

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112018\
 Data File : VL032796.D
 Acq On : 21 Nov 2018 2:36
 Operator : SY/AP
 Sample : J5998-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 21 04:09:27 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	1283195	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3313997	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3020886	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2242829	9.93	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.30%

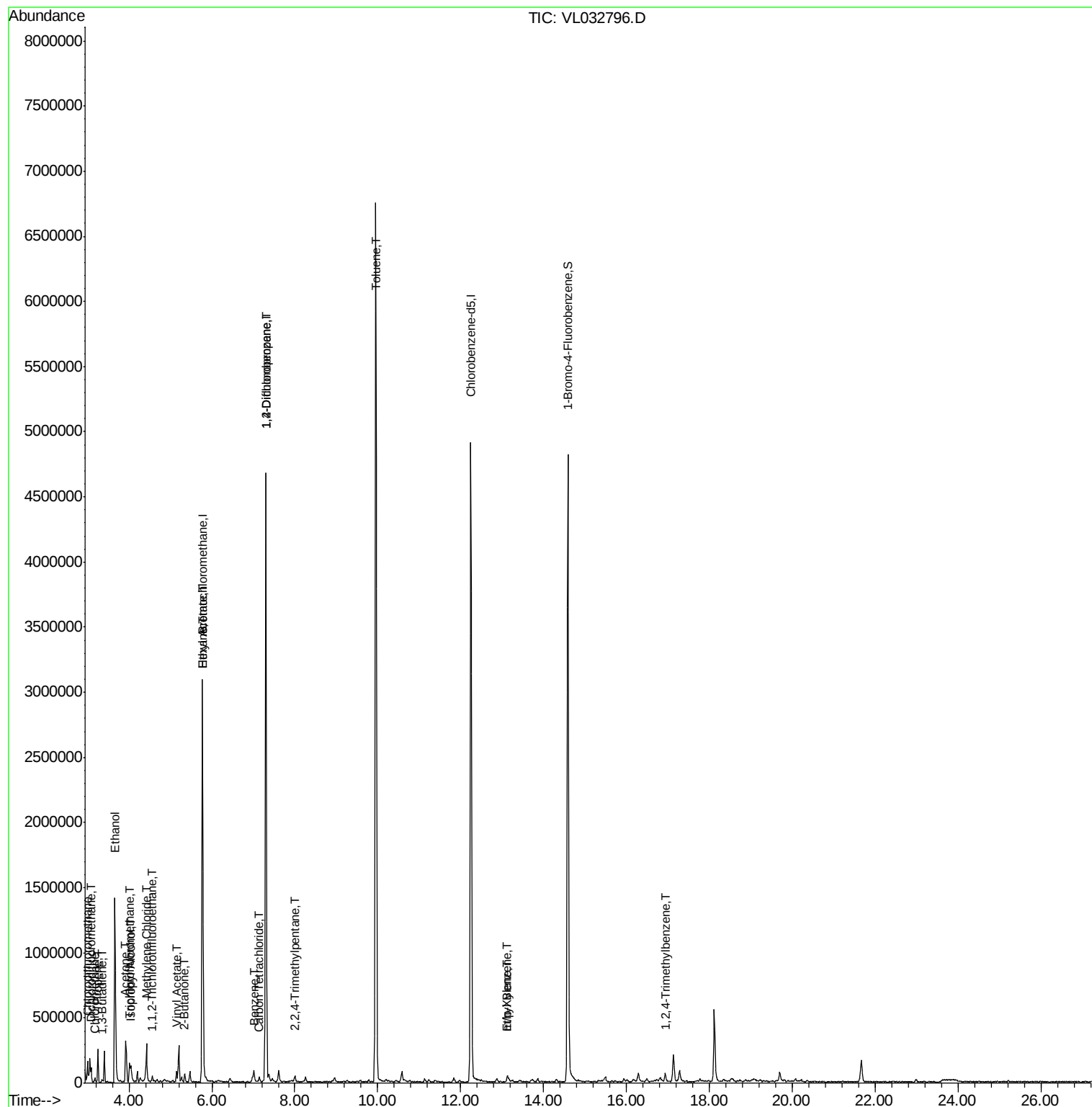
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	78067	0.423	ppbv	89
3) Chlorodifluoromethane	2.99	51	144222	1.418	ppbv #	74
4) Chloromethane	3.18	50	24129	0.428	ppbv #	86
9) Propene	3.25	41	61505	1.511	ppbv	100
11) Trichlorofluoromethane	4.01	101	93495	0.538	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.56	101	5905	0.042	ppbv #	14
13) Ethanol	3.66	45	1526023	114.440	ppbv	100
15) Acetone	3.91	43	338528	2.889	ppbv	96
16) 1,3-Butadiene	3.35	39	8674	0.191	ppbv #	6
19) Isopropyl Alcohol	4.04	45	132969	1.703	ppbv #	94
20) Methylene Chloride	4.42	84	93887	1.548	ppbv #	83
23) Vinyl Acetate	5.15	43	45801	0.214	ppbv #	38
25) Ethyl Acetate	5.79	43	132292	0.484	ppbv #	87
26) Hexane	5.79	57	146692	1.207	ppbv #	48
34) 2-Butanone	5.35	43	57630	0.335	ppbv	94
35) Carbon Tetrachloride	7.15	117	18896	0.071	ppbv #	93
36) Benzene	7.02	78	20971	0.079	ppbv #	93
39) 1,2-Dichloropropane	7.30	63	824789	8.203	ppbv #	23
44) 2,2,4-Trimethylpentane	8.00	57	17772	0.040	ppbv #	15
53) Toluene	9.95	91	5352616	19.442	ppbv	99
58) Ethyl Benzene	13.13	91	14250	0.039	ppbv	98
59) m/p-Xylene	13.13	91	14250	0.044	ppbv #	31
74) 1,2,4-Trimethylbenzene	16.92	105	12963	0.035	ppbv #	75

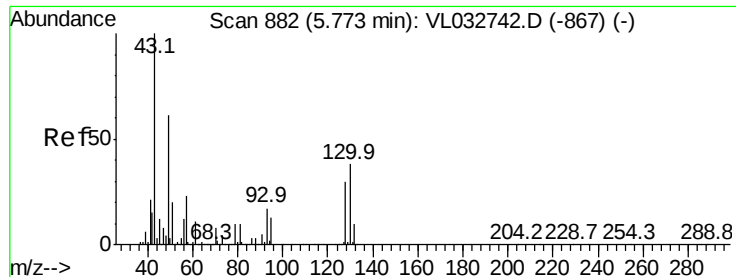
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.00 min

Lab File: VL032796.D

Acq: 21 Nov 2018 2:36

Instrument :

MSVOA_L

ClientSampleId :

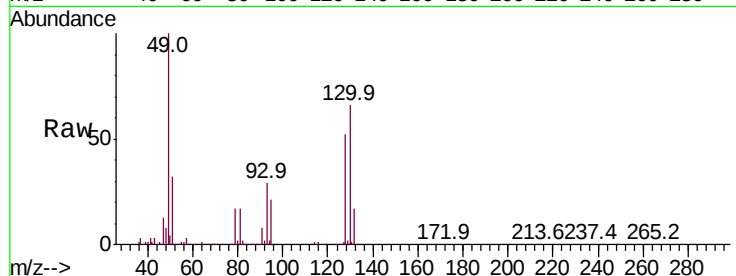
Tot Ion: 49 Resp: 1283195

Ion Ratio Lower Upper

49 100

128 53.0 24.9 74.6

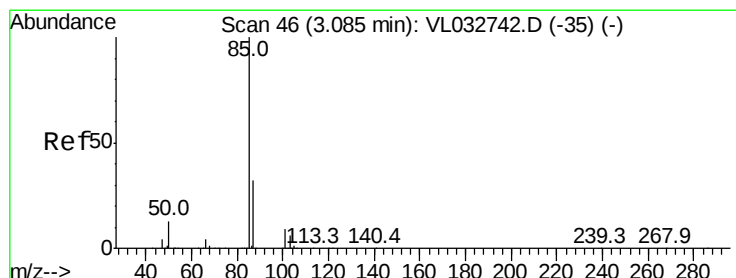
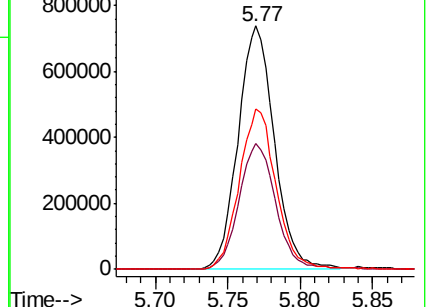
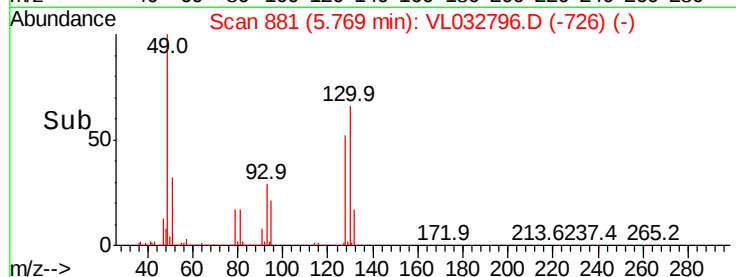
130 67.0 31.4 94.2



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: 0.423 ppbv

RT: 3.08 min Scan# 46

Delta R.T. -0.00 min

Lab File: VL032796.D

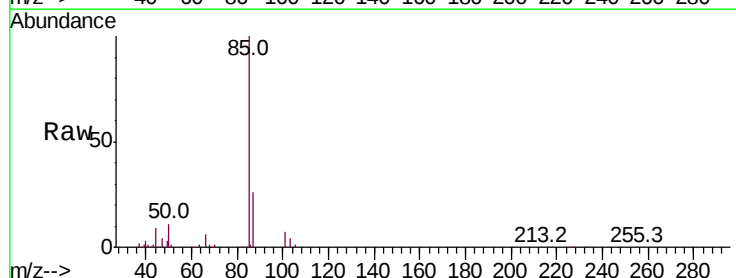
Acq: 21 Nov 2018 2:36

Tgt Ion: 85 Resp: 78067

Ion Ratio Lower Upper

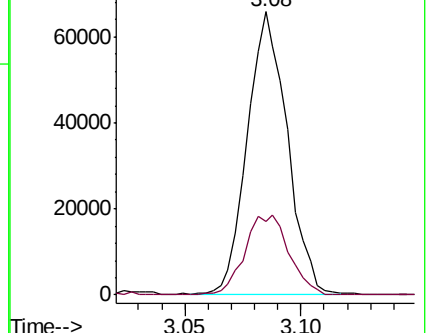
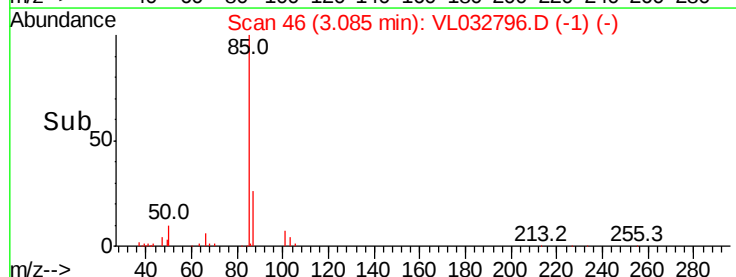
85 100

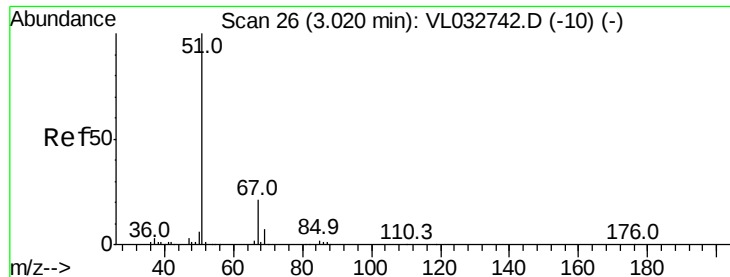
87 26.2 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.418 ppbv

RT: 2.99 min Scan# 18

Delta R.T. -0.03 min

Lab File: VL032796.D

Acq: 21 Nov 2018 2:36

Instrument :

MSVOA_L

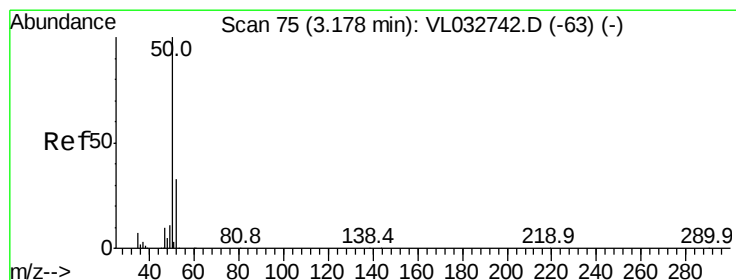
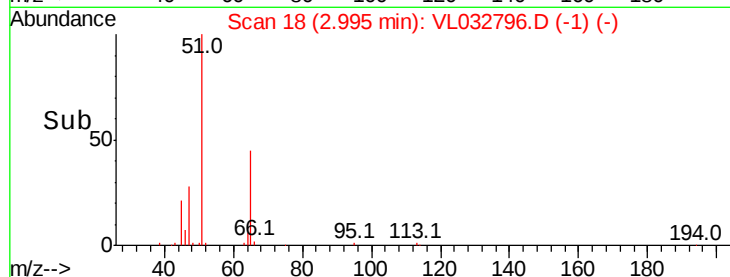
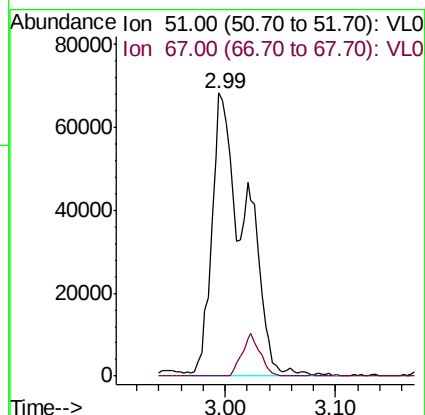
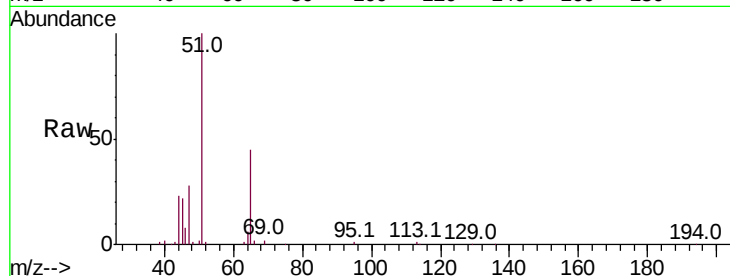
ClientSampleId :

Tot Ion: 51 Resp: 144222

Ion Ratio Lower Upper

51 100

67 8.2 16.1 24.1#



#4

Chloromethane

Concen: 0.428 ppbv

RT: 3.18 min Scan# 76

Delta R.T. 0.00 min

Lab File: VL032796.D

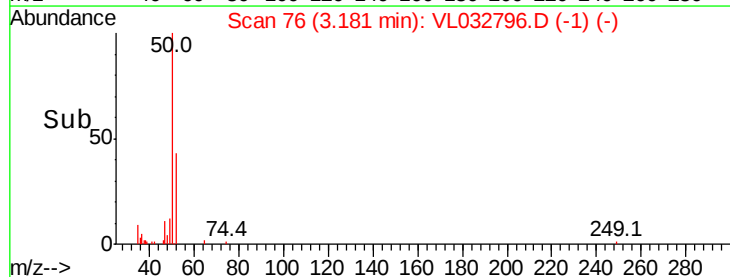
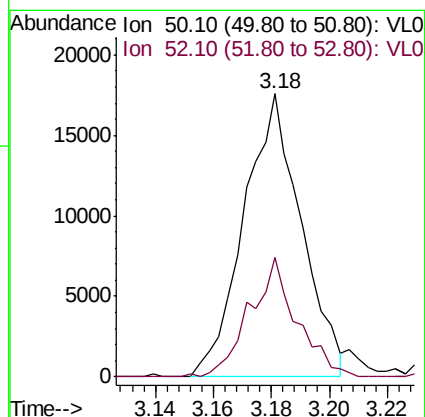
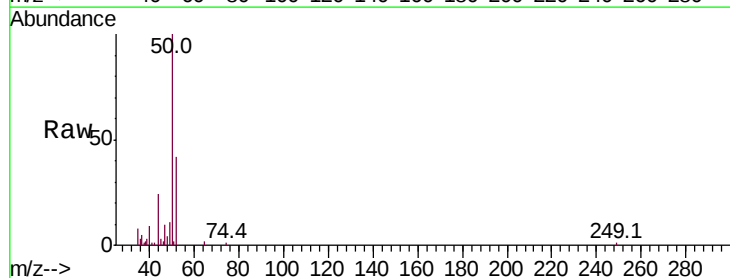
Acq: 21 Nov 2018 2:36

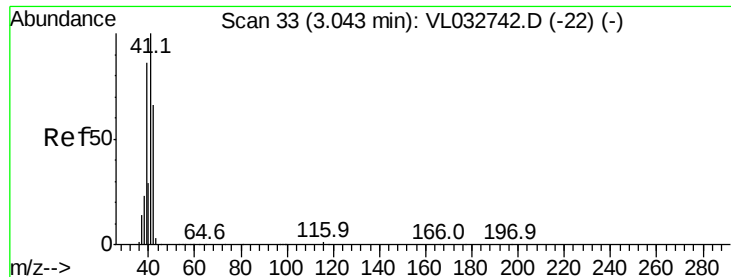
Tgt Ion: 50 Resp: 24129

Ion Ratio Lower Upper

50 100

52 41.1 26.6 40.0#





#9

Propene

Concen: 1.511 ppbv

RT: 3.25 min Scan# 96

Delta R.T. 0.20 min

Lab File: VL032796.D

Acq: 21 Nov 2018 2:36

Instrument :

MSVOA_L

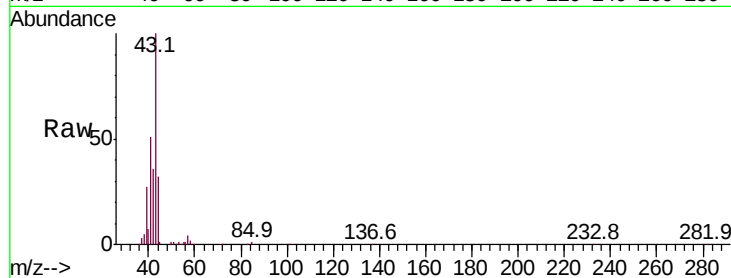
ClientSampleId :

Tot Ion: 41 Resp: 61505

Ion Ratio Lower Upper

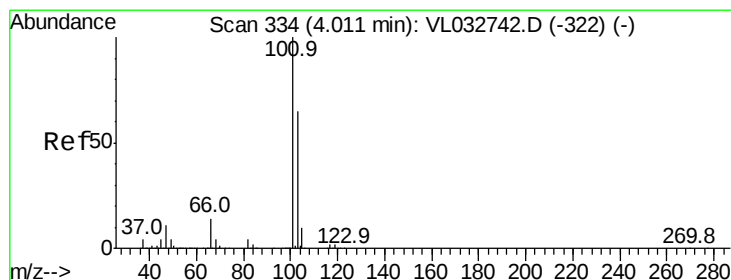
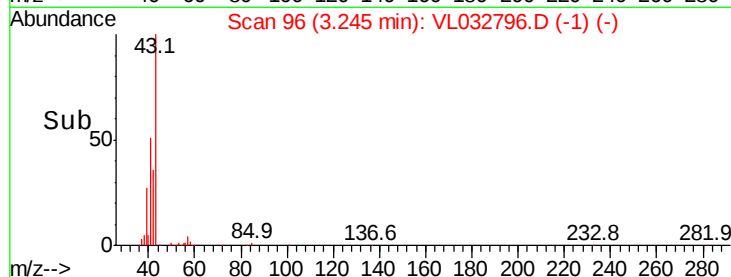
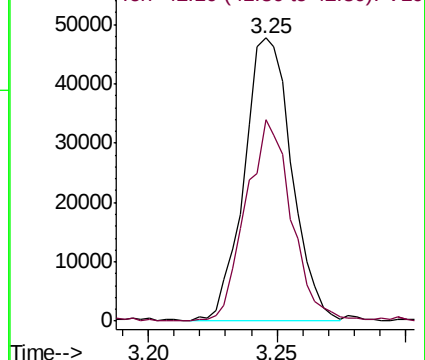
41 100

42 69.0 55.0 82.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.538 ppbv

RT: 4.01 min Scan# 335

Delta R.T. 0.00 min

Lab File: VL032796.D

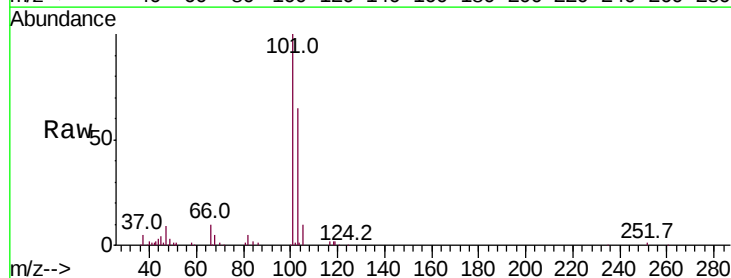
Acq: 21 Nov 2018 2:36

Tgt Ion: 101 Resp: 93495

Ion Ratio Lower Upper

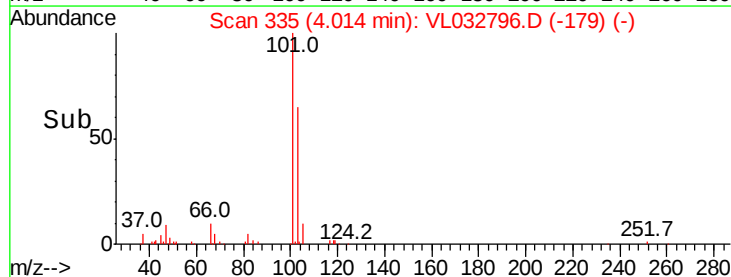
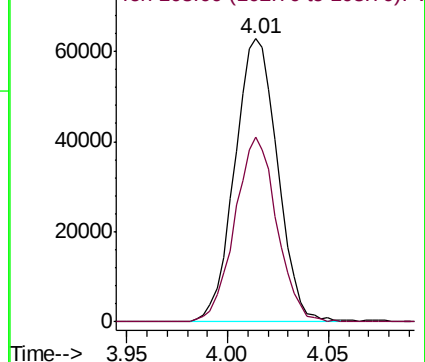
101 100

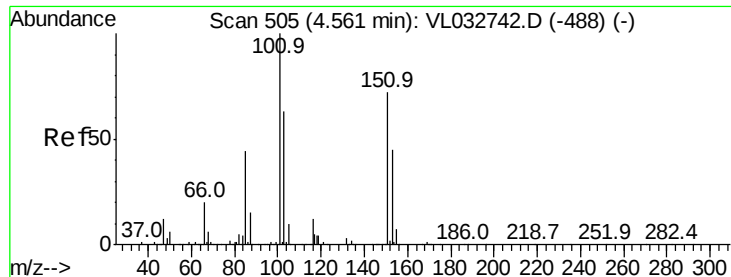
103 65.3 51.6 77.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

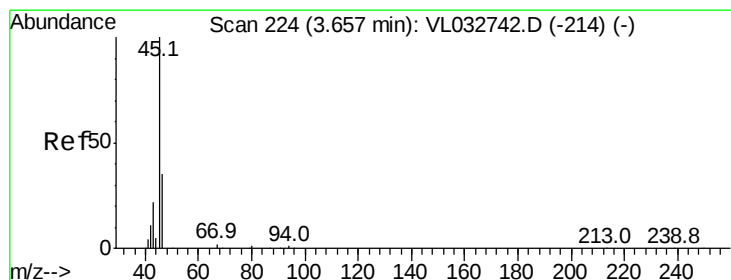
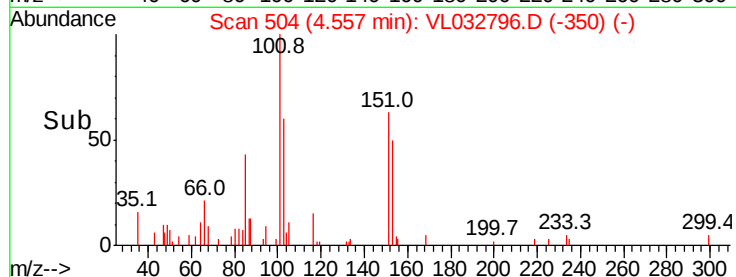
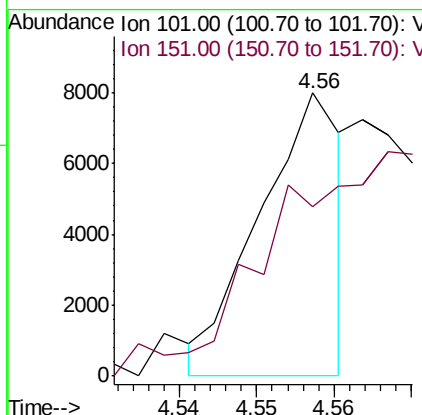
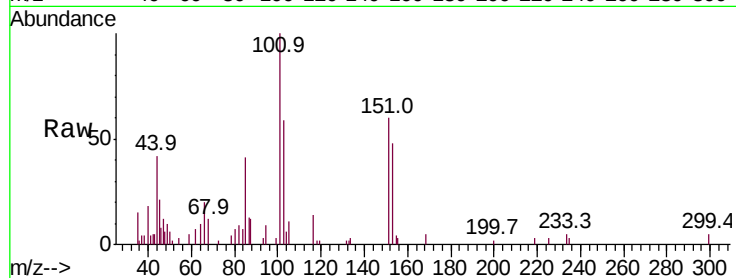




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.042 ppbv
RT: 4.56 min Scan# 504
Delta R.T. -0.00 min
Lab File: VL032796.D
Acq: 21 Nov 2018 2:36

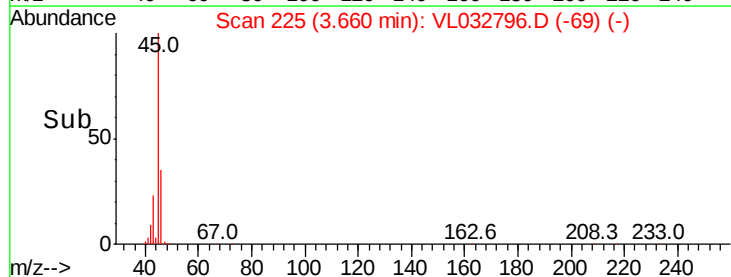
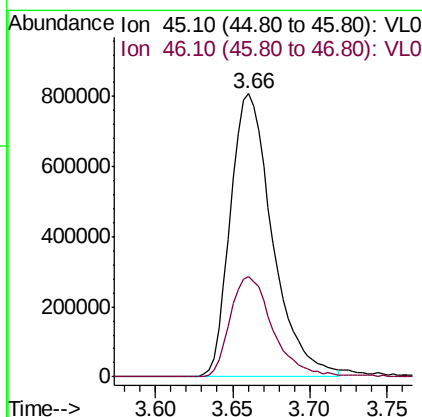
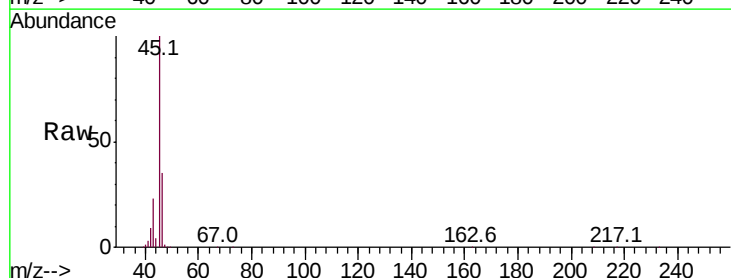
Instrument :
MSVOA_L
ClientSampled :

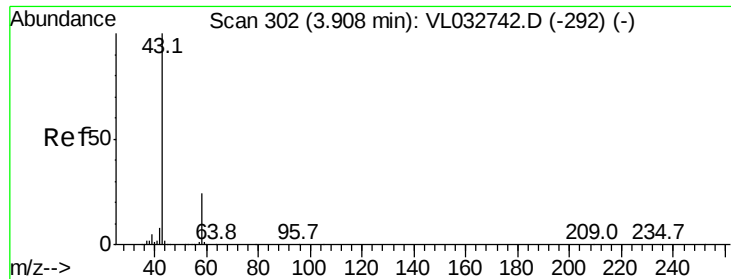
Tot Ion:101 Resp: 5905
Ion Ratio Lower Upper
101 100
151 0.0 56.7 85.1#



#13
Ethanol
Concen: 114.440 ppbv
RT: 3.66 min Scan# 225
Delta R.T. 0.00 min
Lab File: VL032796.D
Acq: 21 Nov 2018 2:36

Tgt Ion: 45 Resp: 1526023
Ion Ratio Lower Upper
45 100
46 36.4 14.5 57.9





#15

Acetone

Concen: 2.889 ppbv

RT: 3.91 min Scan# 304

Delta R.T. 0.01 min

Lab File: VL032796.D

Acq: 21 Nov 2018 2:36

Instrument :

MSVOA_L

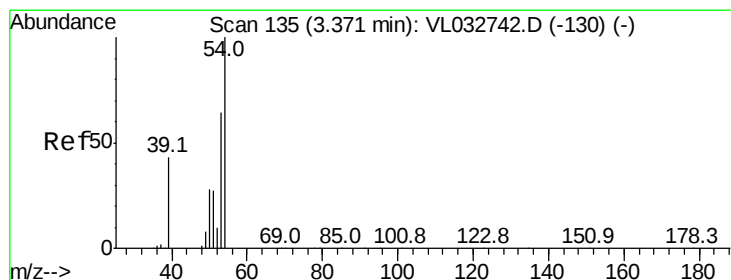
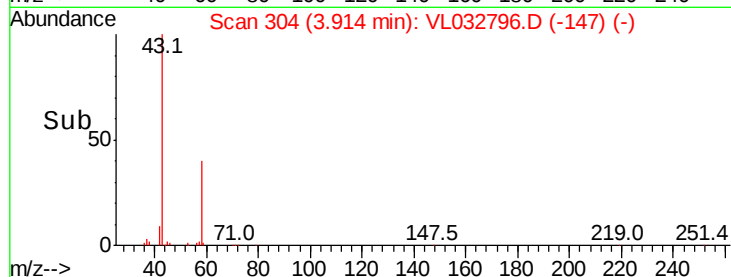
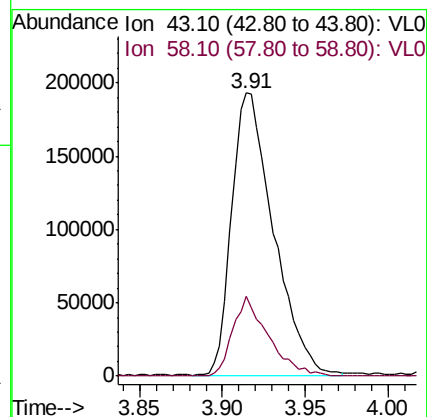
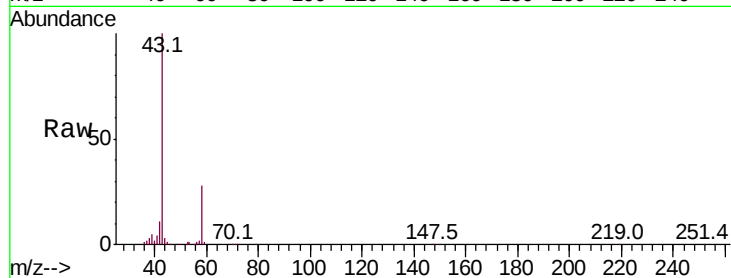
ClientSampleId :

Tot Ion: 43 Resp: 338528

Ion Ratio Lower Upper

43 100

58 24.3 21.1 31.7



#16

1,3-Butadiene

Concen: 0.191 ppbv

RT: 3.35 min Scan# 130

Delta R.T. -0.02 min

Lab File: VL032796.D

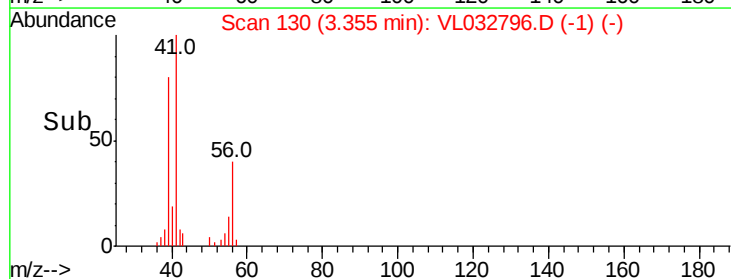
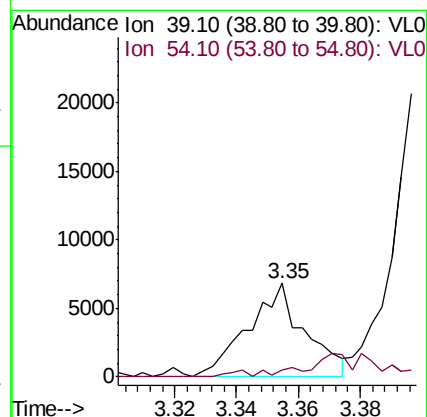
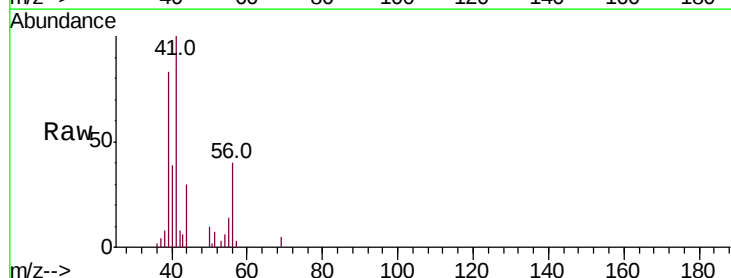
Acq: 21 Nov 2018 2:36

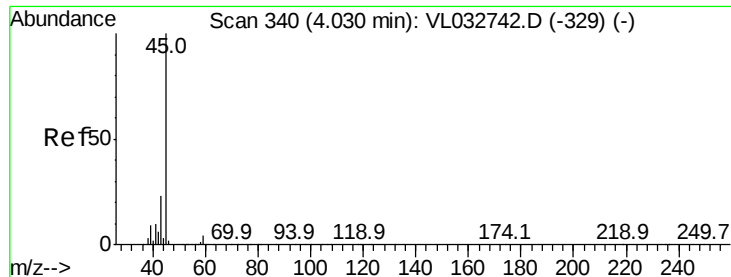
Tgt Ion: 39 Resp: 8674

Ion Ratio Lower Upper

39 100

54 0.0 68.9 103.3#





#19

Isopropyl Alcohol

Concen: 1.703 ppbv

RT: 4.04 min Scan# 344

Delta R.T. 0.01 min

Lab File: VL032796.D

Acq: 21 Nov 2018 2:36

Instrument :

MSVOA_L

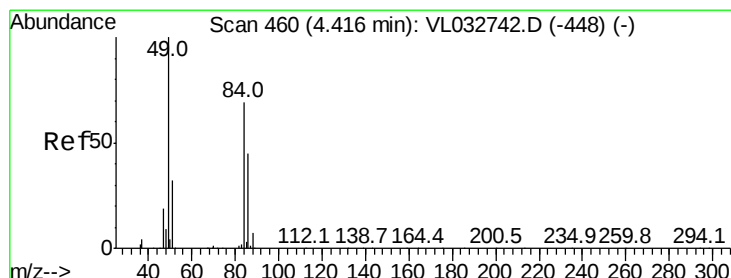
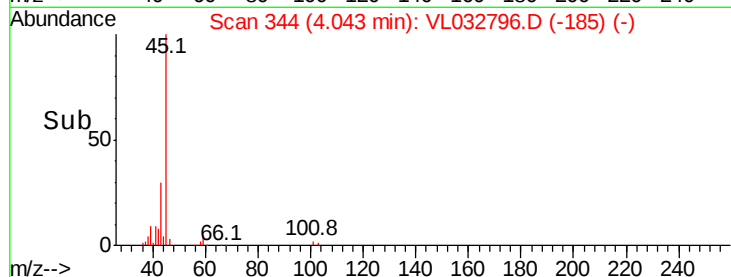
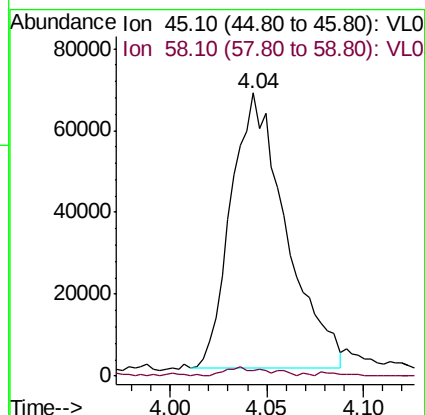
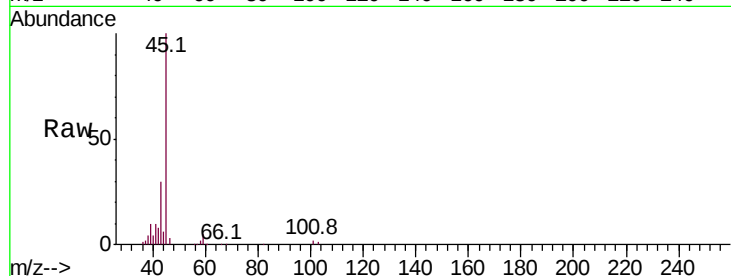
ClientSampleId :

Tot Ion: 45 Resp: 132969

Ion Ratio Lower Upper

45 100

58 4.0 1.4 2.0#



#20

Methylene Chloride

Concen: 1.548 ppbv

RT: 4.42 min Scan# 461

Delta R.T. 0.00 min

Lab File: VL032796.D

Acq: 21 Nov 2018 2:36

Tgt Ion: 84 Resp: 93887

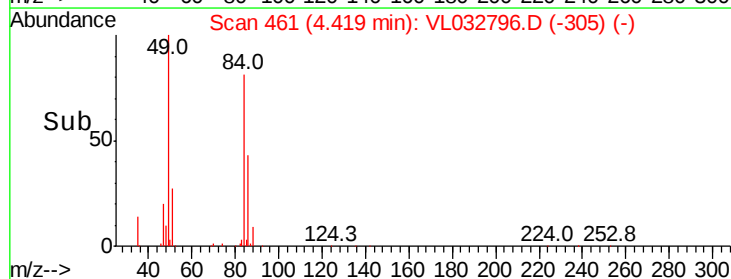
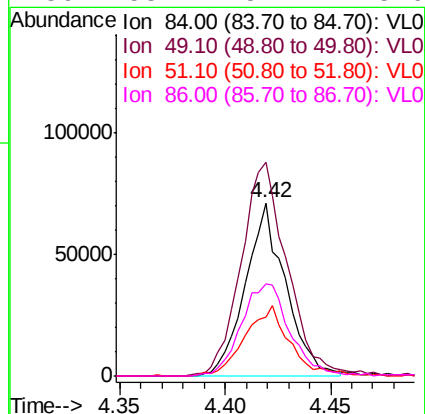
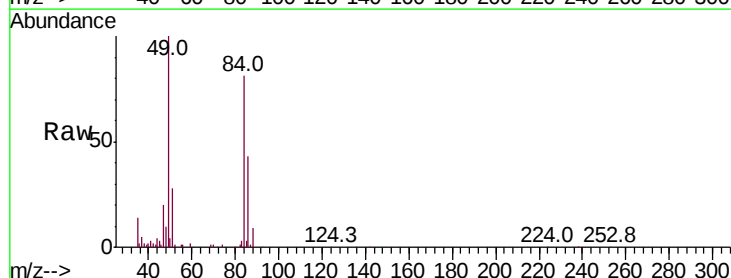
Ion Ratio Lower Upper

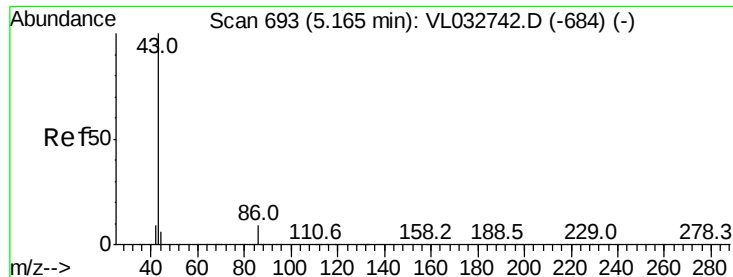
84 100

49 122.3 115.8 173.6

51 33.9 36.9 55.3#

86 53.2 52.4 78.6





#23

Vinyl Acetate

Concen: 0.214 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.01 min

Lab File: VL032796.D

Acq: 21 Nov 2018 2:36

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 43 Resp: 45801

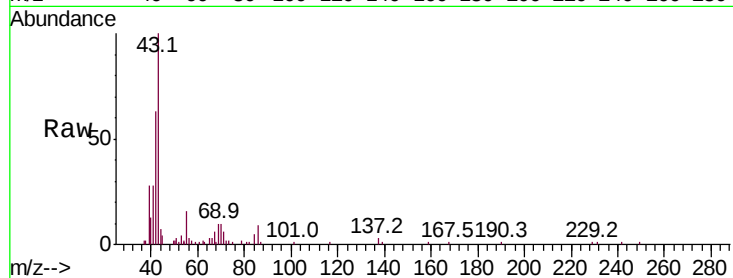
Ion Ratio Lower Upper

43 100

86 9.3 6.2 9.4

42 61.3 7.8 11.6#

44 2.9 4.4 6.6#

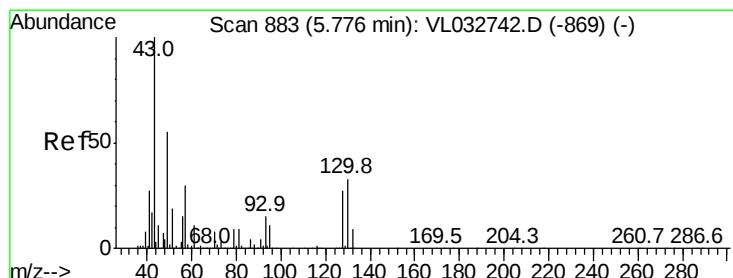
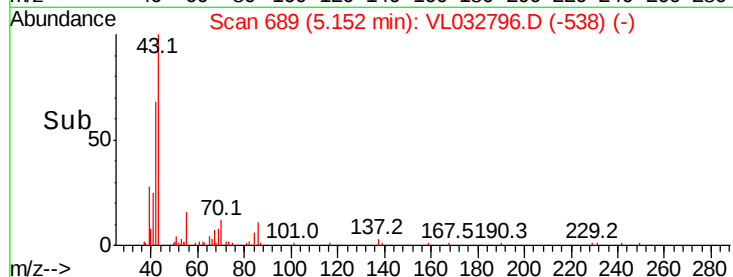
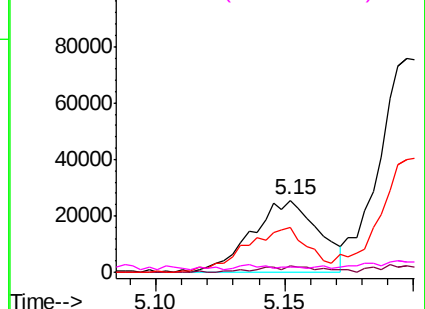


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.484 ppbv

RT: 5.79 min Scan# 886

Delta R.T. 0.01 min

Lab File: VL032796.D

Acq: 21 Nov 2018 2:36

Tgt Ion: 43 Resp: 132292

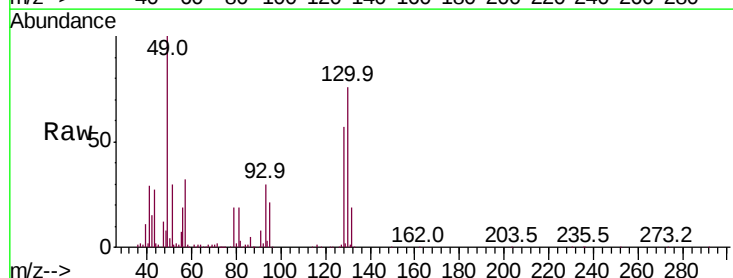
Ion Ratio Lower Upper

43 100

45 5.5 7.9 11.9#

61 3.3 7.8 11.6#

70 3.8 5.8 8.6#

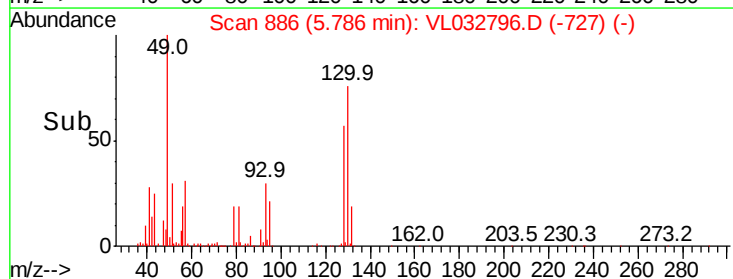
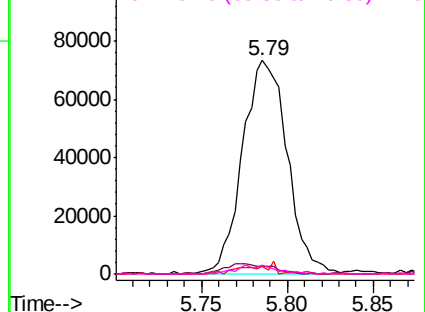


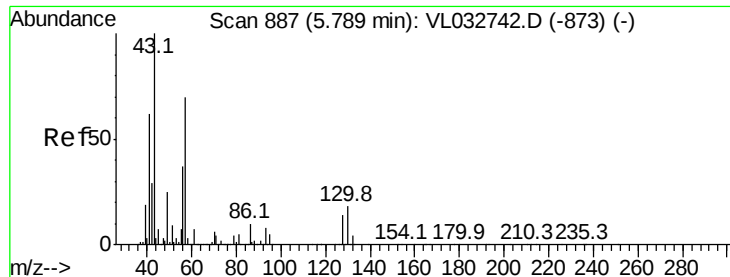
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 1.207 ppbv

RT: 5.79 min Scan# 886

Delta R.T. -0.00 min

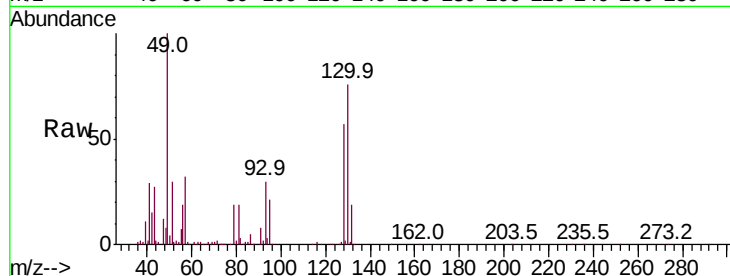
Lab File: VL032796.D

Acq: 21 Nov 2018 2:36

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 146692

Ion	Ratio	Lower	Upper
57	100		
41	98.0	70.3	105.5
43	91.8	174.0	261.0#
56	58.6	42.3	63.5



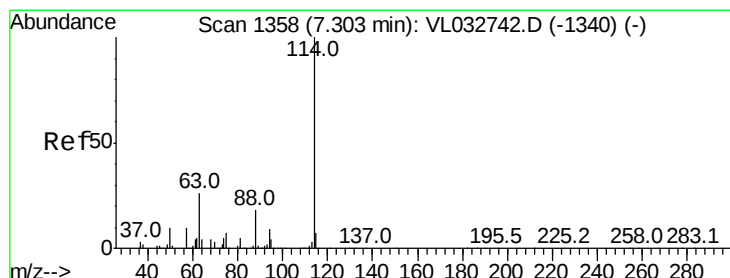
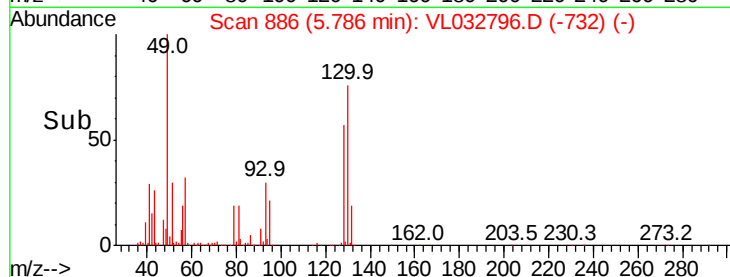
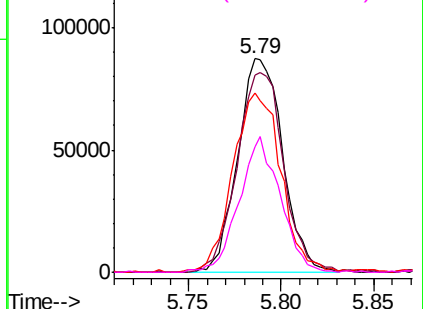
Abundance

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



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.30 min Scan# 1357

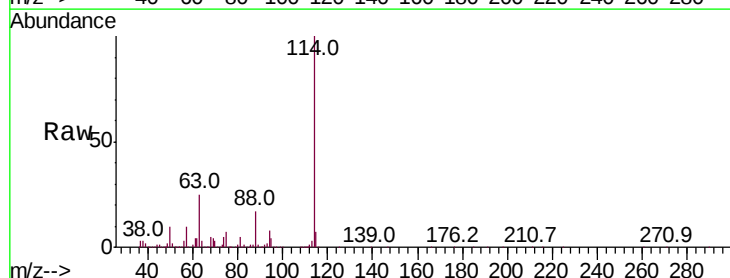
Delta R.T. -0.00 min

Lab File: VL032796.D

Acq: 21 Nov 2018 2:36

Tgt Ion:114 Resp: 3313997

Ion	Ratio	Lower	Upper
114	100		
63	25.0	20.9	31.3
88	17.9	14.4	21.6

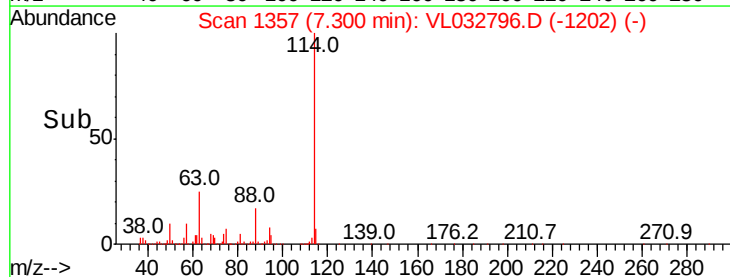
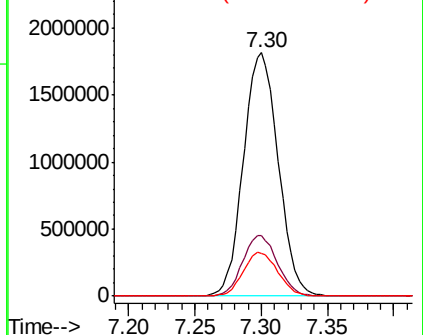


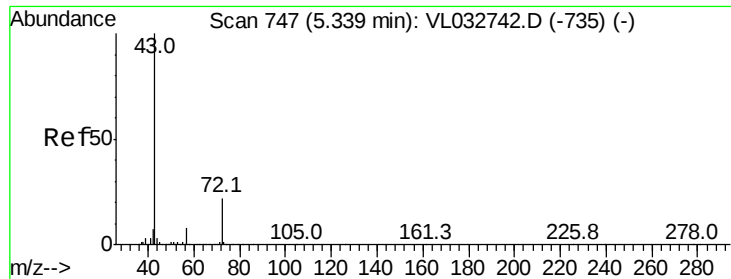
Abundance

Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

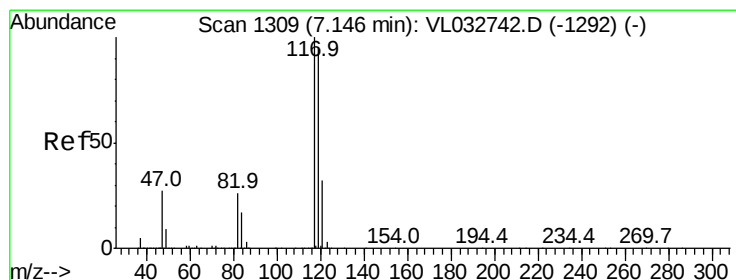
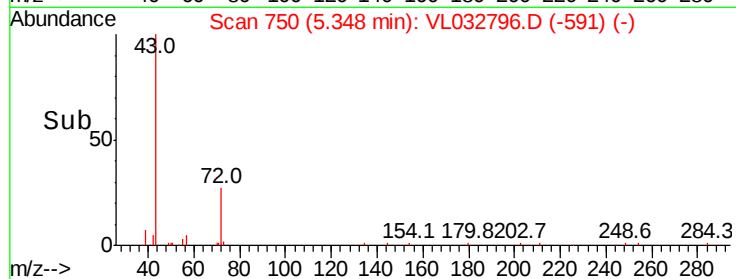
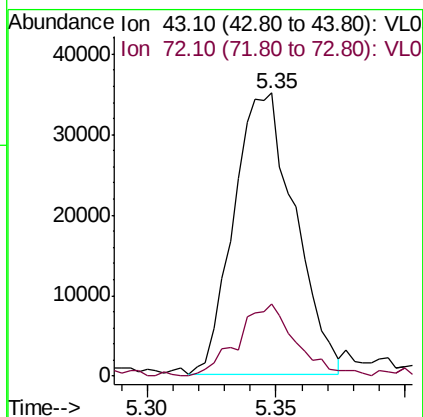
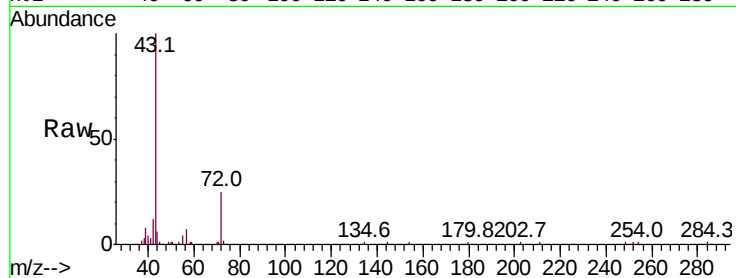




#34
2-Butanone
Concen: 0.335 ppbv
RT: 5.35 min Scan# 750
Delta R.T. 0.01 min
Lab File: VL032796.D
Acq: 21 Nov 2018 2:36

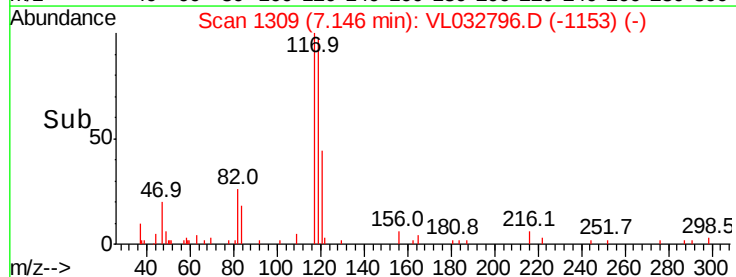
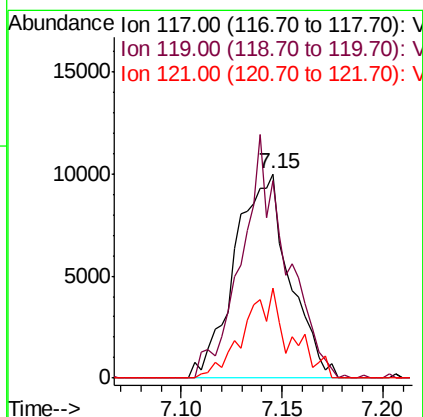
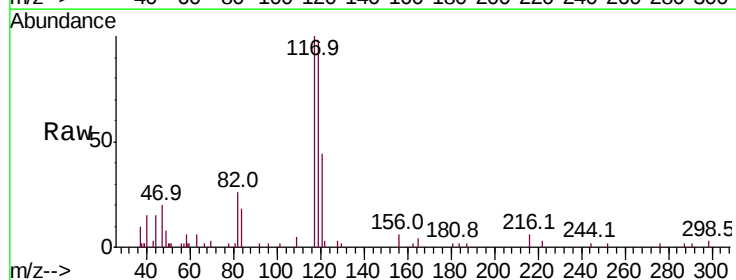
Instrument :
MSVOA_L
ClientSampleId :

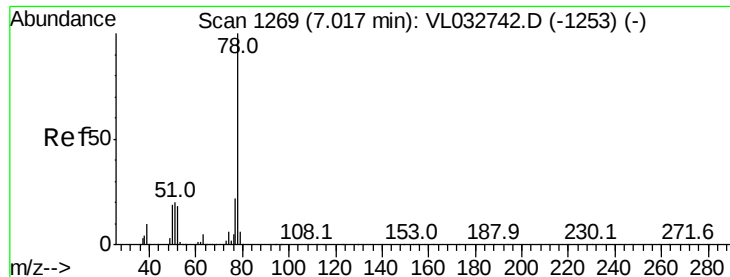
Tot Ion: 43 Resp: 57630
Ion Ratio Lower Upper
43 100
72 25.8 18.4 27.6



#35
Carbon Tetrachloride
Concen: 0.071 ppbv
RT: 7.15 min Scan# 1309
Delta R.T. -0.00 min
Lab File: VL032796.D
Acq: 21 Nov 2018 2:36

Tgt Ion: 117 Resp: 18896
Ion Ratio Lower Upper
117 100
119 96.7 76.1 114.1
121 44.4 25.4 38.0#





#36

Benzene

Concen: 0.079 ppbv

RT: 7.02 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VL032796.D

Acq: 21 Nov 2018 2:36

Instrument :

MSVOA_L

ClientSampleId :

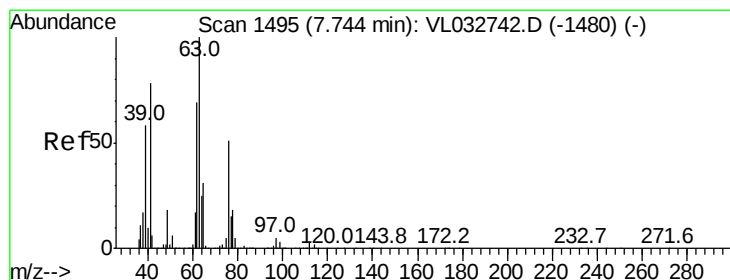
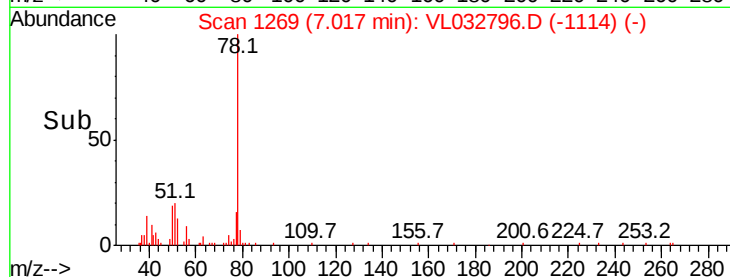
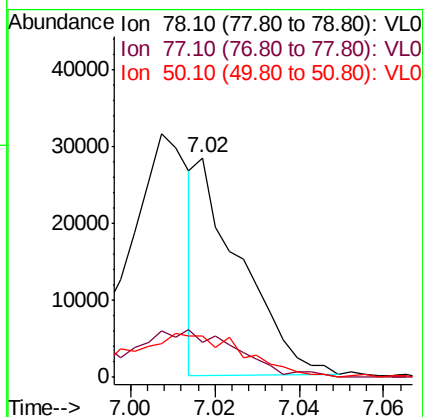
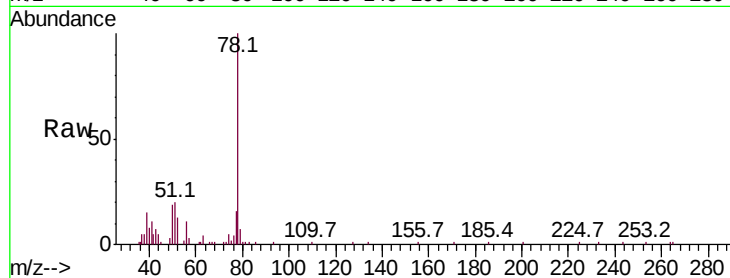
Tot Ion: 78 Resp: 20971

Ion Ratio Lower Upper

78 100

77 16.3 17.8 26.8#

50 18.9 15.4 23.0



#39

1,2-Dichloropropane

Concen: 8.203 ppbv

RT: 7.30 min Scan# 1357

Delta R.T. -0.44 min

Lab File: VL032796.D

Acq: 21 Nov 2018 2:36

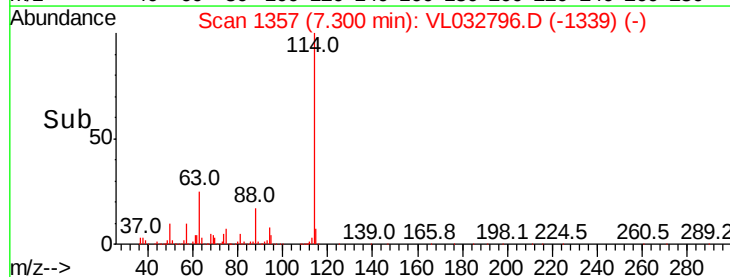
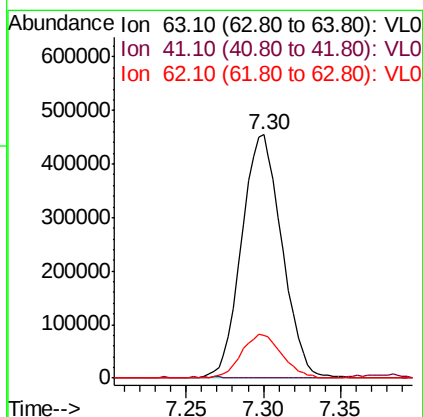
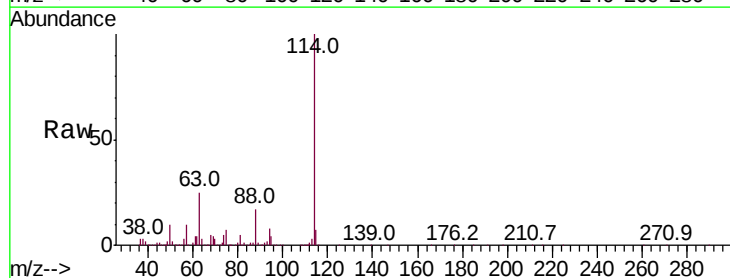
Tgt Ion: 63 Resp: 824789

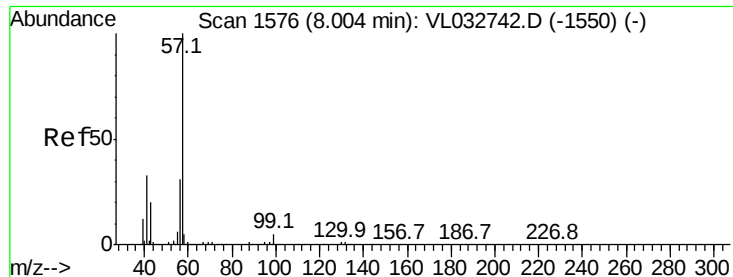
Ion Ratio Lower Upper

63 100

41 0.0 62.0 93.0#

62 17.3 55.4 83.2#

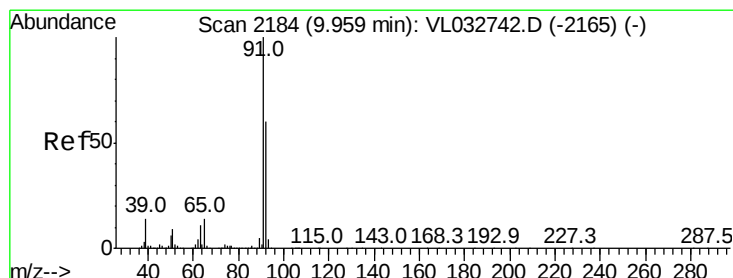
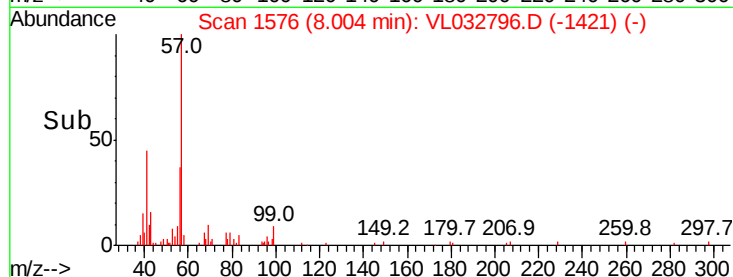
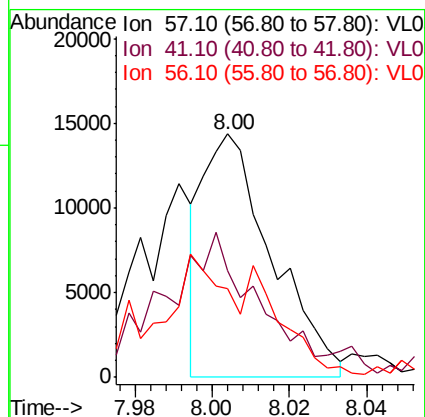
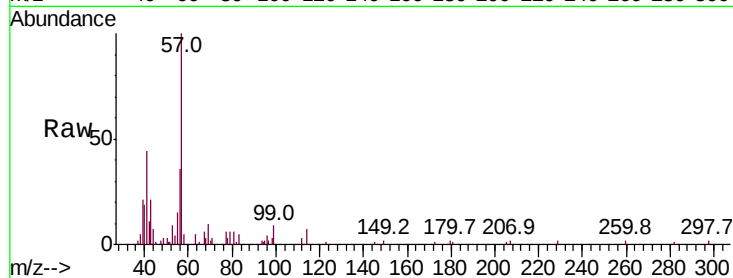




#44
 2,2,4-Trimethylpentane
 Concen: 0.040 ppbv
 RT: 8.00 min Scan# 1576
 Delta R.T. -0.00 min
 Lab File: VL032796.D
 Acq: 21 Nov 2018 2:36

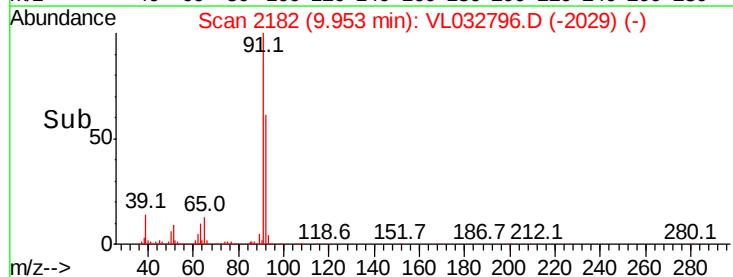
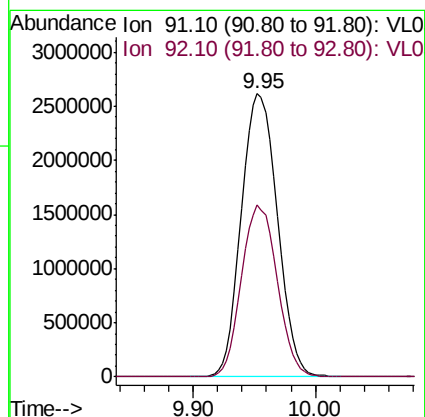
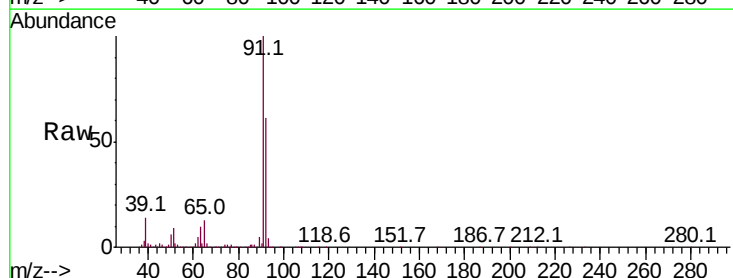
Instrument :
 MSVOA_L
 ClientSampleId :

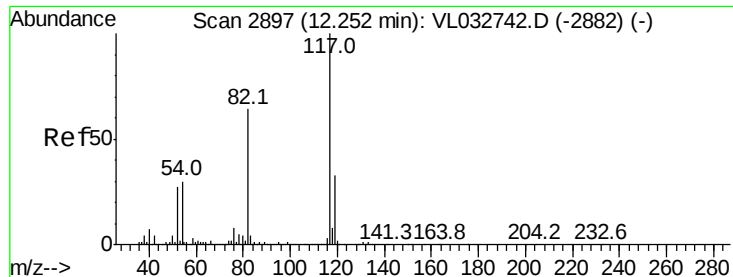
Tot Ion: 57 Resp: 17772
 Ion Ratio Lower Upper
 57 100
 41 97.0 26.6 39.8#
 56 0.0 24.8 37.2#



#53
 Toluene
 Concen: 19.442 ppbv
 RT: 9.95 min Scan# 2182
 Delta R.T. -0.01 min
 Lab File: VL032796.D
 Acq: 21 Nov 2018 2:36

Tgt Ion: 91 Resp: 5352616
 Ion Ratio Lower Upper
 91 100
 92 60.3 47.9 71.9

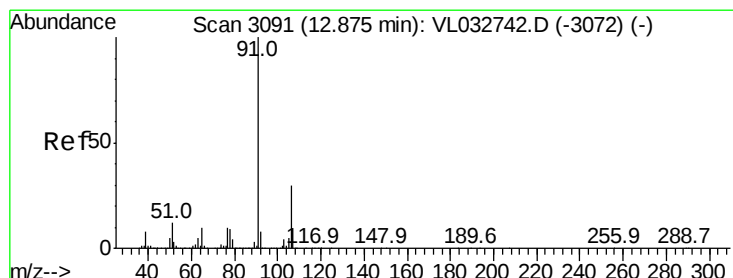
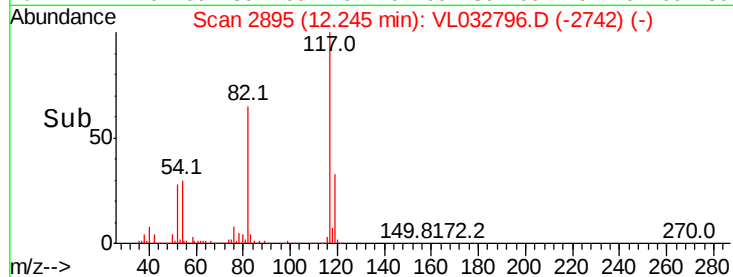
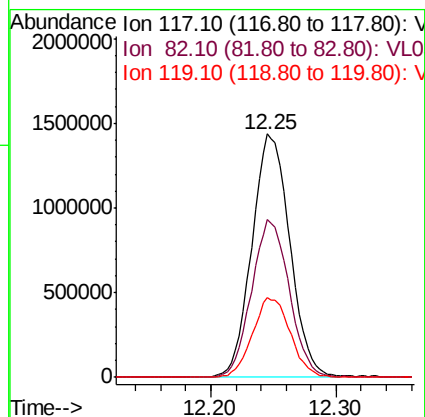
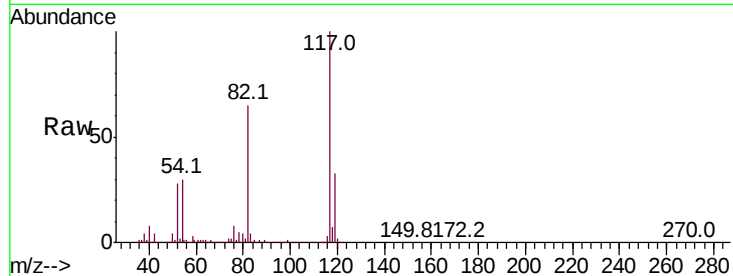




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2895
Delta R.T. -0.01 min
Lab File: VL032796.D
Acq: 21 Nov 2018 2:36

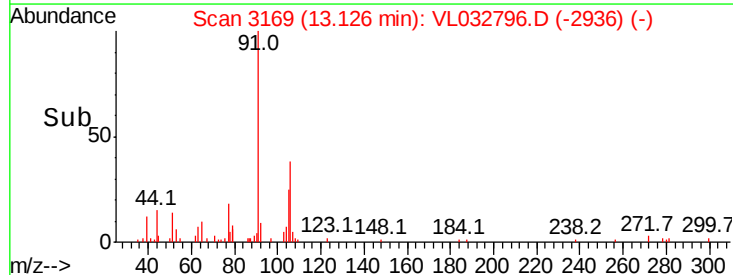
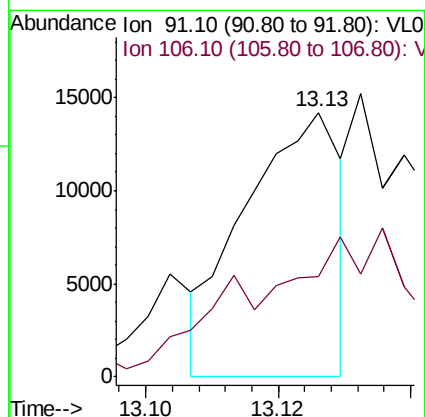
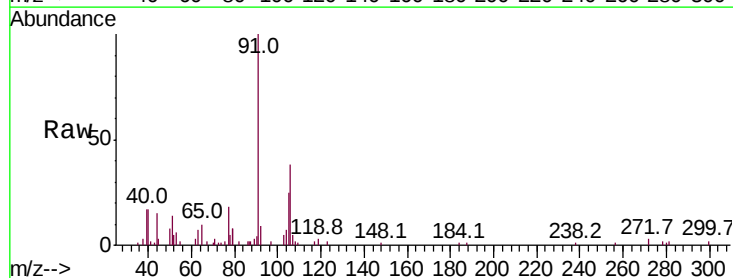
Instrument :
MSVOA_L
ClientSampleId :

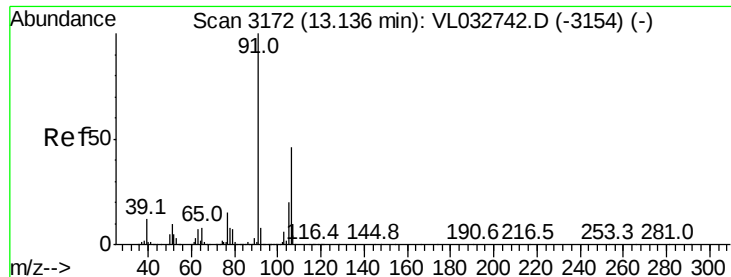
Tot Ion:117 Resp: 3020886
Ion Ratio Lower Upper
117 100
82 65.2 51.0 76.6
119 32.9 28.0 42.0



#58
Ethyl Benzene
Concen: 0.039 ppbv
RT: 13.13 min Scan# 3169
Delta R.T. 0.25 min
Lab File: VL032796.D
Acq: 21 Nov 2018 2:36

Tgt Ion: 91 Resp: 14250
Ion Ratio Lower Upper
91 100
106 28.4 23.6 35.4

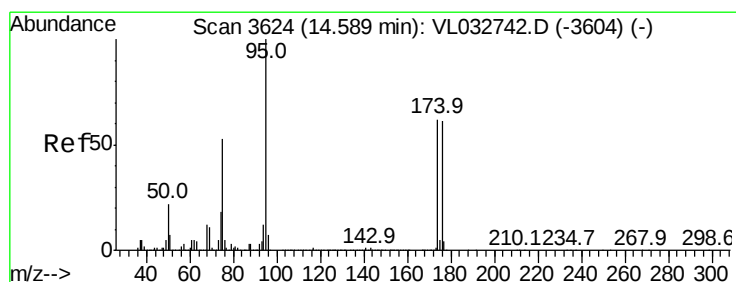
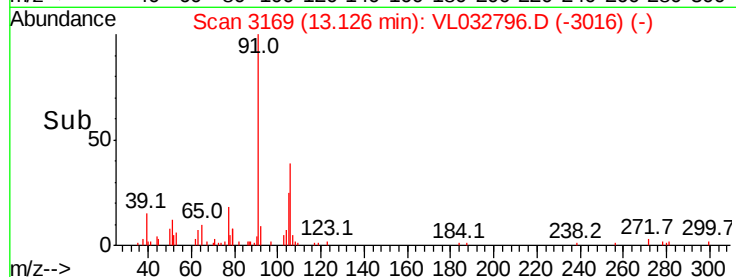
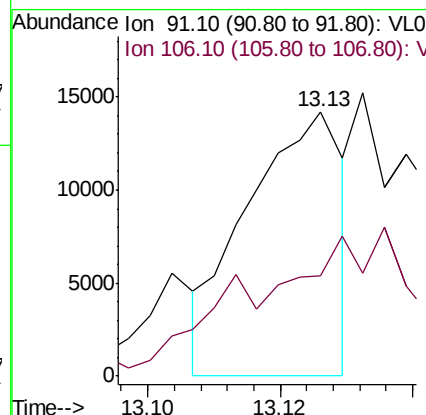
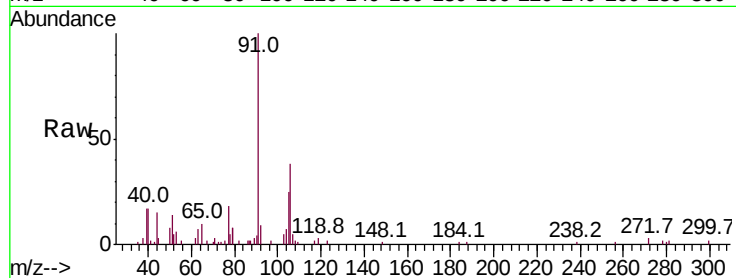




#59
m/p-Xylene
Concen: 0.044 ppbv
RT: 13.13 min Scan# 3169
Delta R.T. -0.01 min
Lab File: VL032796.D
Acq: 21 Nov 2018 2:36

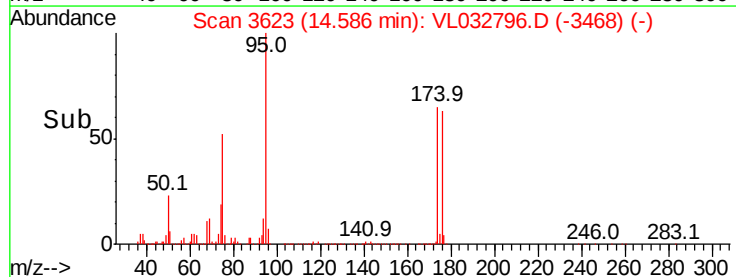
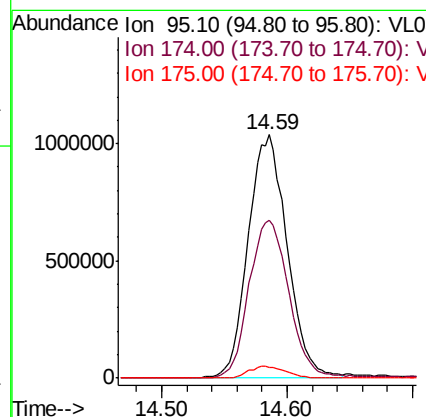
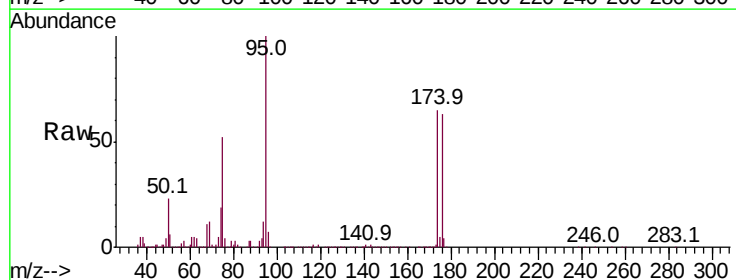
Instrument :
MSVOA_L
ClientSampleId :

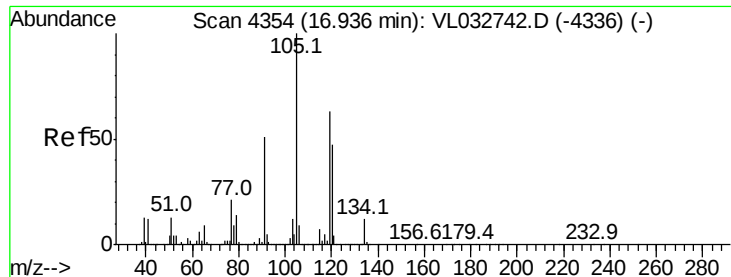
Tot Ion: 91 Resp: 14250
Ion Ratio Lower Upper
91 100
106 0.0 36.1 54.1#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.926 ppbv
RT: 14.59 min Scan# 3623
Delta R.T. -0.00 min
Lab File: VL032796.D
Acq: 21 Nov 2018 2:36

Tgt Ion: 95 Resp: 2242829
Ion Ratio Lower Upper
95 100
174 66.9 50.7 76.1
175 4.8 3.8 5.6





#74

1,2,4-Trimethylbenzene

Concen: 0.035 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. -0.01 min

Lab File: VL032796.D

Acq: 21 Nov 2018 2:36

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	105	Resp:	12963
Ion Ratio	Lower	Upper	
105	100		
120	46.3	37.6	56.4
91	13.9	42.5	63.7#
77	19.9	17.4	26.2

