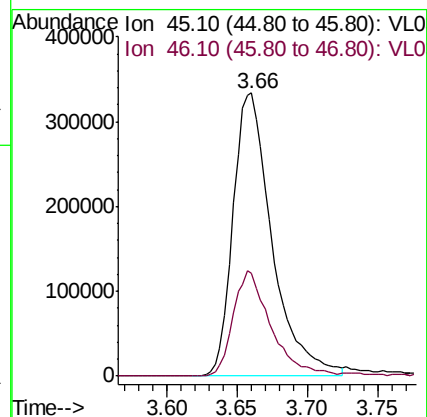
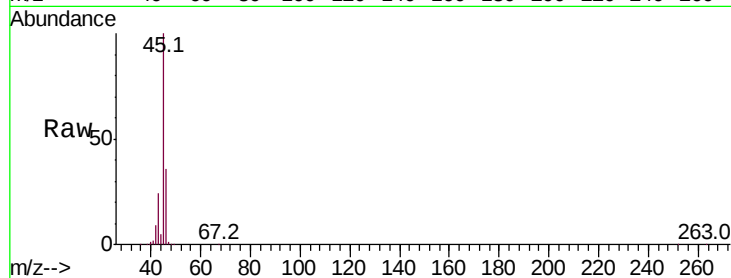
ClientSampleId :

Tot Ion: 45 Resp: 646799

Ion Ratio Lower Upper

45 100

46 36.9 14.5 57.9



#15

Acetone

Concen: 6.929 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.00 min

Lab File: VL032794.D

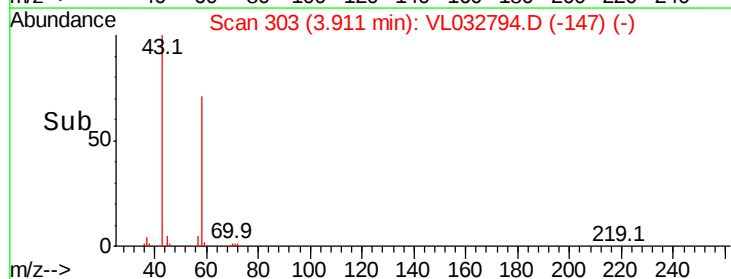
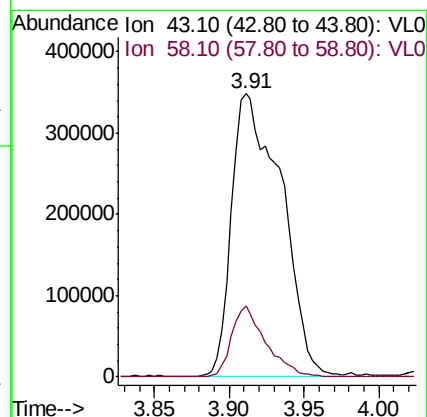
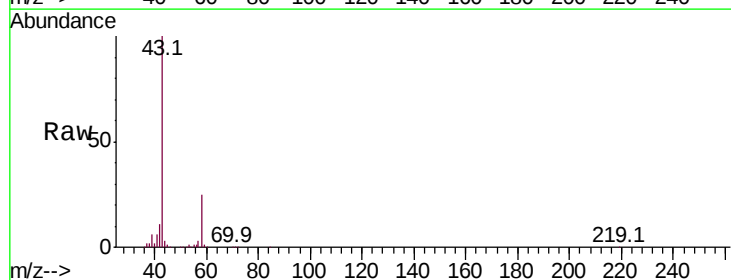
Acq: 21 Nov 2018 1:17

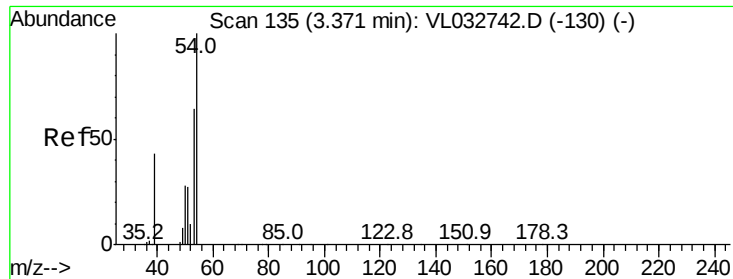
Tgt Ion: 43 Resp: 802552

Ion Ratio Lower Upper

43 100

58 17.7 21.1 31.7#





#16

1,3-Butadiene

Concen: 0.060 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.01 min

Lab File: VL032794.D

Acq: 21 Nov 2018 1:17

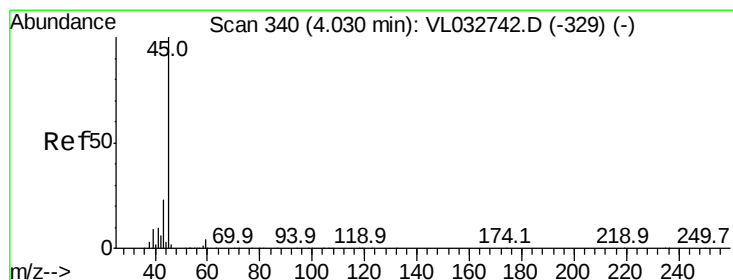
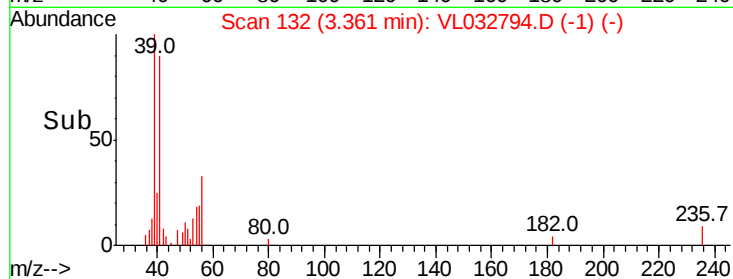
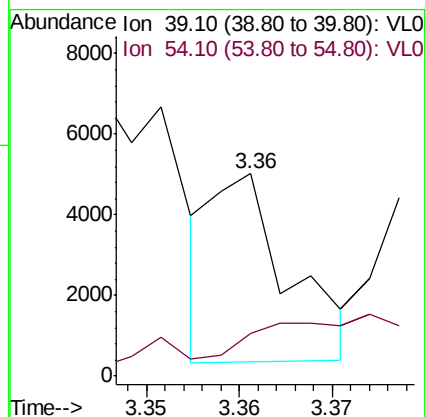
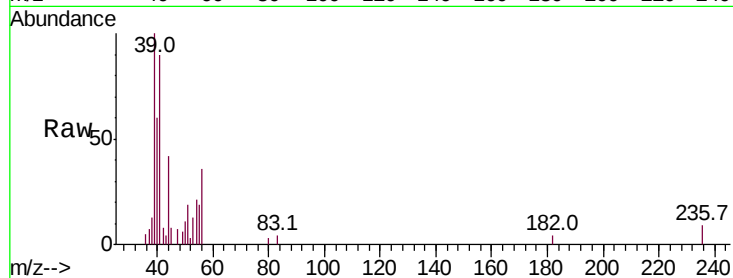
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 39 Resp: 2688

Ion Ratio Lower Upper

39 100

54 0.0 68.9 103.3#



#19

Isopropyl Alcohol

Concen: 1.352 ppbv

RT: 4.04 min Scan# 344

Delta R.T. 0.01 min

Lab File: VL032794.D

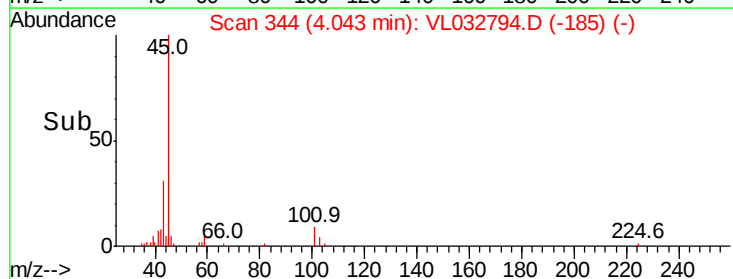
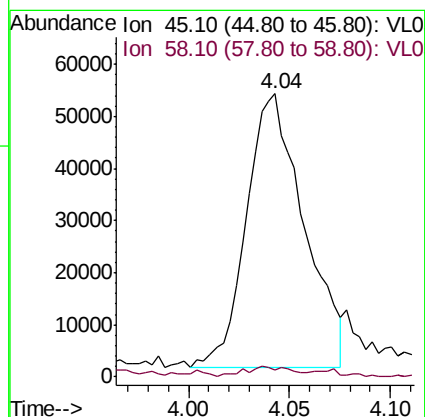
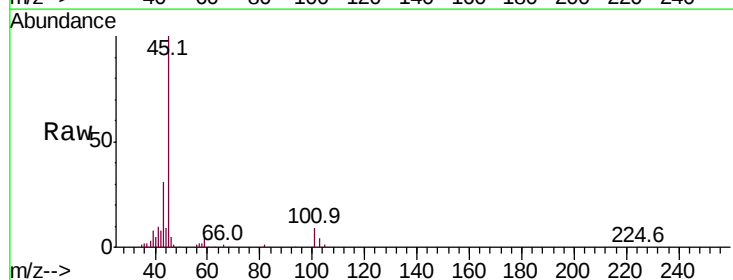
Acq: 21 Nov 2018 1:17

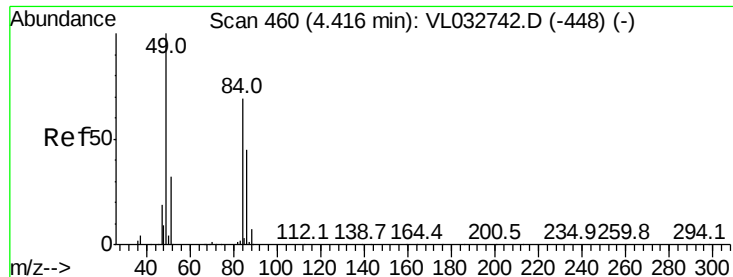
Tgt Ion: 45 Resp: 104354

Ion Ratio Lower Upper

45 100

58 5.5 1.4 2.0#

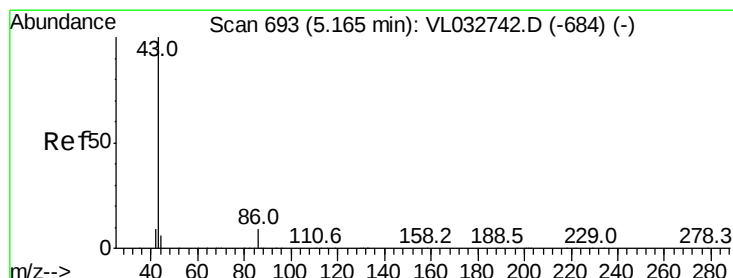
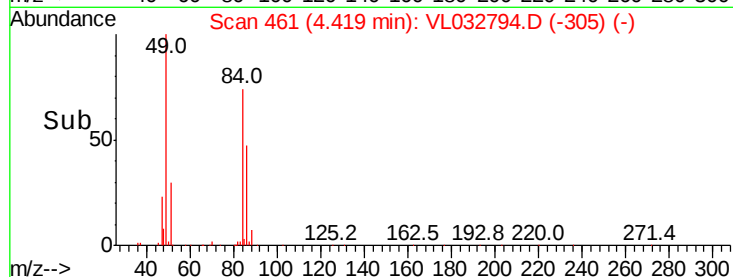
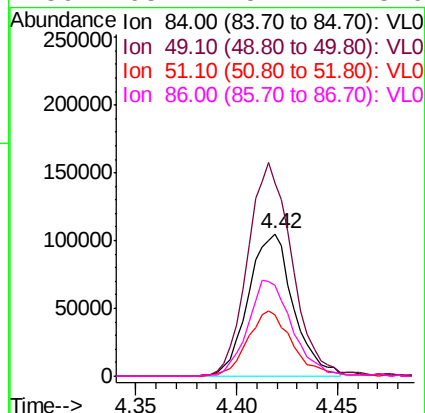
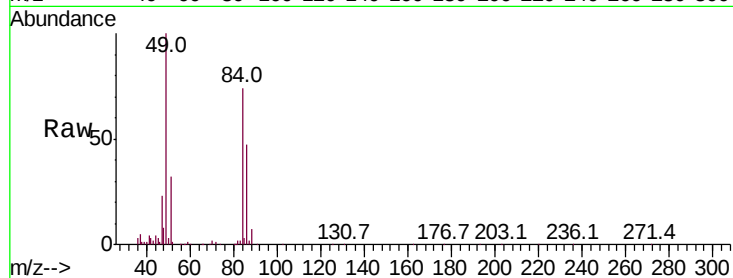




#20
Methylene Chloride
Concen: 2.731 ppbv
RT: 4.42 min Scan# 461
Delta R.T. 0.00 min
Lab File: VL032794.D
Acq: 21 Nov 2018 1:17

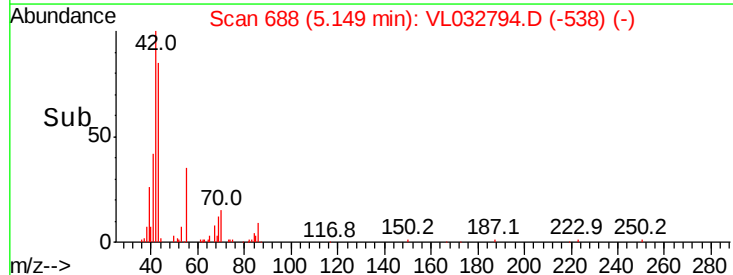
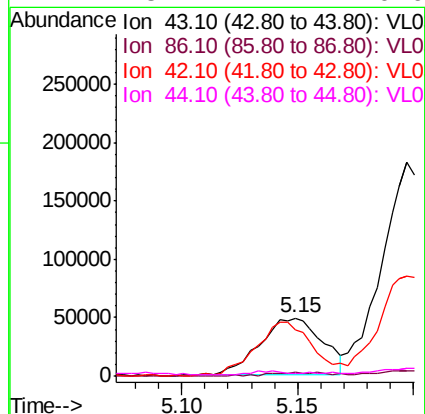
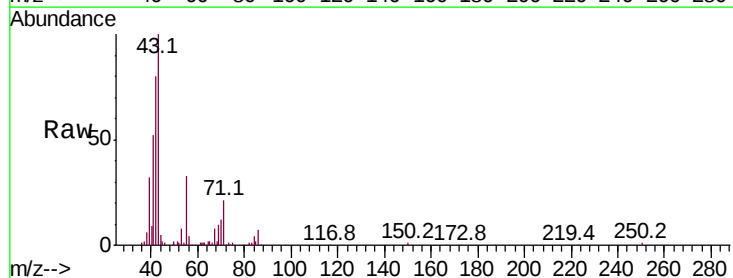
Instrument :
MSVOA_L
ClientSampleId :

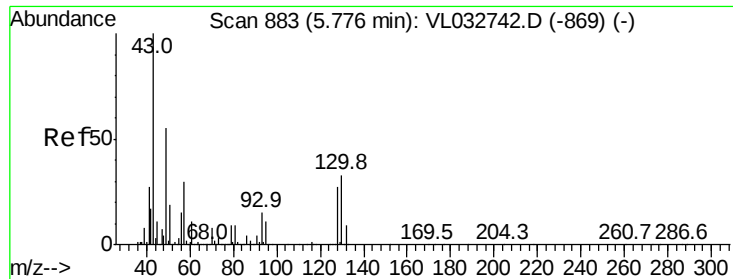
Tot Ion:	84	Resp:	163777
Ion	Ratio	Lower	Upper
84	100		
49	135.6	115.8	173.6
51	42.4	36.9	55.3
86	63.7	52.4	78.6



#23
Vinyl Acetate
Concen: 0.436 ppbv
RT: 5.15 min Scan# 688
Delta R.T. -0.02 min
Lab File: VL032794.D
Acq: 21 Nov 2018 1:17

Tgt Ion:	43	Resp:	92070
Ion	Ratio	Lower	Upper
43	100		
86	7.0	6.2	9.4
42	80.6	7.8	11.6#
44	3.1	4.4	6.6#

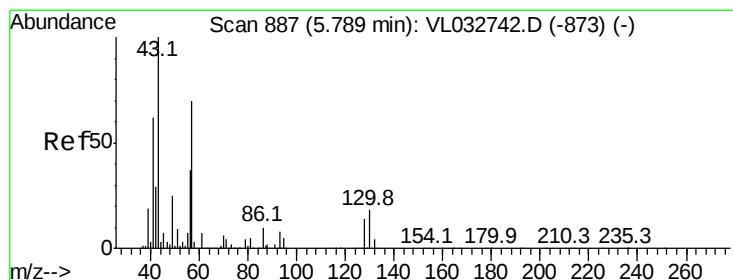
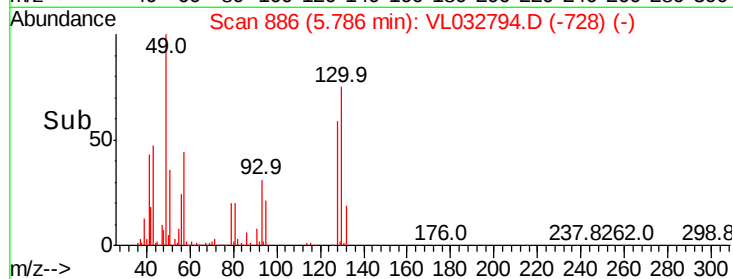
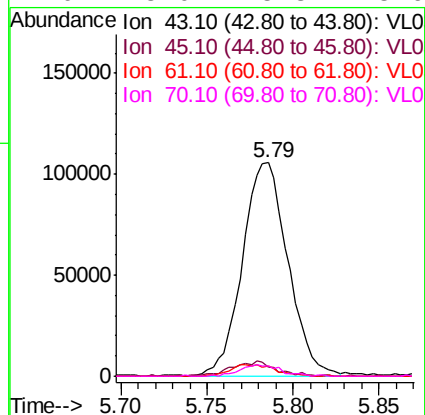
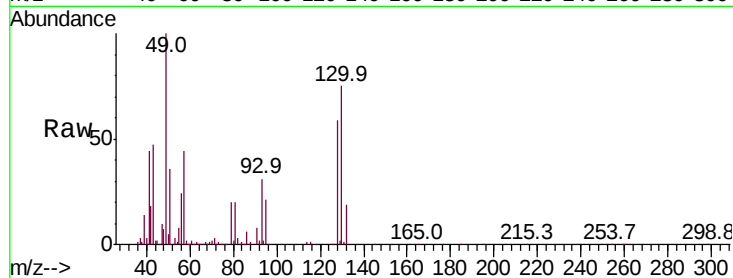




#25
Ethyl Acetate
Concen: 0.718 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.01 min
Lab File: VL032794.D
Acq: 21 Nov 2018 1:17

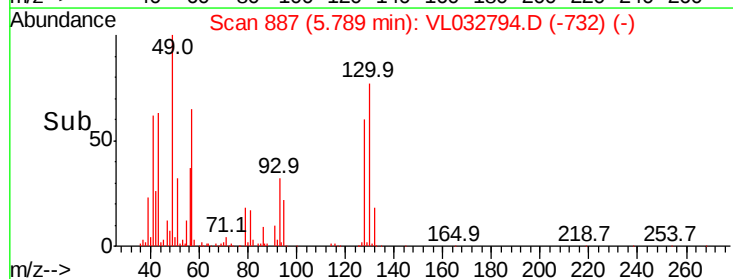
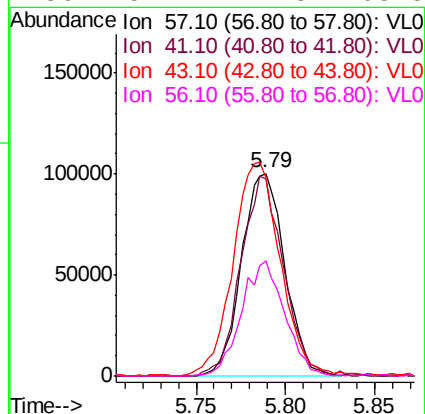
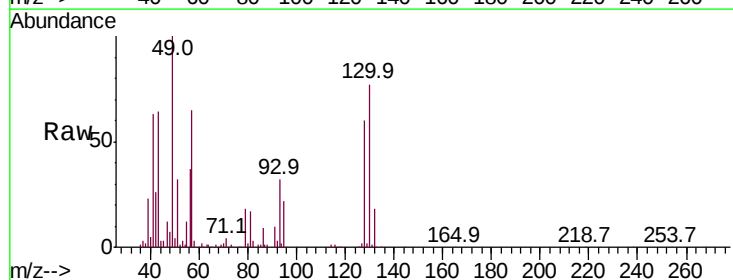
Instrument :
MSVOA_L
ClientSampleId :

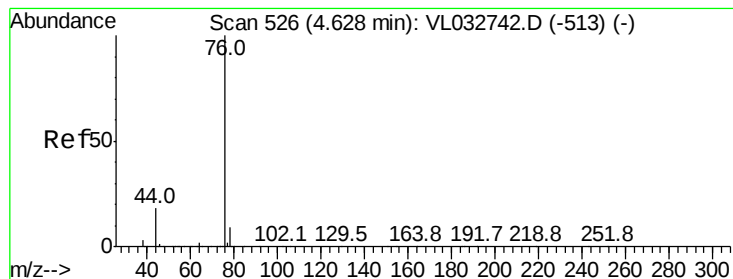
Tot Ion:	43	Resp:	193957
Ion	Ratio	Lower	Upper
43	100		
45	7.2	7.9	11.9#
61	5.5	7.8	11.6#
70	5.0	5.8	8.6#



#26
Hexane
Concen: 1.409 ppbv
RT: 5.79 min Scan# 887
Delta R.T. -0.00 min
Lab File: VL032794.D
Acq: 21 Nov 2018 1:17

Tgt Ion:	57	Resp:	169320
Ion	Ratio	Lower	Upper
57	100		
41	97.6	70.3	105.5
43	116.2	174.0	261.0#
56	57.1	42.3	63.5





#27

Carbon Disulfide

Concen: 0.040 ppbv

RT: 4.63 min Scan# 526

Delta R.T. -0.00 min

Lab File: VL032794.D

Acq: 21 Nov 2018 1:17

Instrument :

MSVOA_L

ClientSampleId :

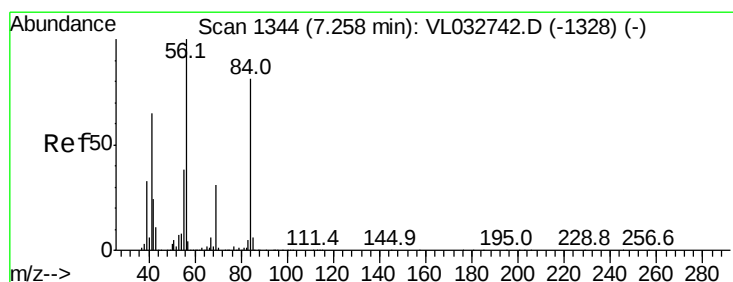
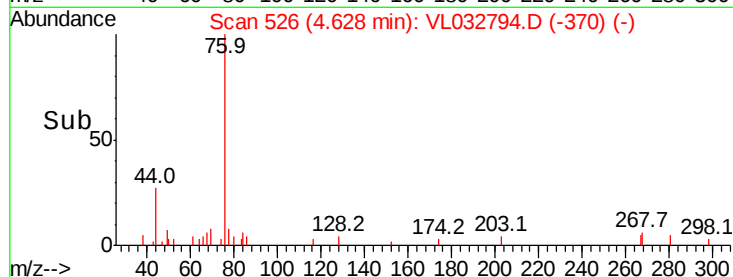
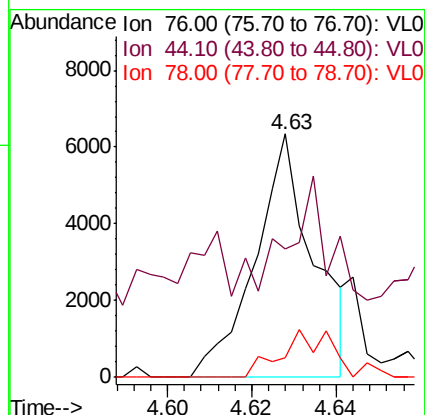
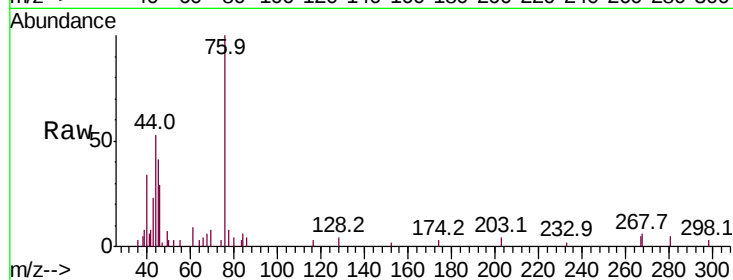
Tot Ion: 76 Resp: 6048

Ion Ratio Lower Upper

76 100

44 156.9 14.4 21.6#

78 18.0 7.7 11.5#



#30

Cyclohexane

Concen: 0.056 ppbv

RT: 7.25 min Scan# 1343

Delta R.T. -0.00 min

Lab File: VL032794.D

Acq: 21 Nov 2018 1:17

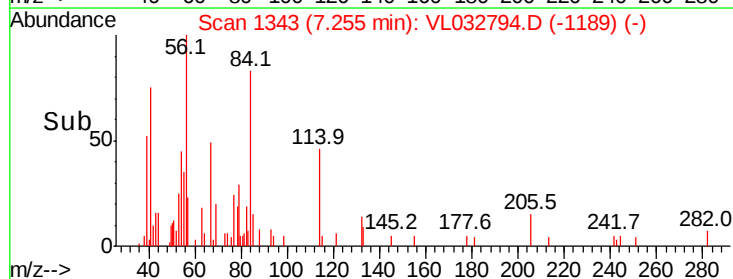
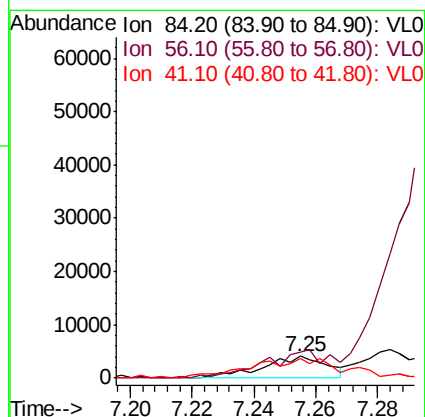
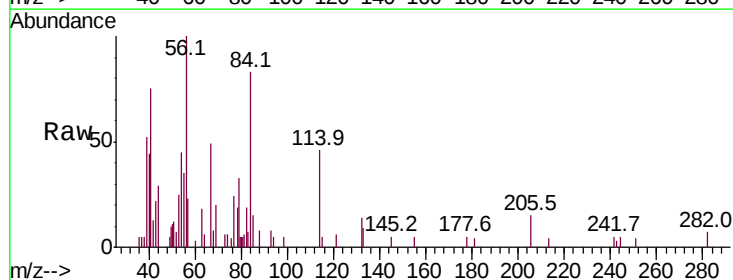
Tgt Ion: 84 Resp: 5921

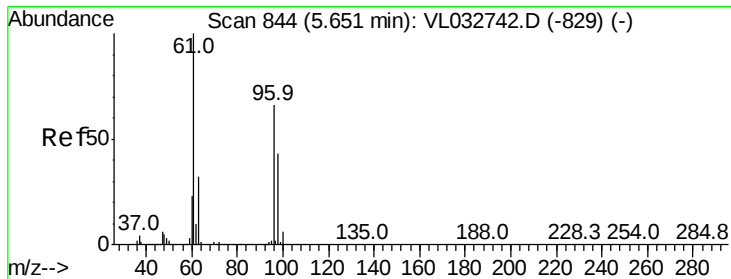
Ion Ratio Lower Upper

84 100

56 0.0 105.0 157.4#

41 132.6 65.3 97.9#





#31

cis-1,2-Dichloroethene

Concen: 0.043 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.12 min

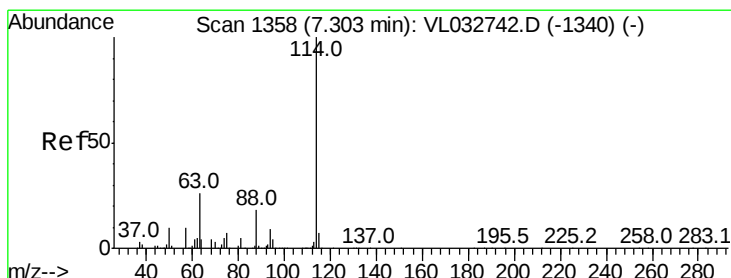
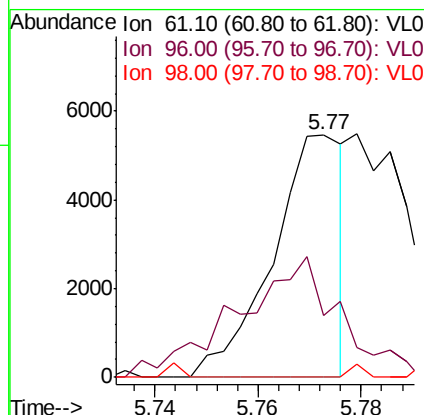
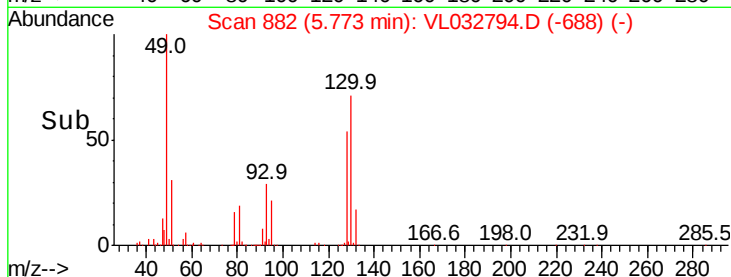
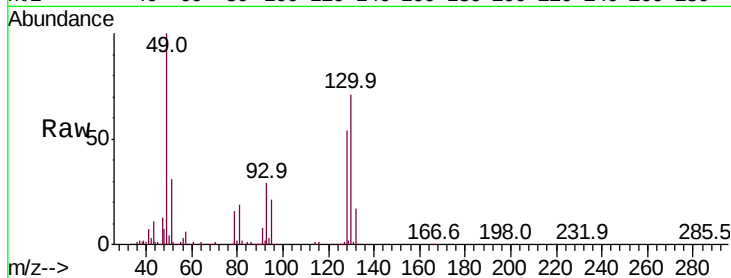
Lab File: VL032794.D

Acq: 21 Nov 2018 1:17

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 61 Resp: 5212

Ion	Ratio	Lower	Upper
61	100		
96	11.4	53.2	79.8#
98	0.0	34.4	51.6#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.30 min Scan# 1357

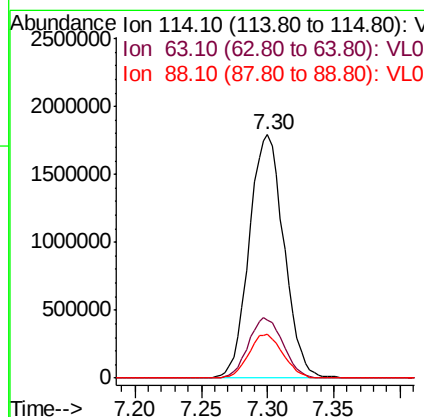
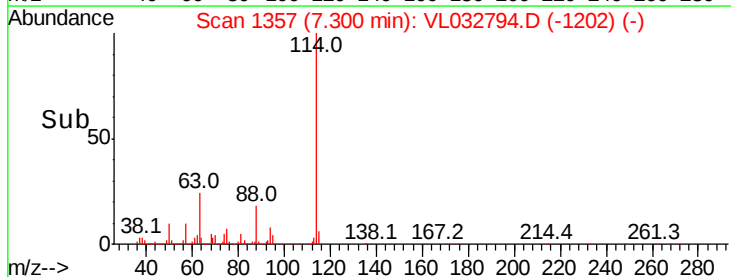
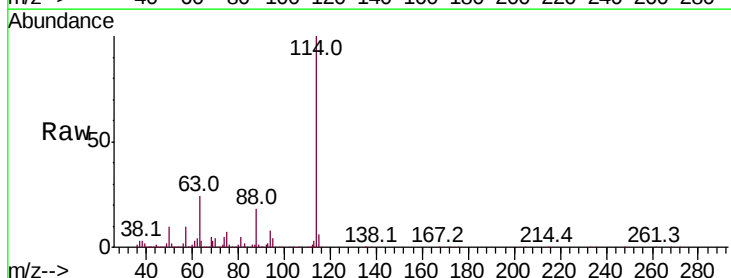
Delta R.T. -0.00 min

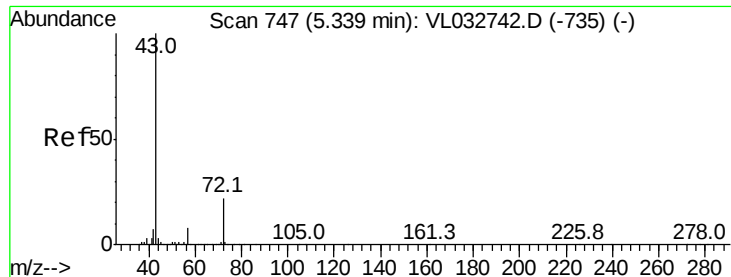
Lab File: VL032794.D

Acq: 21 Nov 2018 1:17

Tgt Ion: 114 Resp: 3268174

Ion	Ratio	Lower	Upper
114	100		
63	24.8	20.9	31.3
88	17.9	14.4	21.6

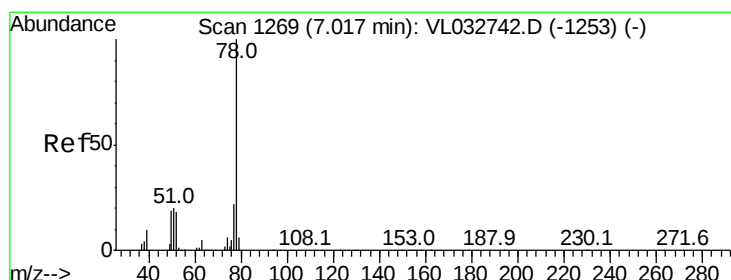
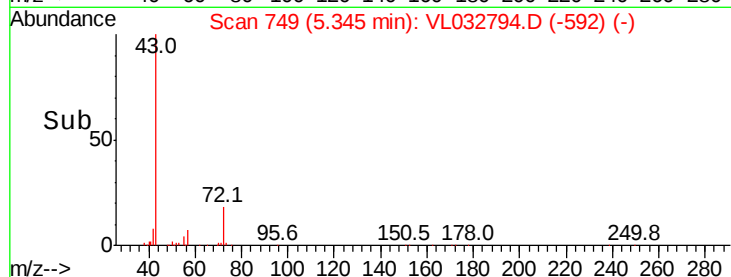
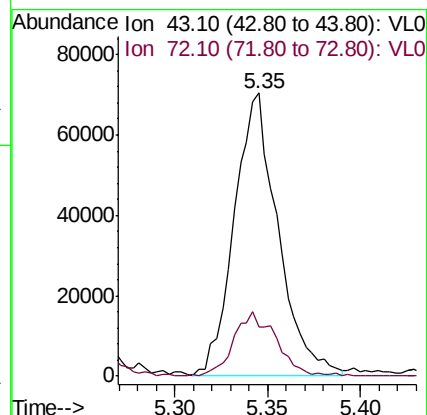
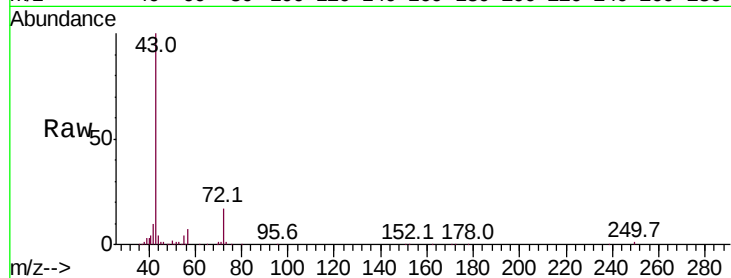




#34
2-Butanone
Concen: 0.677 ppbv
RT: 5.35 min Scan# 749
Delta R.T. 0.01 min
Lab File: VL032794.D
Acq: 21 Nov 2018 1:17

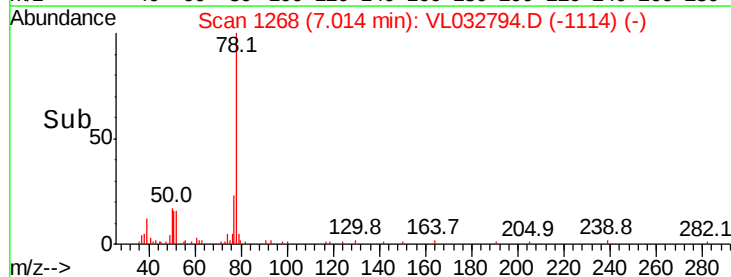
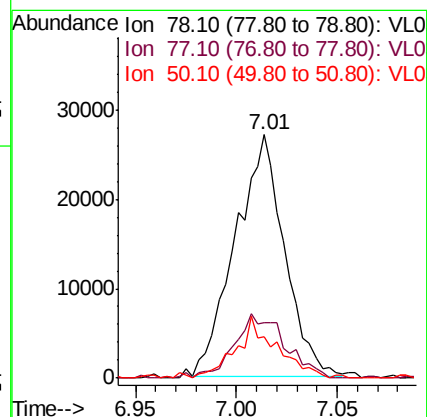
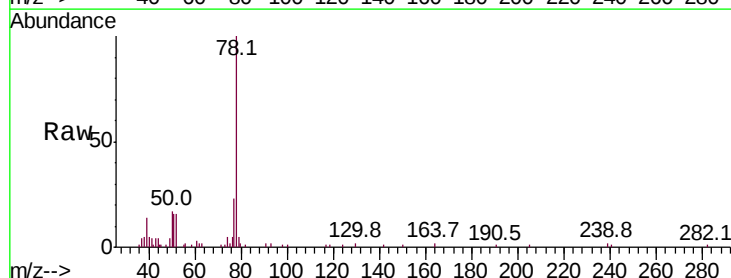
Instrument :
MSVOA_L
ClientSampleId :

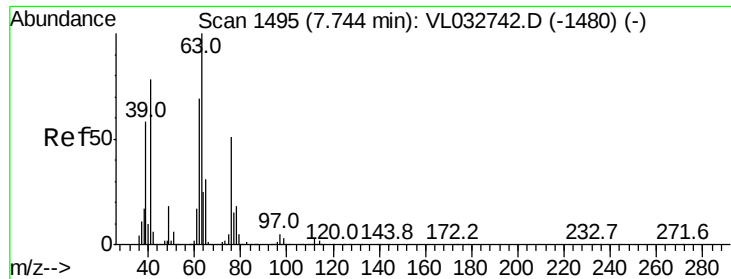
Tot Ion: 43 Resp: 114685
Ion Ratio Lower Upper
43 100
72 22.4 18.4 27.6



#36
Benzene
Concen: 0.177 ppbv
RT: 7.01 min Scan# 1268
Delta R.T. -0.00 min
Lab File: VL032794.D
Acq: 21 Nov 2018 1:17

Tgt Ion: 78 Resp: 46009
Ion Ratio Lower Upper
78 100
77 23.0 17.8 26.8
50 16.5 15.4 23.0





#39

1,2-Dichloropropane

Concen: 8.097 ppbv

RT: 7.30 min Scan# 1356

Delta R.T. -0.45 min

Lab File: VL032794.D

Acq: 21 Nov 2018 1:17

Instrument :

MSVOA_L

ClientSampleId :

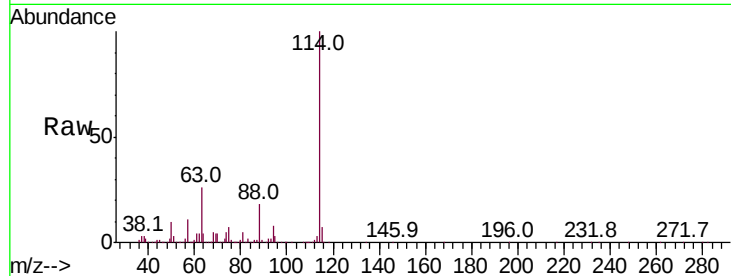
Tot Ion: 63 Resp: 802847

Ion Ratio Lower Upper

63 100

41 0.0 62.0 93.0#

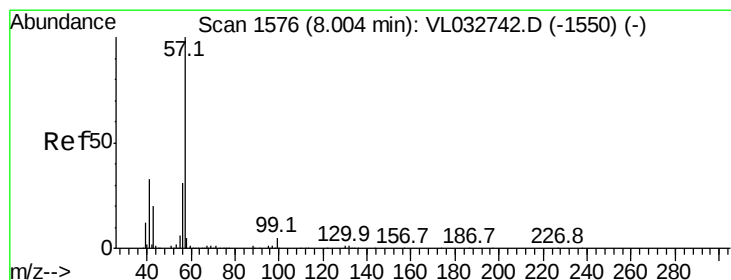
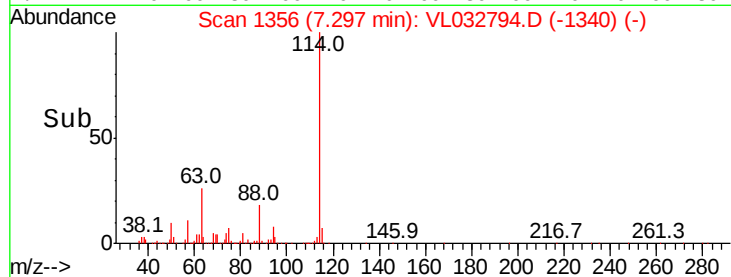
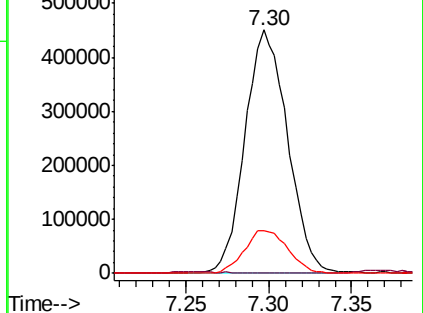
62 17.3 55.4 83.2#



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



#44

2,2,4-Trimethylpentane

Concen: 0.054 ppbv

RT: 8.00 min Scan# 1574

Delta R.T. -0.01 min

Lab File: VL032794.D

Acq: 21 Nov 2018 1:17

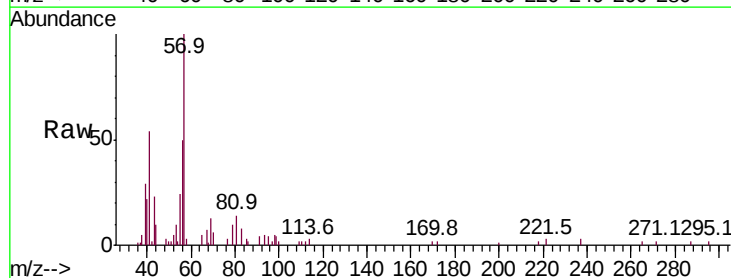
Tgt Ion: 57 Resp: 23626

Ion Ratio Lower Upper

57 100

41 74.8 26.6 39.8#

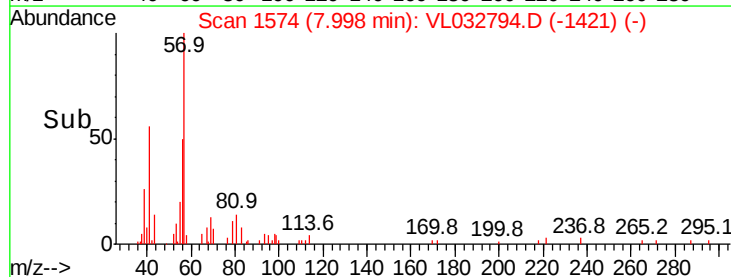
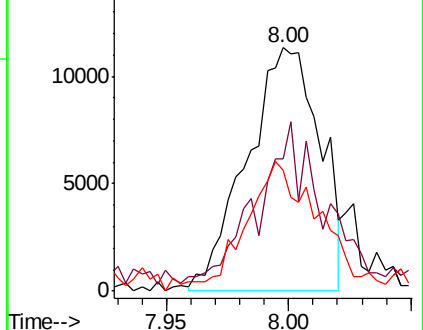
56 58.0 24.8 37.2#

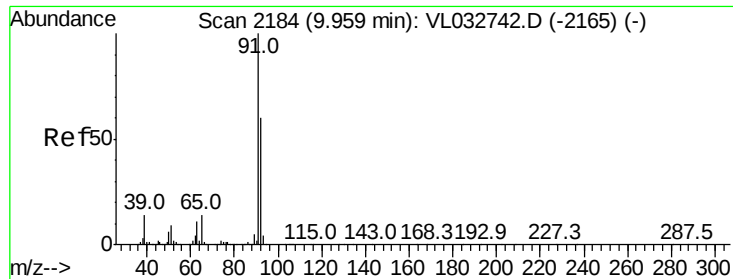


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#53

Toluene

Concen: 6.688 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL032794.D

Acq: 21 Nov 2018 1:17

Instrument :

MSVOA_L

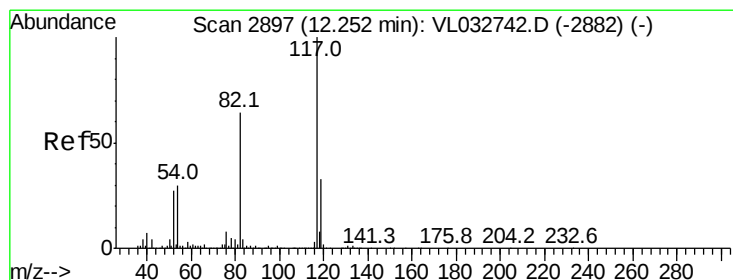
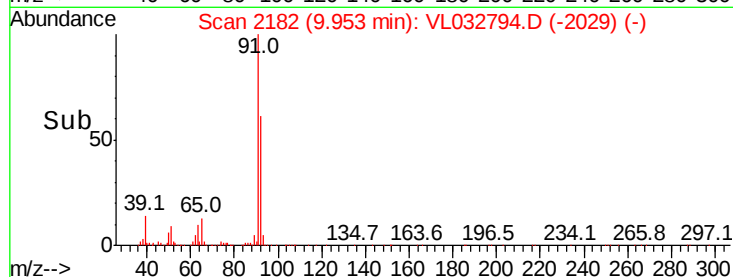
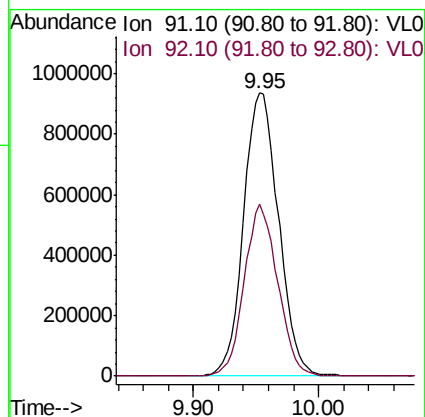
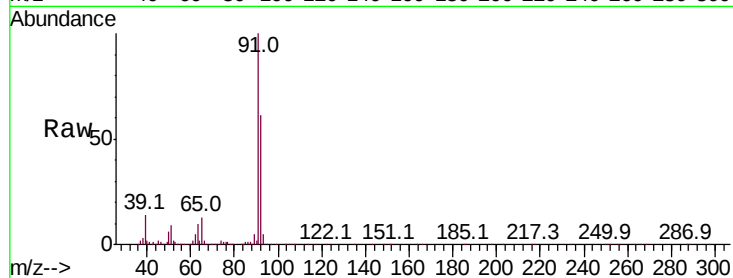
ClientSampleId :

Tot Ion: 91 Resp: 1815772

Ion Ratio Lower Upper

91 100

92 58.2 47.9 71.9



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2896

Delta R.T. -0.00 min

Lab File: VL032794.D

Acq: 21 Nov 2018 1:17

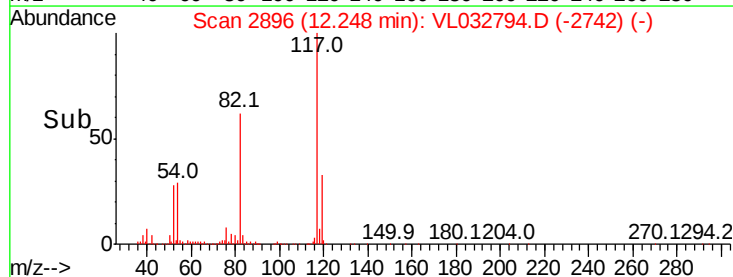
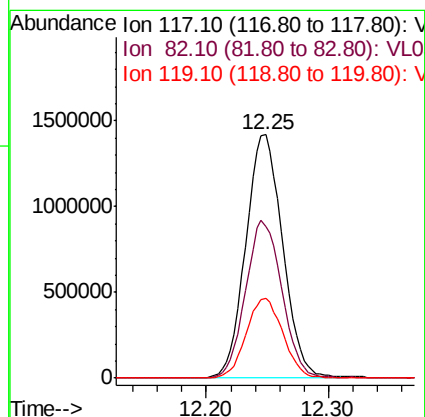
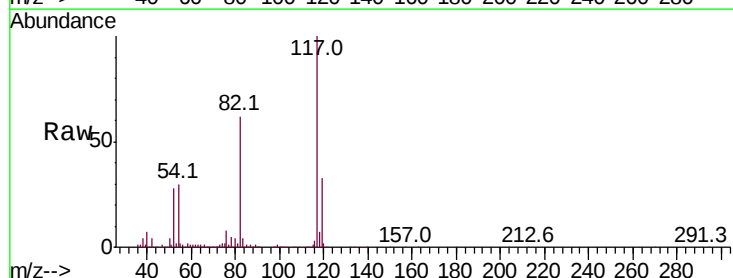
Tgt Ion: 117 Resp: 2959576

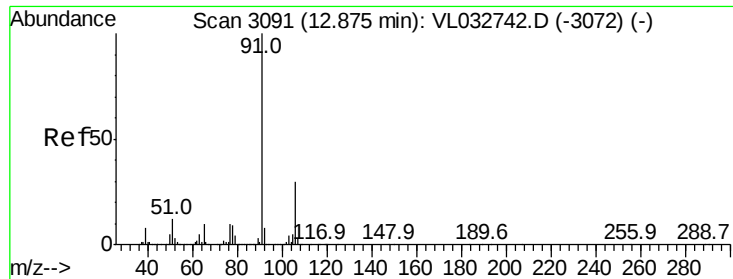
Ion Ratio Lower Upper

117 100

82 64.6 51.0 76.6

119 32.8 28.0 42.0





#58

Ethyl Benzene

Concen: 0.068 ppbv

RT: 13.13 min Scan# 3170

Delta R.T. 0.25 min

Lab File: VL032794.D

Acq: 21 Nov 2018 1:17

Instrument :

MSVOA_L

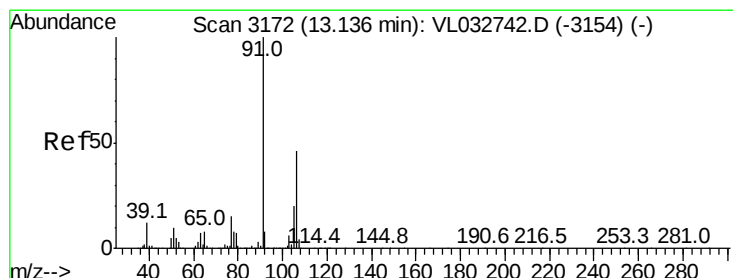
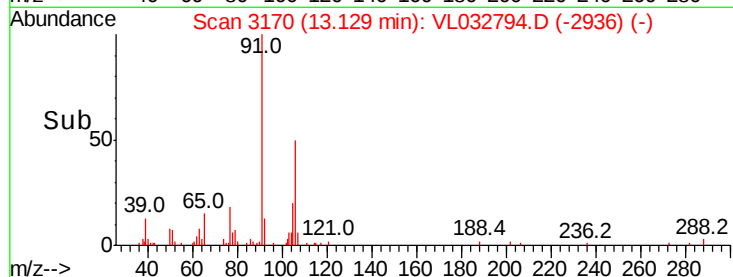
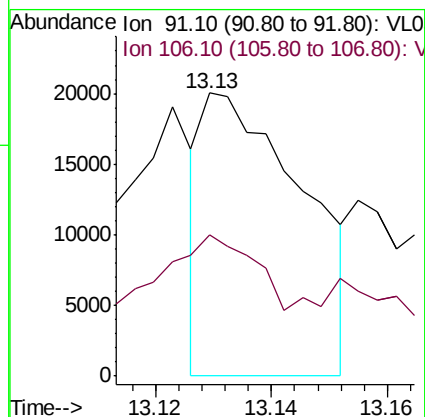
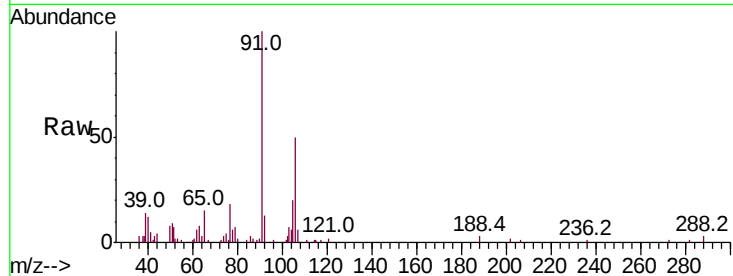
ClientSampleId :

Tot Ion: 91 Resp: 24083

Ion Ratio Lower Upper

91 100

106 33.3 23.6 35.4



#59

m/p-Xylene

Concen: 0.076 ppbv

RT: 13.13 min Scan# 3170

Delta R.T. -0.01 min

Lab File: VL032794.D

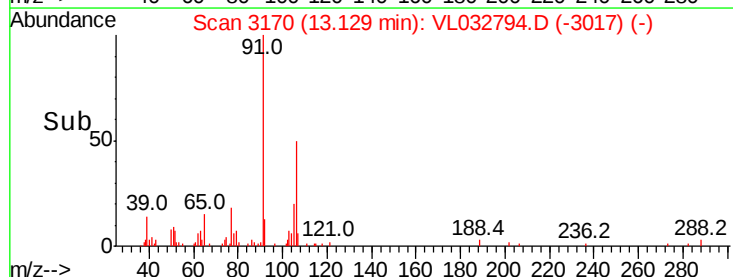
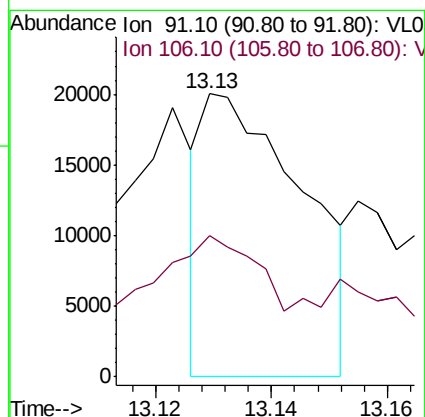
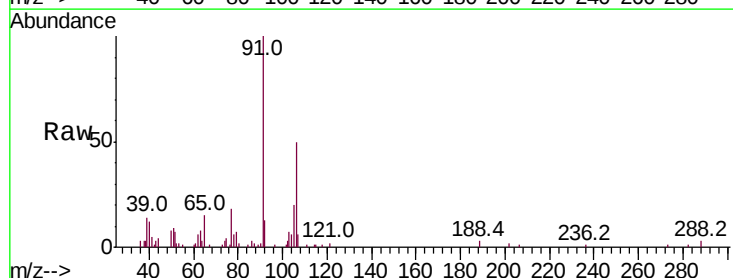
Acq: 21 Nov 2018 1:17

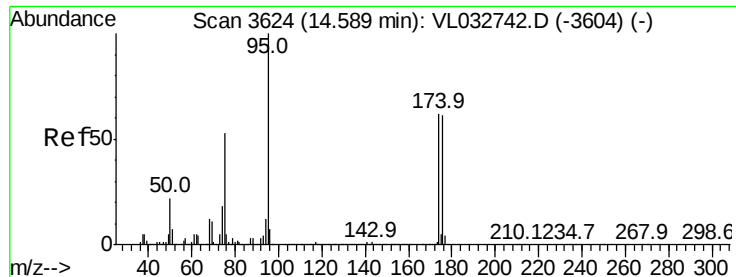
Tgt Ion: 91 Resp: 24083

Ion Ratio Lower Upper

91 100

106 114.8 36.1 54.1#

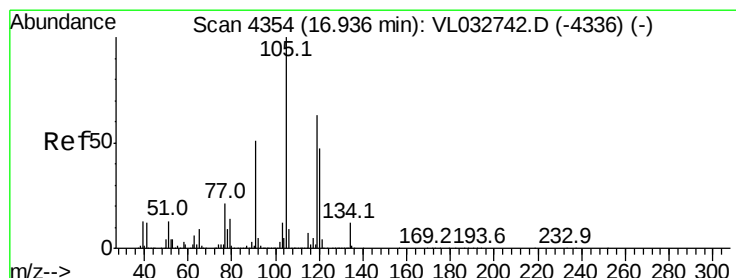
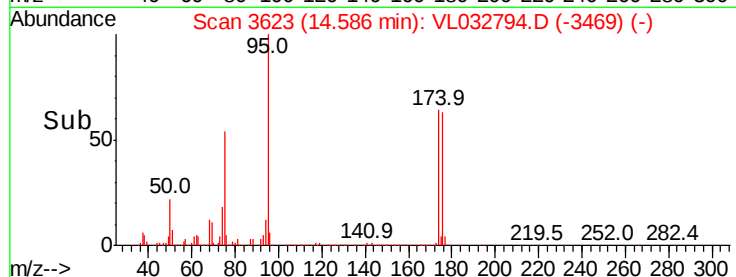
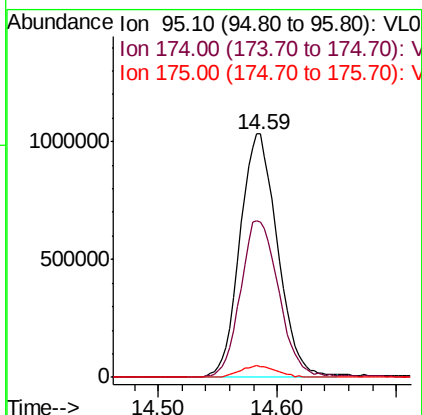
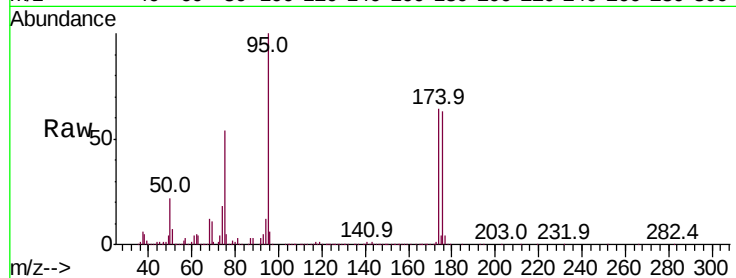




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.215 ppbv
 RT: 14.59 min Scan# 3623
 Delta R.T. -0.00 min
 Lab File: VL032794.D
 Acq: 21 Nov 2018 1:17

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion: 95 Resp: 2261188
 Ion Ratio Lower Upper
 95 100
 174 66.5 50.7 76.1
 175 4.7 3.8 5.6



#74
 1,2,4-Trimethylbenzene
 Concen: 0.030 ppbv
 RT: 16.93 min Scan# 4353
 Delta R.T. -0.00 min
 Lab File: VL032794.D
 Acq: 21 Nov 2018 1:17

Tgt Ion:105 Resp: 11124
 Ion Ratio Lower Upper
 105 100
 120 32.8 37.6 56.4#
 91 14.9 42.5 63.7#
 77 0.3 17.4 26.2#

