

Data File : VL032877.D
Acq On : 4 Dec 2018 15:26
Operator : SY/AP
Sample : J6175-01
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
MMSV-06

Quant Time: Dec 05 05:46:47 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	5.78	49	1263990	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	3410153	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3599508	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2867712	10.65	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.50%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.08	85	54417	0.299	ppbv	97
3) Chlorodifluoromethane	3.02	51	53757	0.536	ppbv	96
4) Chloromethane	3.18	50	30699	0.552	ppbv	93
7) Chloroethane	3.61	64	2121	0.100	ppbv #	68
9) Propene	3.04	41	3699857	92.260	ppbv	97
10) Heptane	8.27	43	5950719	38.868	ppbv	100
11) Trichlorofluoromethane	4.02	101	44499	0.260	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.57	101	9062	0.065	ppbv	100
13) Ethanol	3.66	45	407504	31.024	ppbv	100
15) Acetone	3.90	43	7378956	63.925	ppbv	93
16) 1,3-Butadiene	3.35	39	4314184	96.510	ppbv #	19
17) tert-Butyl alcohol	4.42	59	1866	0.052	ppbv #	73
19) Isopropyl Alcohol	4.04	45	36876	0.480	ppbv #	95
20) Methylene Chloride	4.43	84	124402	2.082	ppbv #	94
21) Allyl Chloride	4.48	41	119898	1.236	ppbv #	19
23) Vinyl Acetate	5.15	43	1332530	6.333	ppbv #	1
24) 1,1-Dichloroethane	5.15	63	9637	0.058	ppbv #	88
25) Ethyl Acetate	5.80	43	2763764	10.273	ppbv #	77
26) Hexane	5.80	57	3936935	32.873	ppbv #	41
27) Carbon Disulfide	4.63	76	7559771	49.782	ppbv	98
28) Methyl tert-Butyl Ether	5.04	73	6642	0.035	ppbv #	1
29) Chloroform	5.87	83	166734	0.781	ppbv	97
30) Cyclohexane	7.26	84	1676531	16.006	ppbv #	71
34) 2-Butanone	5.34	43	13912261	78.657	ppbv #	90
35) Carbon Tetrachloride	7.16	117	14228	0.052	ppbv #	86
36) Benzene	7.02	78	5649085	20.803	ppbv	98
38) Trichloroethene	7.98	130	4719	0.043	ppbv #	60
39) 1,2-Dichloropropane	7.94	63	10143	0.098	ppbv #	1
41) Tetrahydrofuran	6.15	42	2107672	20.774	ppbv	97
42) Bromodichloromethane	7.94	83	328317	1.325	ppbv #	26
43) Methyl Methacrylate	8.13	69	24404	0.241	ppbv #	1
44) 2,2,4-Trimethylpentane	8.01	57	1223126	2.695	ppbv #	12
50) 4-Methyl-2-Pentanone	8.89	43	306845	1.111	ppbv	99
51) 2-Hexanone	10.27	43	2995369	16.830	ppbv #	71
52) Tetrachloroethene	11.39	164	5425	0.057	ppbv #	79
53) Toluene	9.96	91	5869194	20.717	ppbv	99
57) Chlorobenzene	12.35	112	483818	1.756	ppbv #	32
58) Ethyl Benzene	12.88	91	1968079	4.543	ppbv	99
59) m/p-Xylene	13.14	91	3752069	9.730	ppbv	97
60) o-Xylene	13.86	91	1650139	4.256	ppbv	98
61) Styrene	13.70	104	140638	0.557	ppbv	96

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Quant Time: Dec 05 05:46:47 2018
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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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) Isopropylbenzene	14.84	105	317972	0.607	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.85	83	11063	0.037	ppbv #	25
64) n-propylbenzene	15.74	120	78079	0.566	ppbv	83
65) tert-Butylbenzene	16.94	119	36252	0.077	ppbv #	1
67) sec-Butylbenzene	17.47	105	133106	0.197	ppbv	96
69) p-Isopropyltoluene	17.83	119	42729	0.079	ppbv #	44
70) n-Butylbenzene	18.73	91	42074	0.077	ppbv #	47
71) 2-Chlorotoluene	15.74	91	389061	0.995	ppbv #	52
72) 4-Ethyltoluene	16.01	105	330169	0.777	ppbv	97
73) 1,3,5-Trimethylbenzene	16.17	105	319760	0.769	ppbv	90
74) 1,2,4-Trimethylbenzene	16.94	105	592956	1.333	ppbv #	70
76) 1,4-Dichlorobenzene	17.32	146	8319	0.035	ppbv #	23
78) Hexachloro-1,3-Butadiene	23.55	225	5054	0.040	ppbv #	50
80) Naphthalene,2-methyl-	25.13	142	3408	0.047	ppbv #	63

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

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ClientSampleId :
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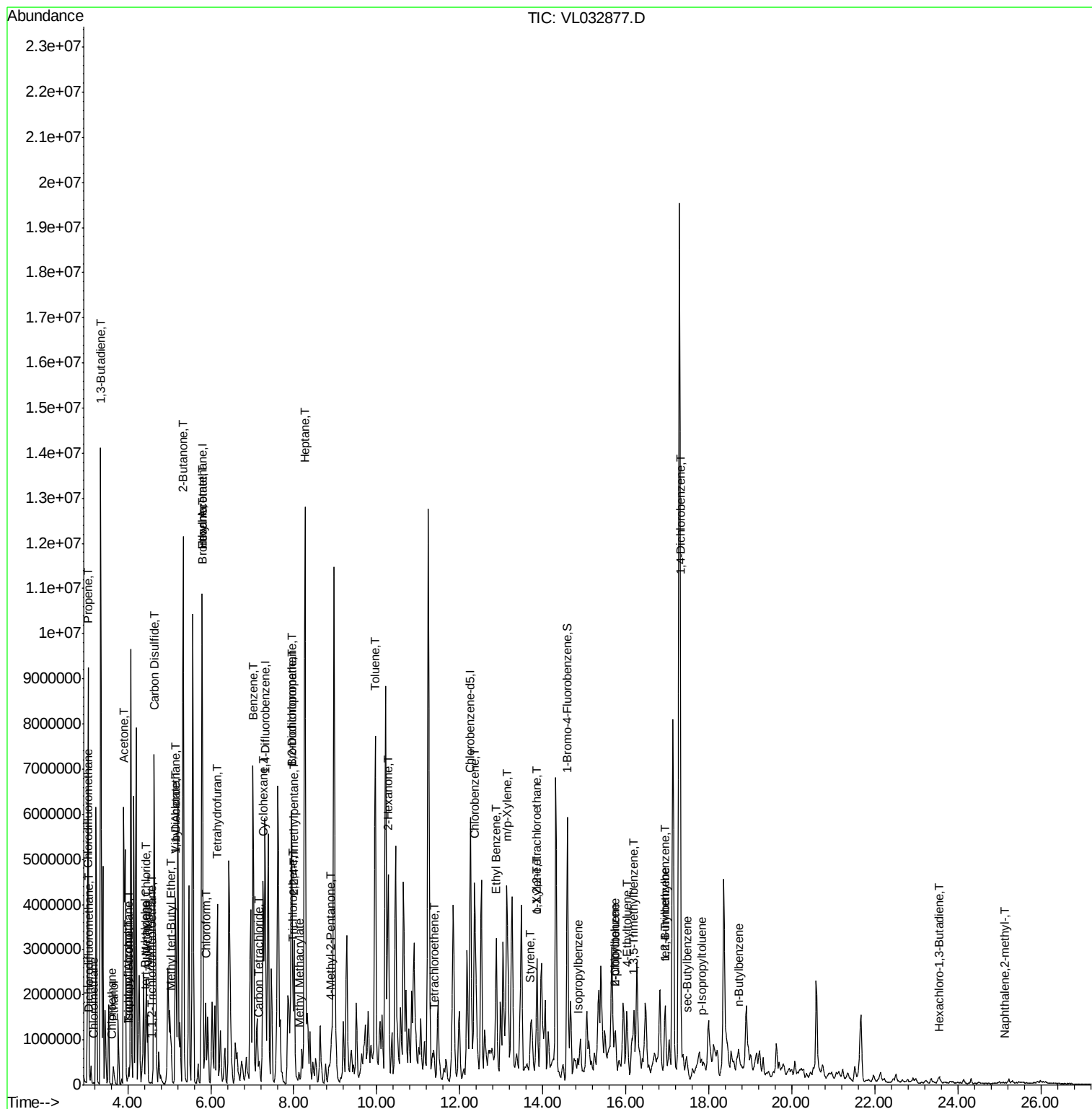
Quant Time: Dec 05 05:46:47 2018

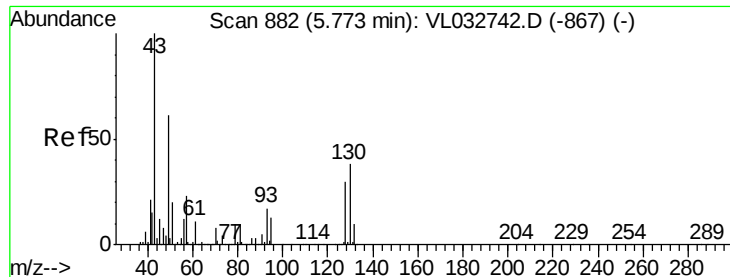
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_L\METHODS\VL111418AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed 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: 5.78 min Scan# 884

Delta R.T. 0.01 min

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Instrument :

MSVOA_L

ClientSampleId :

MMSV-06

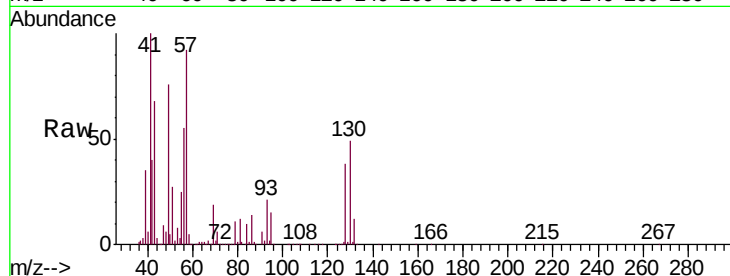
Tgt Ion: 49 Resp: 1263990

Ion Ratio Lower Upper

49 100

128 51.8 24.9 74.6

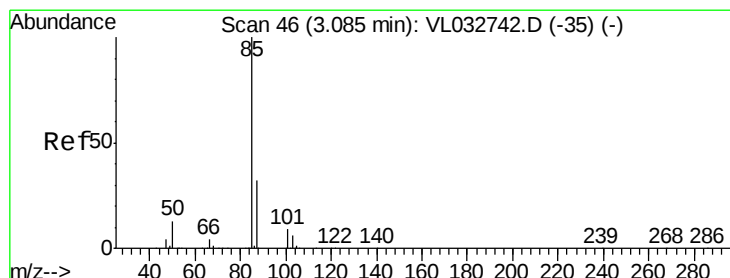
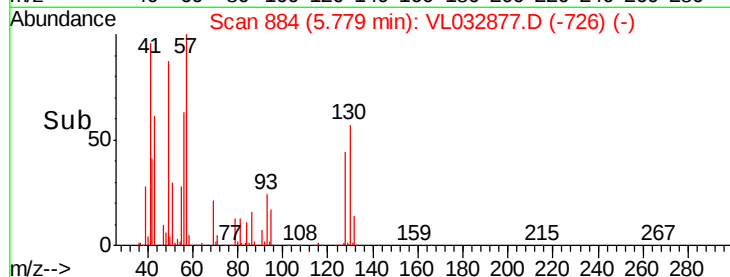
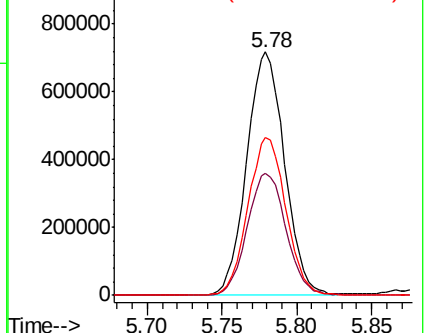
130 65.3 31.4 94.2



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: 0.299 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.01 min

Lab File: VL032877.D

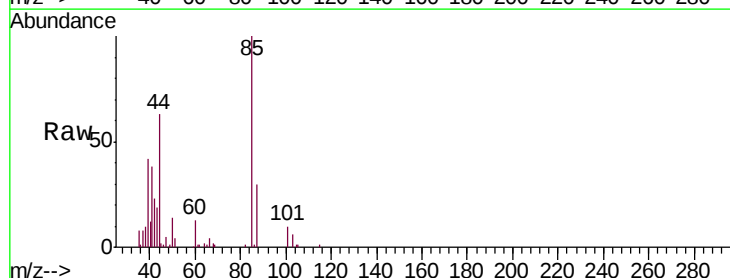
Acq: 4 Dec 2018 15:26

Tgt Ion: 85 Resp: 54417

Ion Ratio Lower Upper

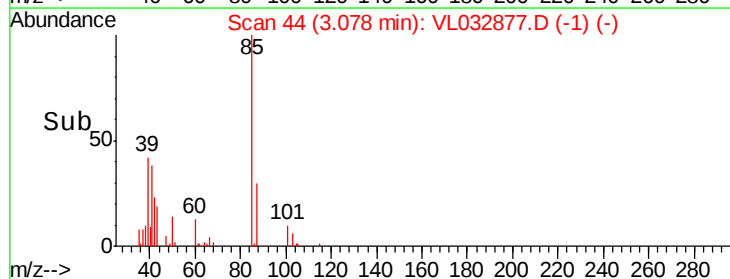
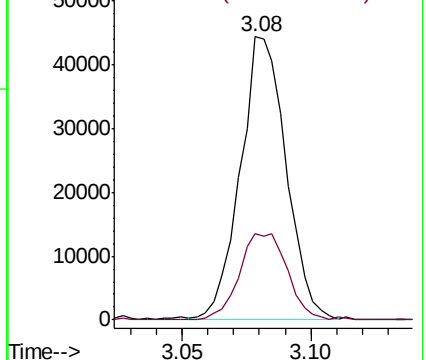
85 100

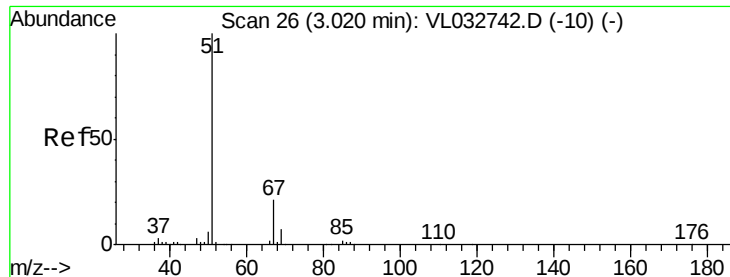
87 30.6 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.536 ppbv

RT: 3.02 min Scan# 26

Delta R.T. 0.00 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

Instrument :

MSVOA_L

ClientSampleId :

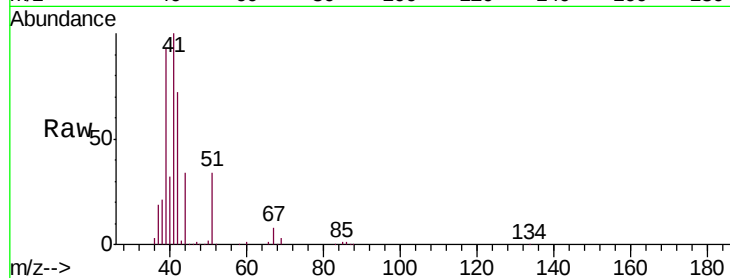
MMSV-06

Tgt Ion: 51 Resp: 53757

Ion Ratio Lower Upper

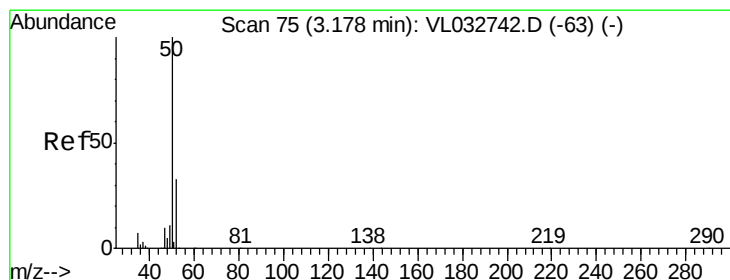
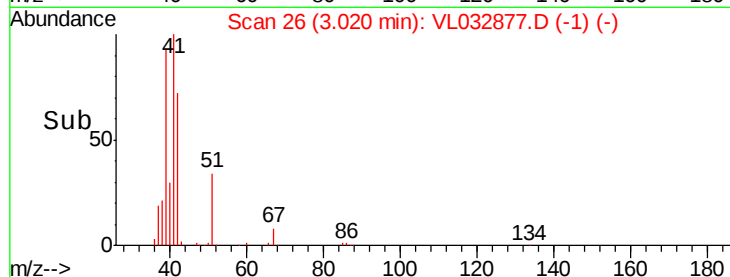
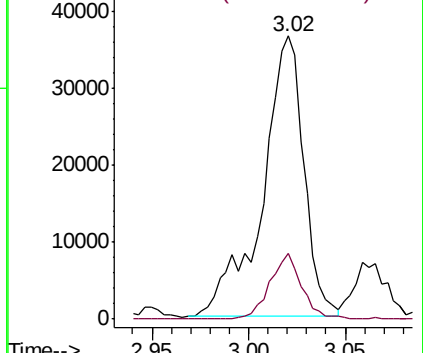
51 100

67 18.1 16.1 24.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.552 ppbv

RT: 3.18 min Scan# 75

Delta R.T. 0.00 min

Lab File: VL032877.D

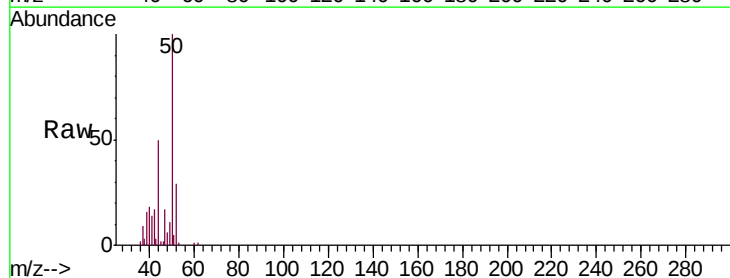
Acq: 4 Dec 2018 15:26

Tgt Ion: 50 Resp: 30699

Ion Ratio Lower Upper

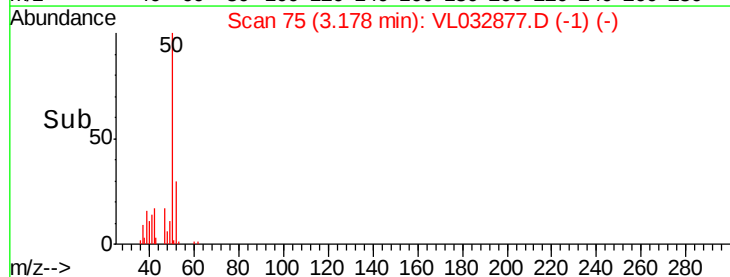
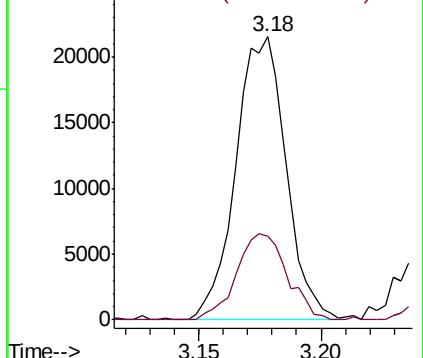
50 100

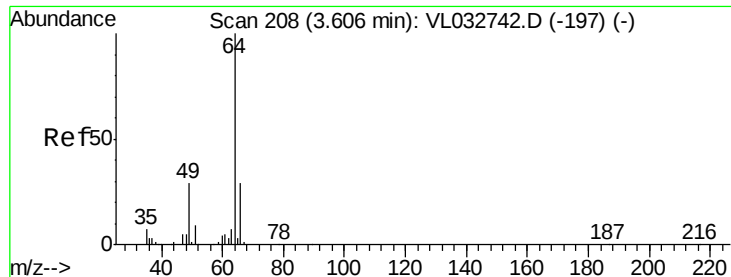
52 29.5 26.6 40.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 0.100 ppbv

RT: 3.61 min Scan# 209

Delta R.T. 0.00 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

Instrument :

MSVOA_L

ClientSampleId :

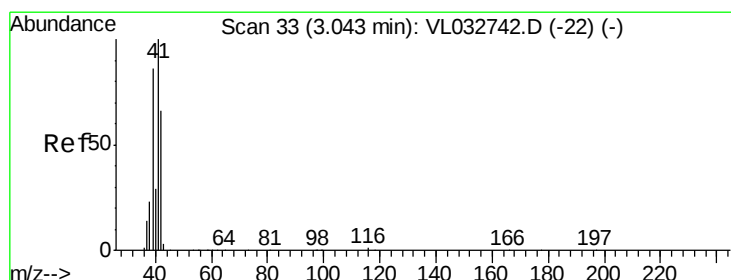
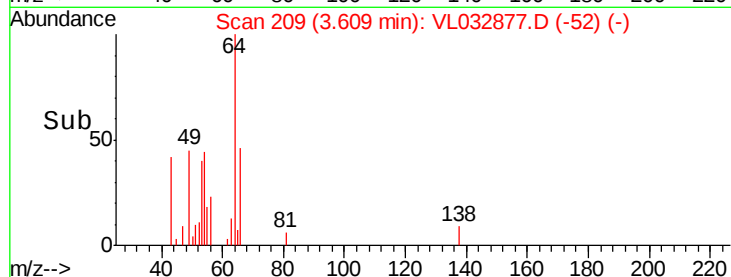
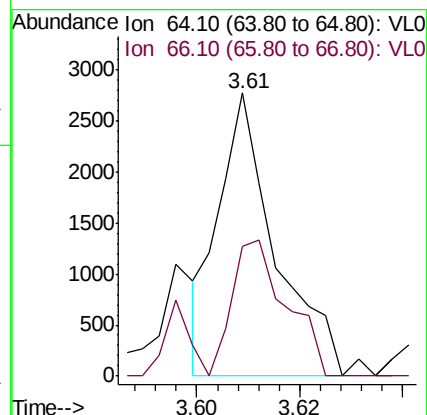
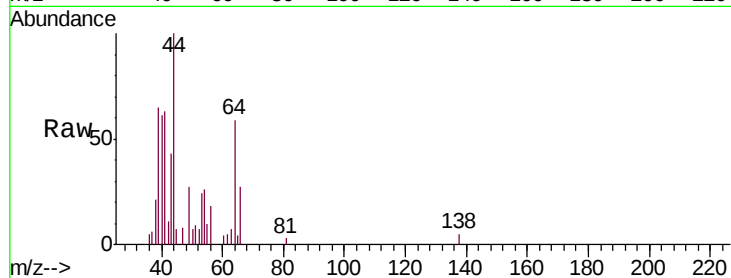
MMSV-06

Tgt Ion: 64 Resp: 2121

Ion Ratio Lower Upper

64 100

66 45.8 23.2 34.8#



#9

Propene

Concen: 92.260 ppbv

RT: 3.04 min Scan# 33

Delta R.T. 0.00 min

Lab File: VL032877.D

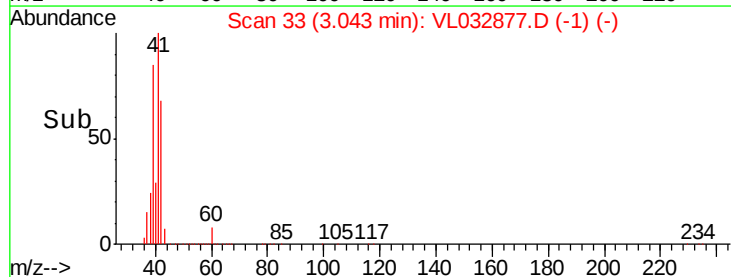
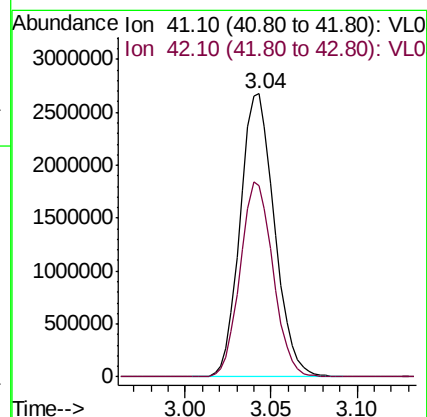
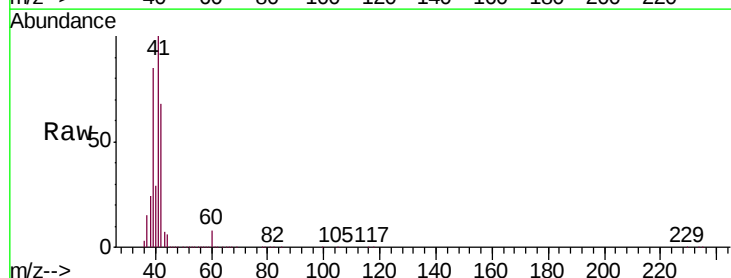
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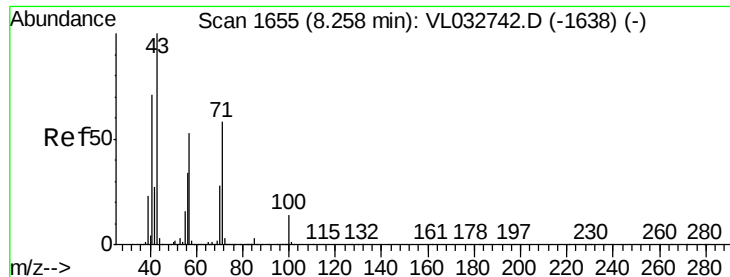
Tgt Ion: 41 Resp: 3699857

Ion Ratio Lower Upper

41 100

42 66.4 55.0 82.6

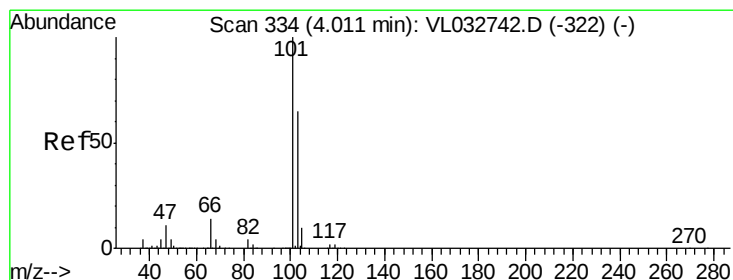
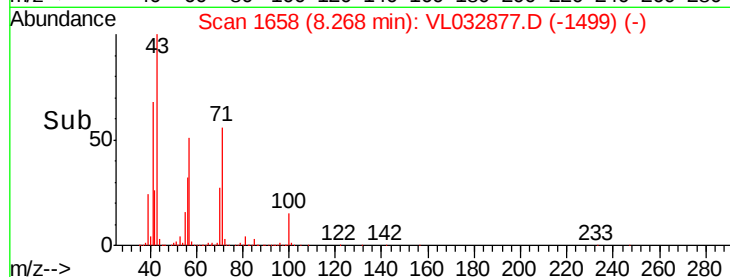
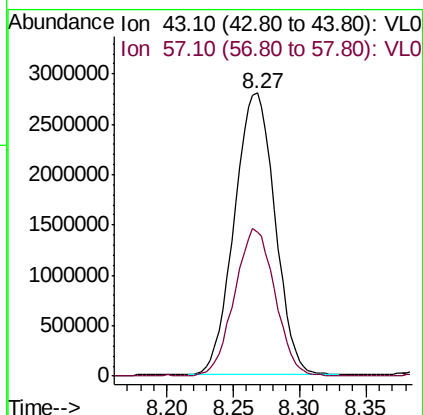
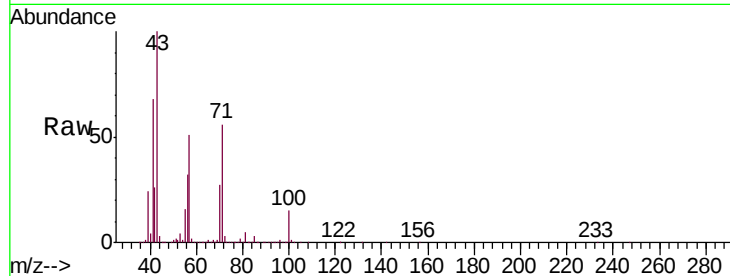




#10
 Heptane
 Concen: 38.868 ppbv
 RT: 8.27 min Scan# 1658
 Delta R.T. 0.01 min
 Lab File: VL032877.D
 Acq: 4 Dec 2018 15:26

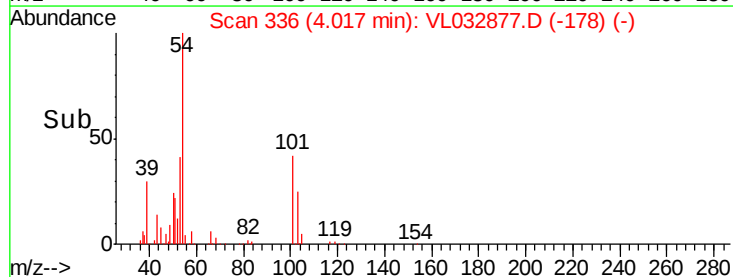
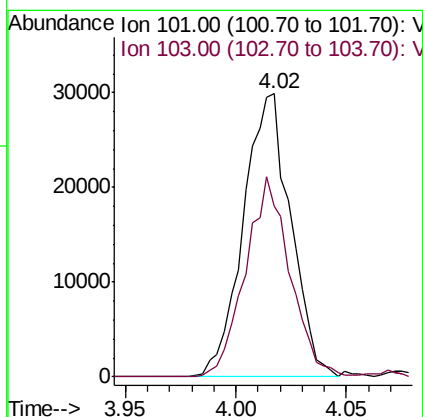
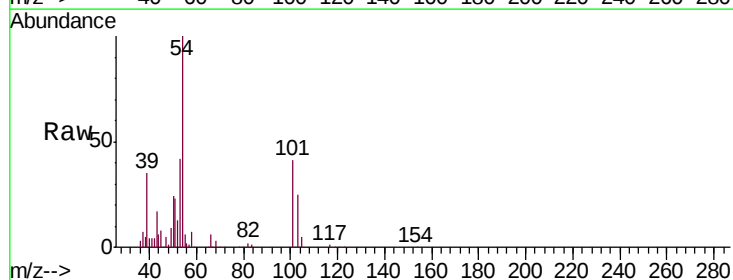
Instrument :
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 MMSV-06

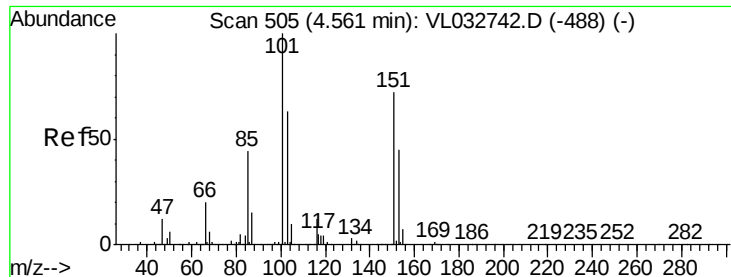
Tgt Ion: 43 Resp: 5950719
 Ion Ratio Lower Upper
 43 100
 57 52.4 41.8 62.8



#11
 Trichlorofluoromethane
 Concen: 0.260 ppbv
 RT: 4.02 min Scan# 336
 Delta R.T. 0.01 min
 Lab File: VL032877.D
 Acq: 4 Dec 2018 15:26

Tgt Ion: 101 Resp: 44499
 Ion Ratio Lower Upper
 101 100
 103 60.3 51.6 77.4





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.065 ppbv

RT: 4.57 min Scan# 507

Delta R.T. 0.01 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

Instrument :

MSVOA_L

ClientSampleId :

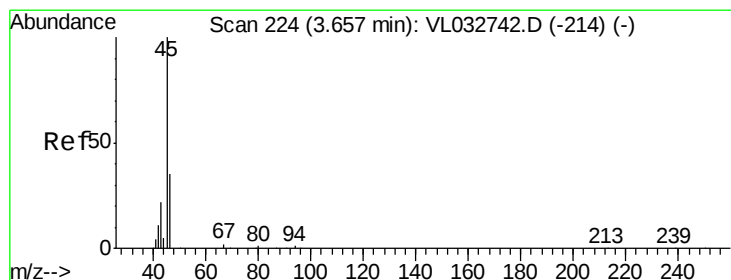
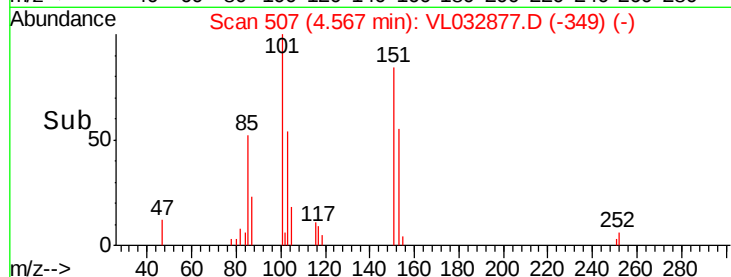
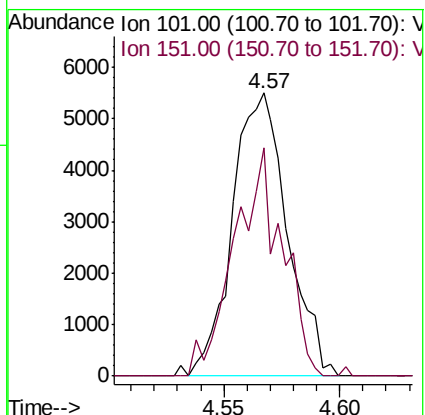
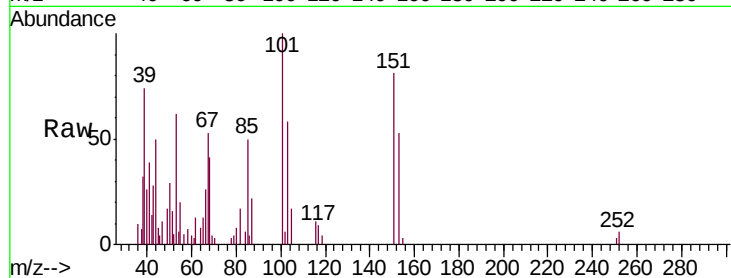
MMSV-06

Tgt Ion:101 Resp: 9062

Ion Ratio Lower Upper

101 100

151 71.2 56.7 85.1



#13

Ethanol

Concen: 31.024 ppbv

RT: 3.66 min Scan# 224

Delta R.T. 0.00 min

Lab File: VL032877.D

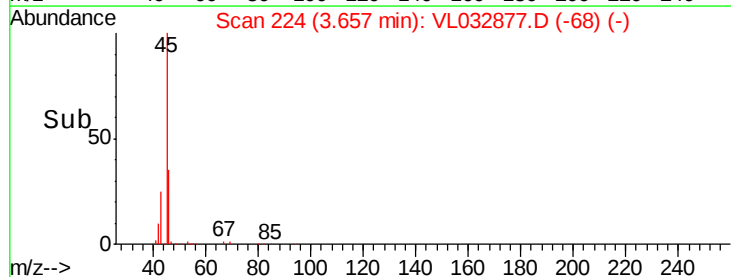
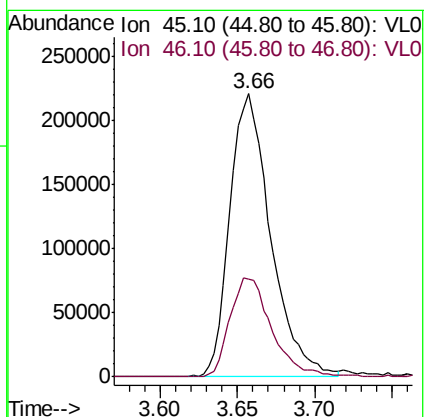
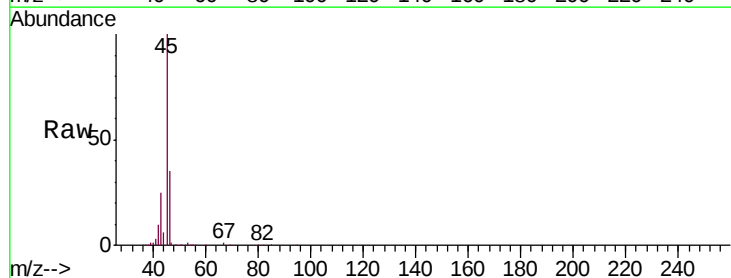
Acq: 4 Dec 2018 15:26

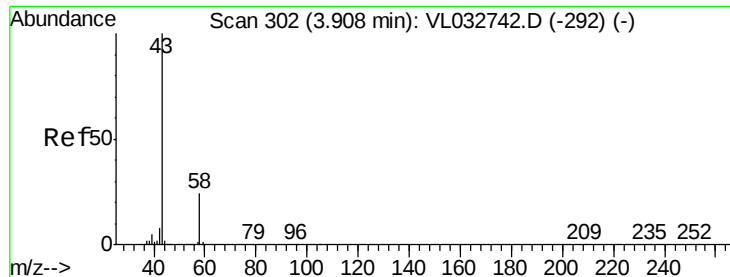
Tgt Ion: 45 Resp: 407504

Ion Ratio Lower Upper

45 100

46 36.1 14.5 57.9





#15

Acetone

Concen: 63.925 ppbv

RT: 3.90 min Scan# 301

Delta R.T. -0.00 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

Instrument :

MSVOA_L

ClientSampleId :

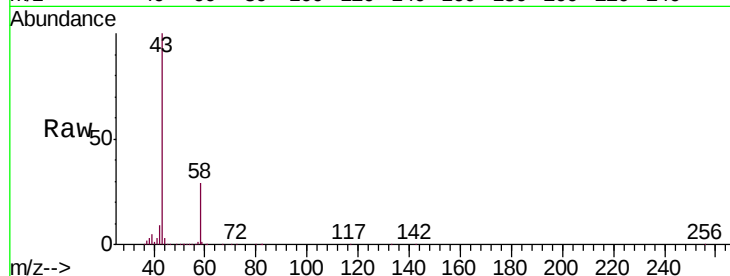
MMSV-06

Tgt Ion: 43 Resp: 7378956

Ion Ratio Lower Upper

43 100

58 30.1 21.1 31.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.90

4000000

3000000

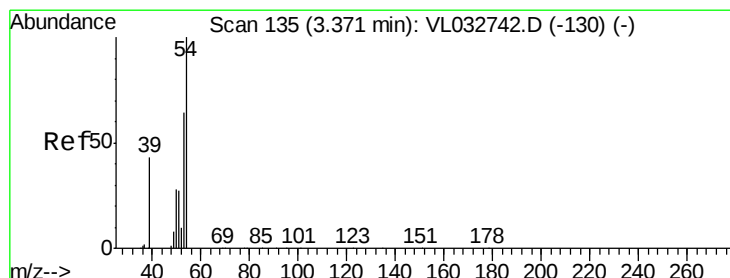
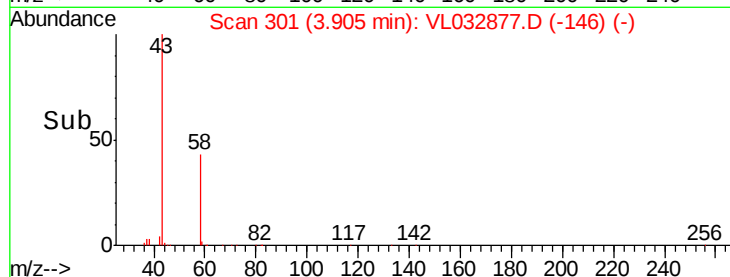
2000000

1000000

0

Time-->

3.85 3.90 3.95 4.00



#16

1,3-Butadiene

Concen: 96.510 ppbv

RT: 3.35 min Scan# 128

Delta R.T. -0.02 min

Lab File: VL032877.D

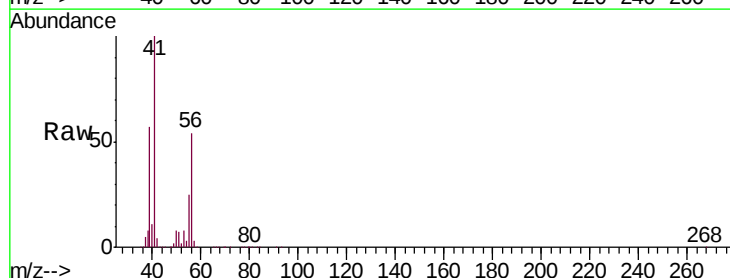
Acq: 4 Dec 2018 15:26

Tgt Ion: 39 Resp: 4314184

Ion Ratio Lower Upper

39 100

54 12.0 68.9 103.3#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.35

3000000

2500000

2000000

1500000

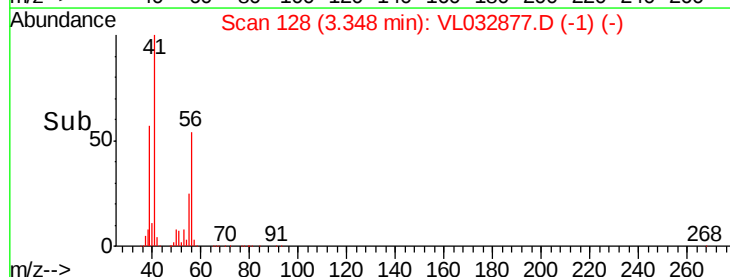
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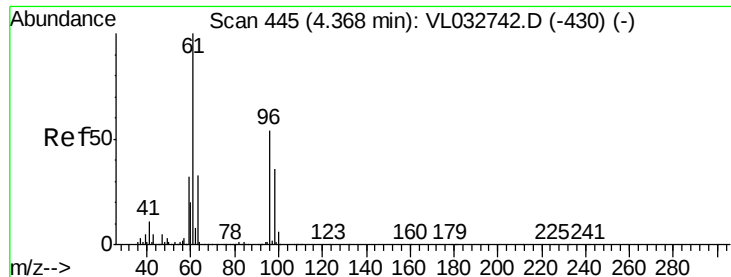
500000

0

Time-->

3.30 3.35 3.40





#17

tert-Butyl alcohol

Concen: 0.052 ppbv

RT: 4.42 min Scan# 461

Delta R.T. 0.05 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

Instrument :

MSVOA_L

ClientSampleId :

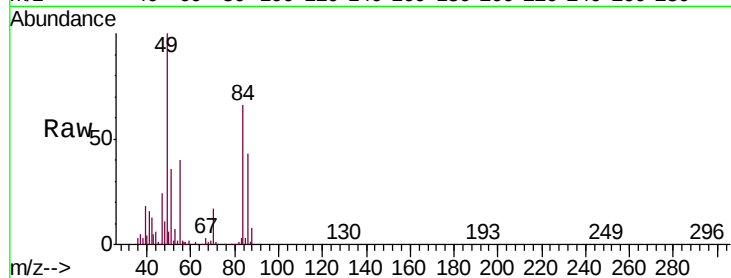
MMSV-06

Tgt Ion: 59 Resp: 1866

Ion Ratio Lower Upper

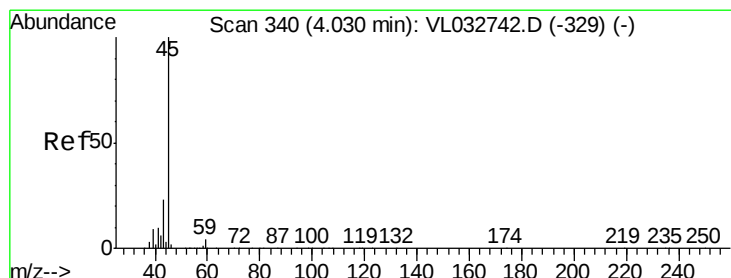
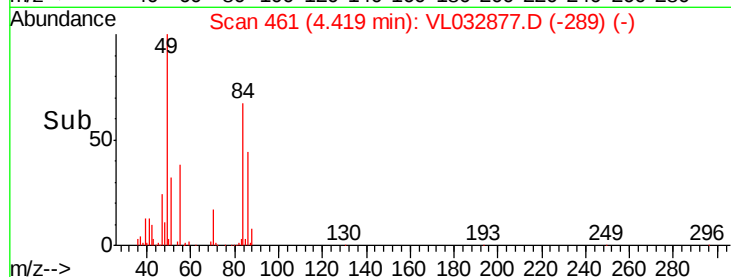
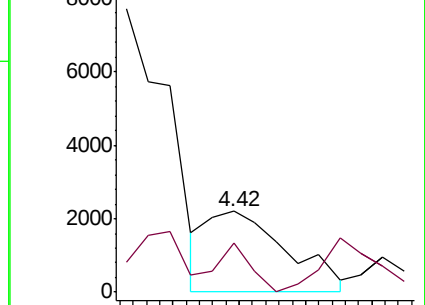
59 100

57 0.0 7.8 11.8#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#19

Isopropyl Alcohol

Concen: 0.480 ppbv

RT: 4.04 min Scan# 342

Delta R.T. 0.01 min

Lab File: VL032877.D

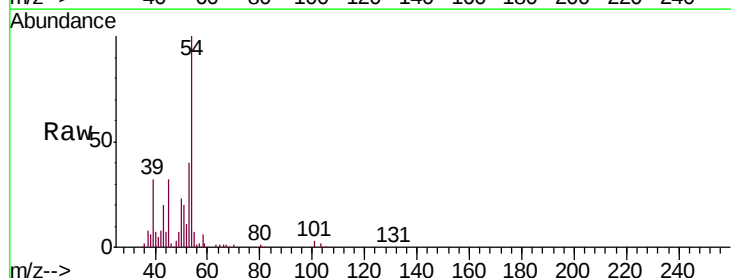
Acq: 4 Dec 2018 15:26

Tgt Ion: 45 Resp: 36876

Ion Ratio Lower Upper

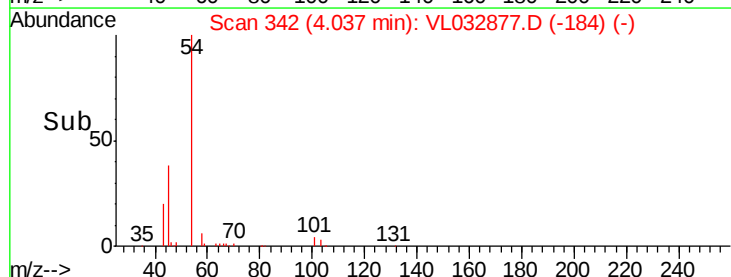
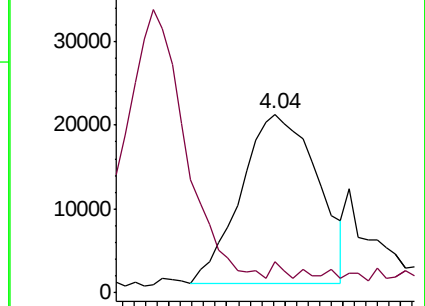
45 100

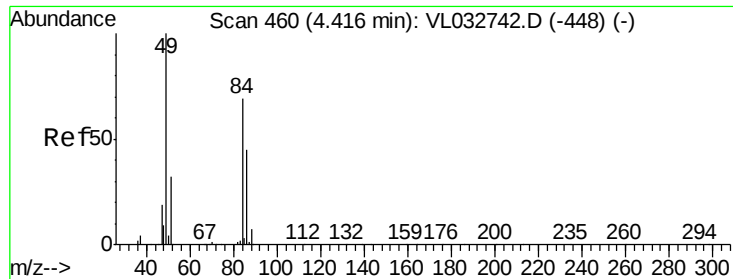
58 0.0 1.4 2.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

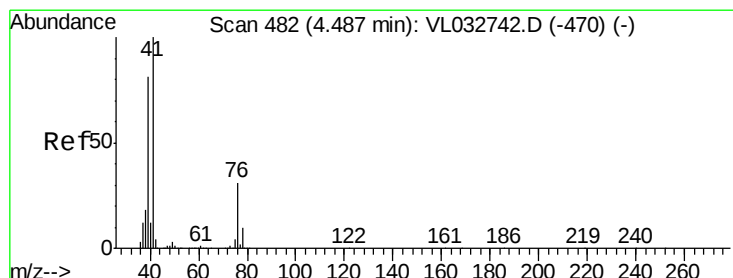
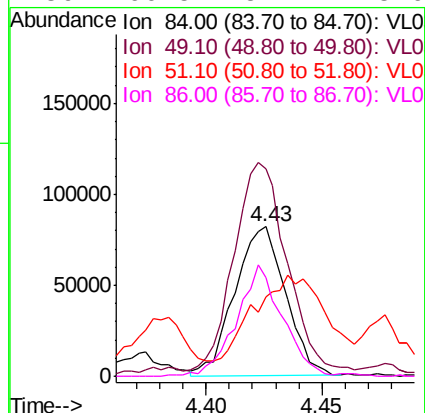
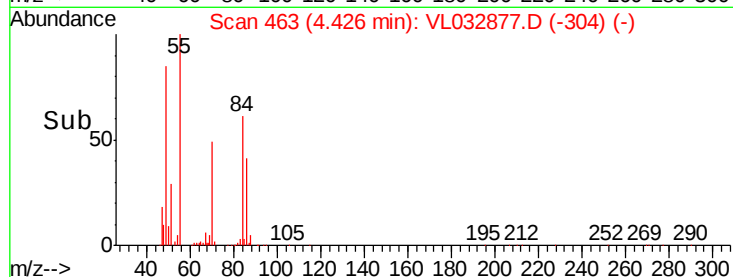
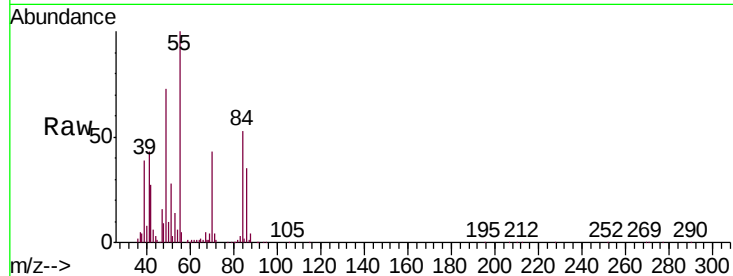




#20
Methylene Chloride
Concen: 2.082 ppbv
RT: 4.43 min Scan# 463
Delta R.T. 0.01 min
Lab File: VL032877.D
Acq: 4 Dec 2018 15:26

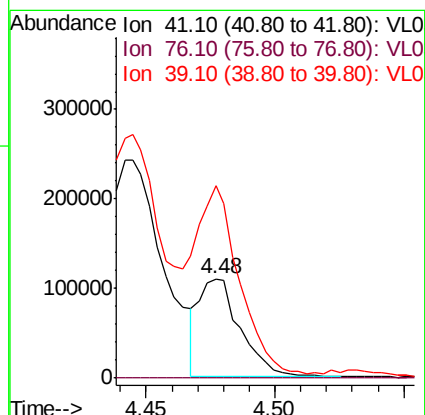
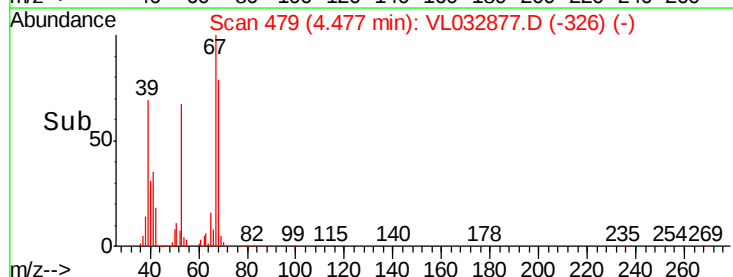
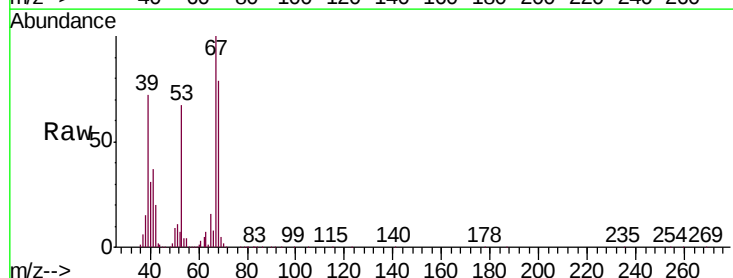
Instrument :
MSVOA_L
ClientSampleId :
MMSV-06

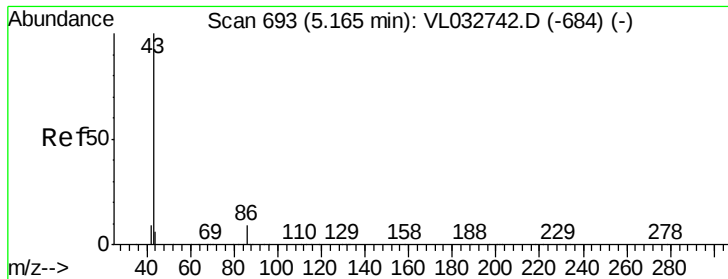
Tgt Ion: 84 Resp: 124402
Ion Ratio Lower Upper
84 100
49 138.4 115.8 173.6
51 35.7 36.9 55.3#
86 66.5 52.4 78.6



#21
Allyl Chloride
Concen: 1.236 ppbv
RT: 4.48 min Scan# 479
Delta R.T. -0.01 min
Lab File: VL032877.D
Acq: 4 Dec 2018 15:26

Tgt Ion: 41 Resp: 119898
Ion Ratio Lower Upper
41 100
76 0.0 24.4 36.6#
39 0.0 63.5 95.3#





#23

Vinyl Acetate

Concen: 6.333 ppbv

RT: 5.15 min Scan# 688

Delta R.T. -0.02 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

Instrument :

MSVOA_L

ClientSampleId :

MMSV-06

Tgt Ion: 43 Resp: 1332530

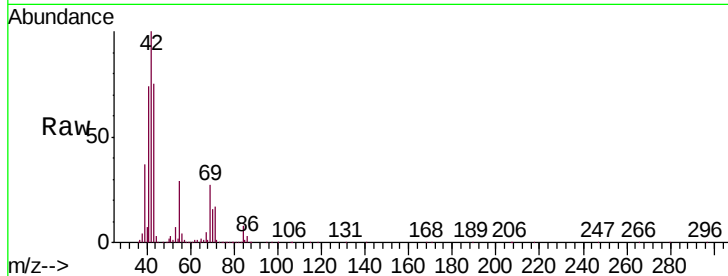
Ion Ratio Lower Upper

43 100

86 4.4 6.2 9.4#

42 134.2 7.8 11.6#

44 2.8 4.4 6.6#

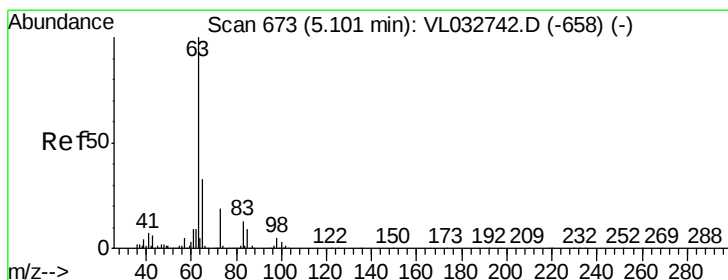
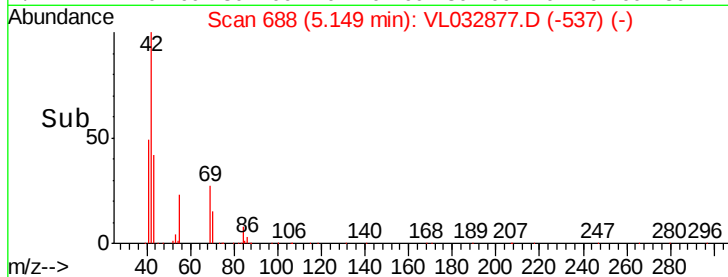
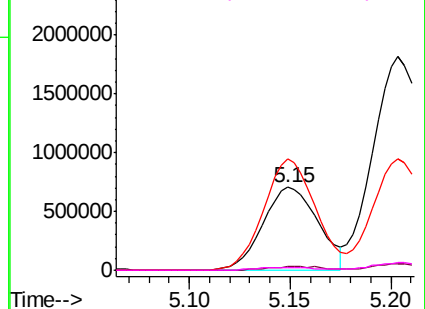


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#24

1,1-Dichloroethane

Concen: 0.058 ppbv

RT: 5.15 min Scan# 689

Delta R.T. 0.05 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

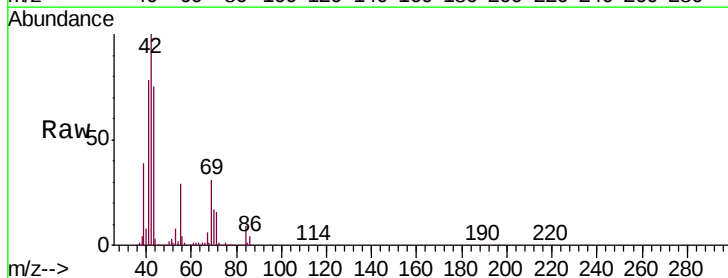
Tgt Ion: 63 Resp: 9637

Ion Ratio Lower Upper

63 100

98 0.0 2.3 6.8#

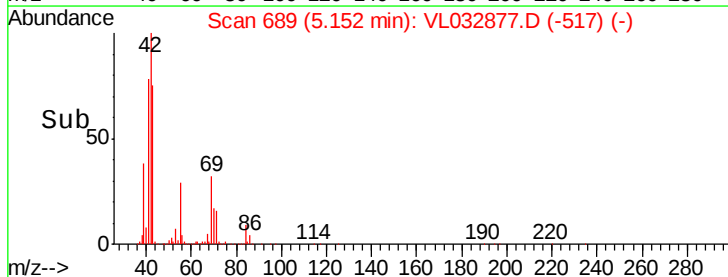
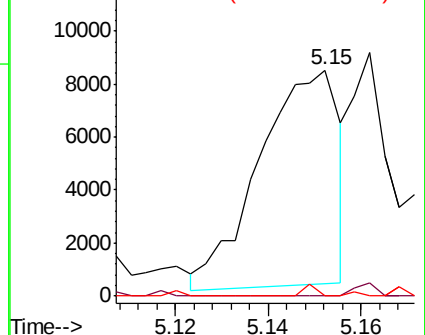
100 0.0 1.4 4.2#

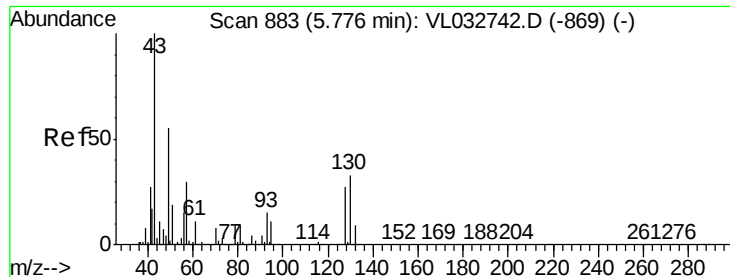


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

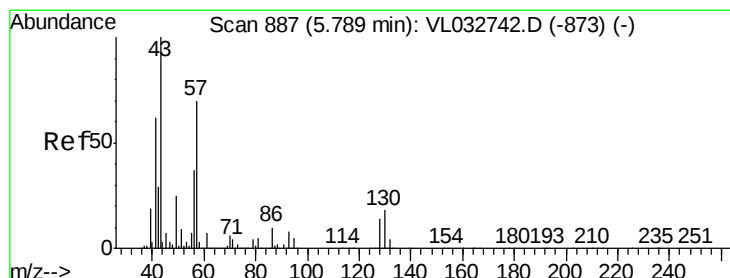
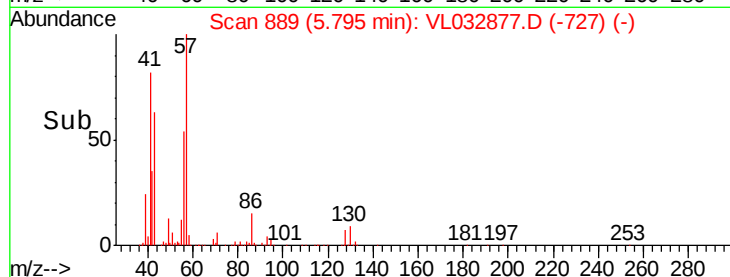
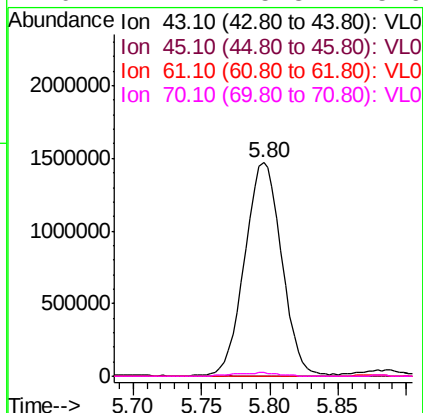
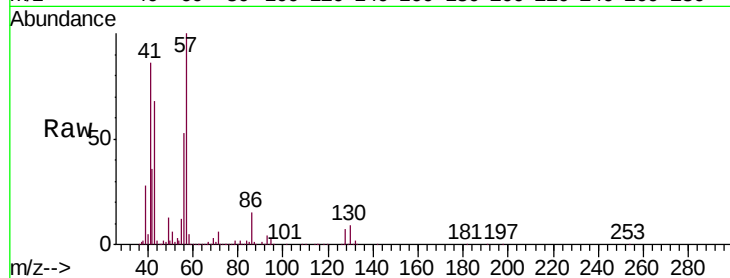




#25
Ethyl Acetate
Concen: 10.273 ppbv
RT: 5.80 min Scan# 889
Delta R.T. 0.02 min
Lab File: VL032877.D
Acq: 4 Dec 2018 15:26

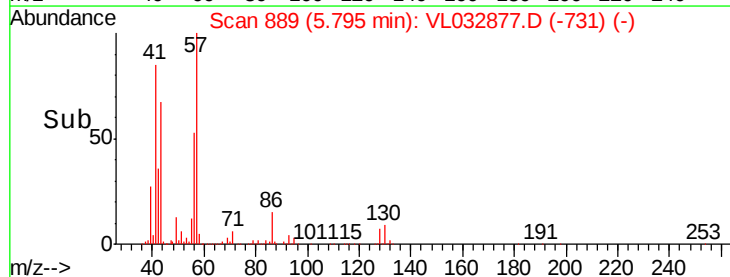
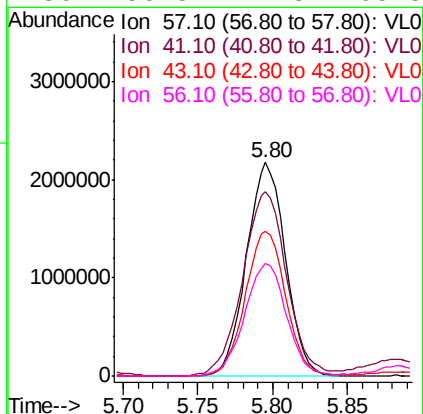
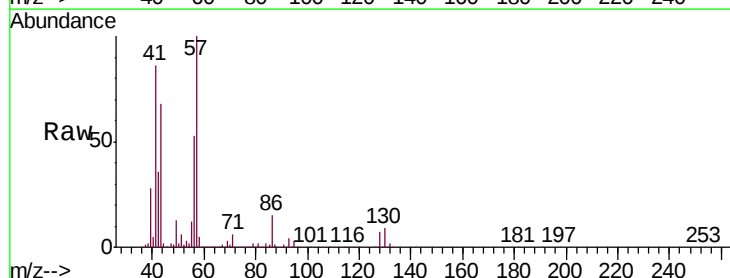
Instrument :
MSVOA_L
ClientSampleId :
MMSV-06

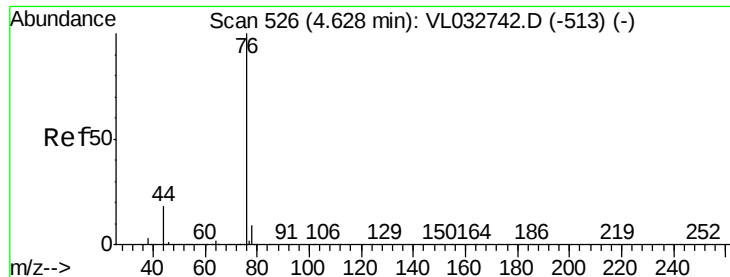
Tgt Ion: 43 Resp: 2763764
Ion Ratio Lower Upper
43 100
45 0.5 7.9 11.9#
61 0.3 7.8 11.6#
70 2.1 5.8 8.6#



#26
Hexane
Concen: 32.873 ppbv
RT: 5.80 min Scan# 889
Delta R.T. 0.01 min
Lab File: VL032877.D
Acq: 4 Dec 2018 15:26

Tgt Ion: 57 Resp: 3936935
Ion Ratio Lower Upper
57 100
41 97.2 70.3 105.5
43 70.0 174.0 261.0#
56 56.8 42.3 63.5





#27

Carbon Disulfide

Concen: 49.782 ppbv

RT: 4.63 min Scan# 528

Delta R.T. 0.01 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

Instrument :

MSVOA_L

ClientSampleId :

MMSV-06

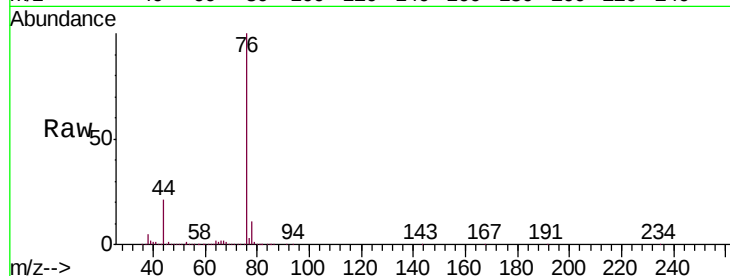
Tgt Ion: 76 Resp: 7559771

Ion Ratio Lower Upper

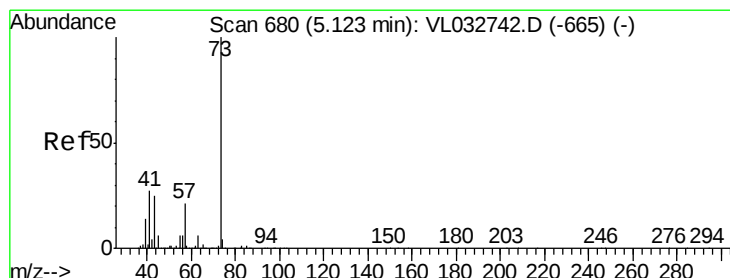
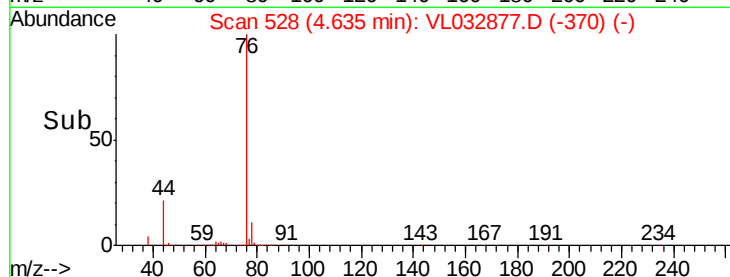
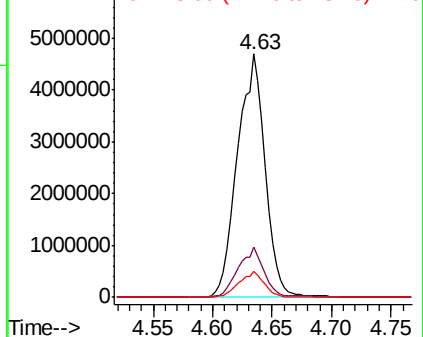
76 100

44 19.4 14.4 21.6

78 9.9 7.7 11.5



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 0.035 ppbv

RT: 5.04 min Scan# 655

Delta R.T. -0.08 min

Lab File: VL032877.D

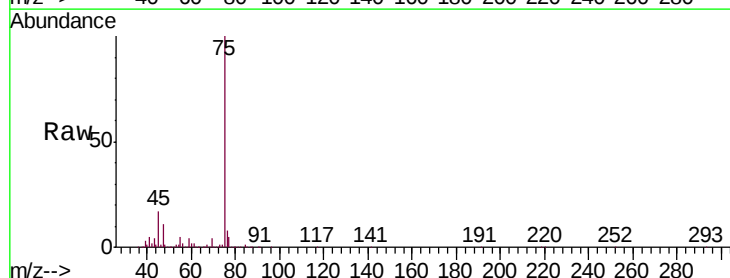
Acq: 4 Dec 2018 15:26

Tgt Ion: 73 Resp: 6642

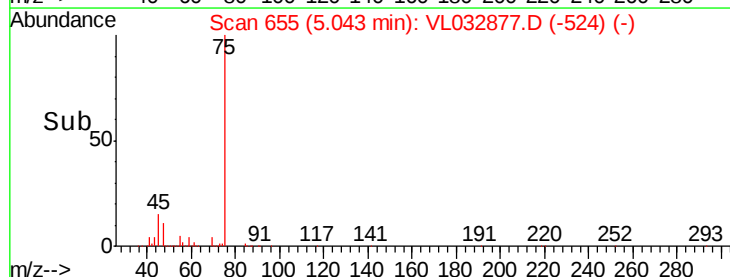
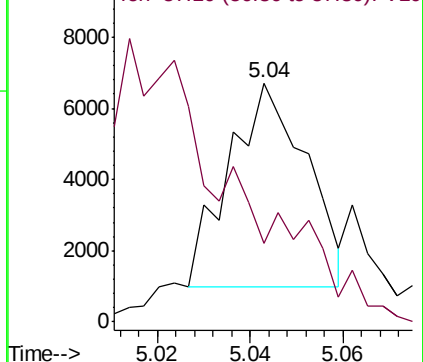
Ion Ratio Lower Upper

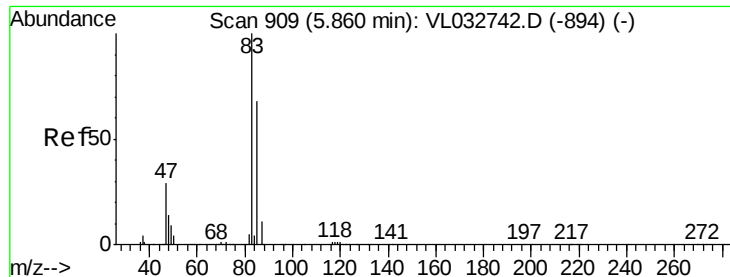
73 100

57 6593.3 17.5 26.3#



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 0.781 ppbv

RT: 5.87 min Scan# 912

Delta R.T. 0.01 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

Instrument :

MSVOA_L

ClientSampleId :

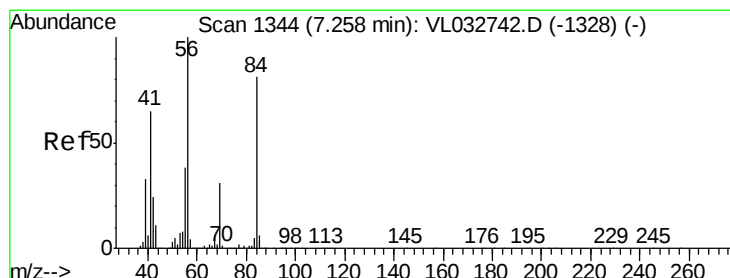
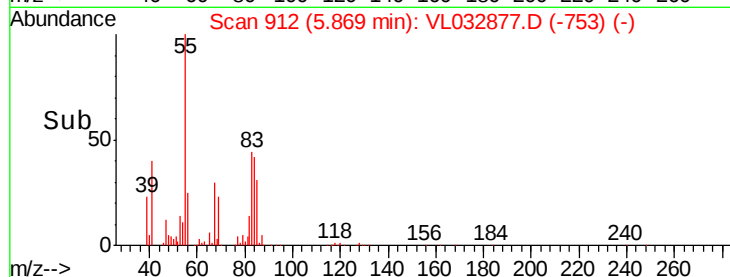
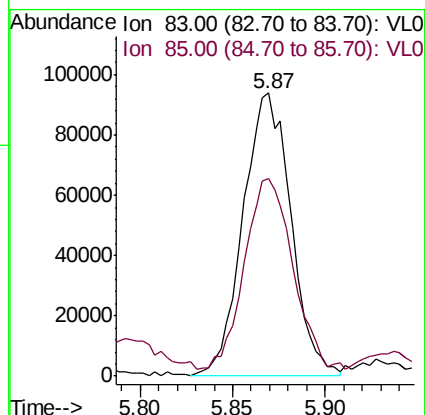
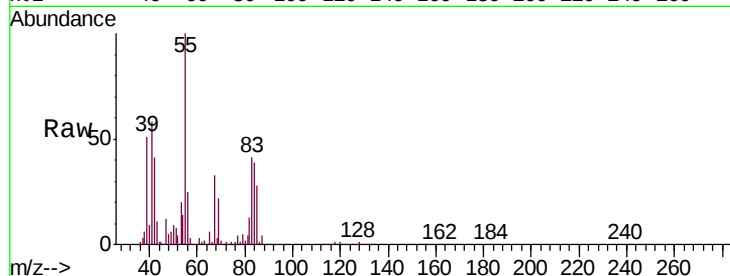
MMSV-06

Tgt Ion: 83 Resp: 166734

Ion Ratio Lower Upper

83 100

85 65.0 54.2 81.4



#30

Cyclohexane

Concen: 16.006 ppbv

RT: 7.26 min Scan# 1346

Delta R.T. 0.01 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

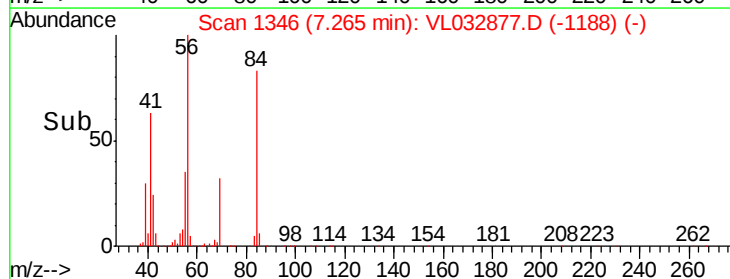
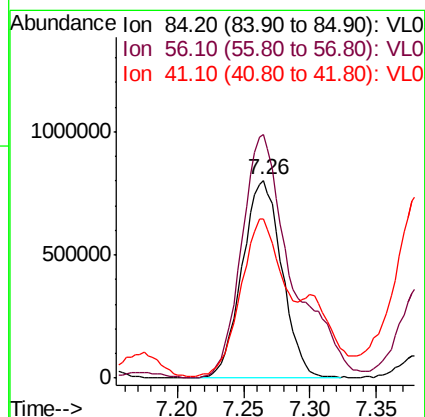
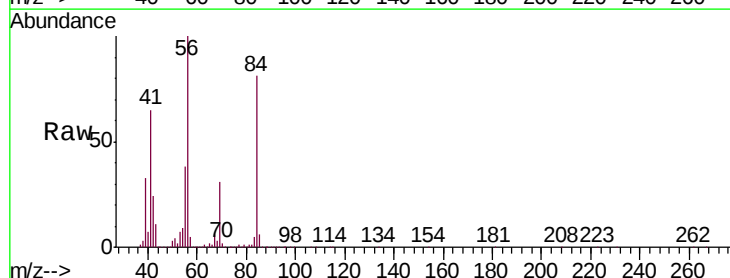
Tgt Ion: 84 Resp: 1676531

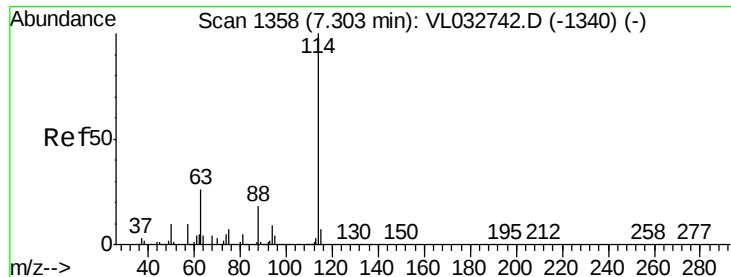
Ion Ratio Lower Upper

84 100

56 155.7 105.0 157.4

41 120.1 65.3 97.9#

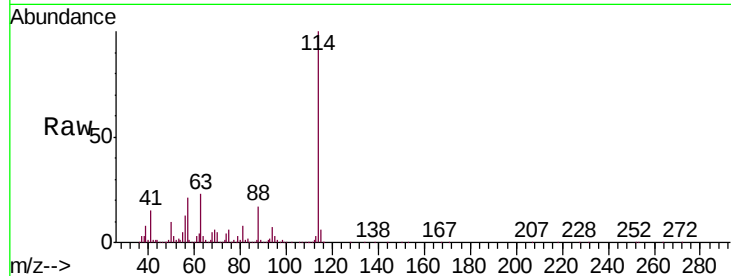




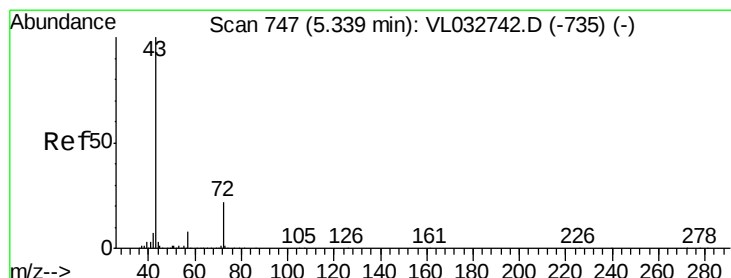
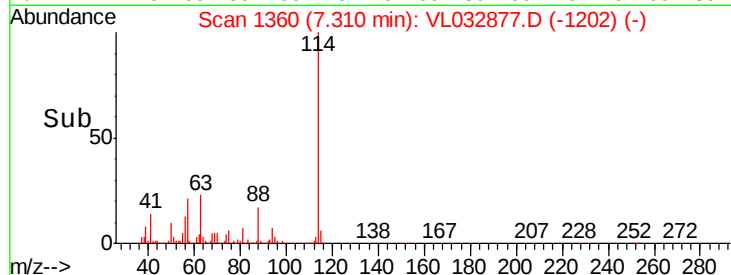
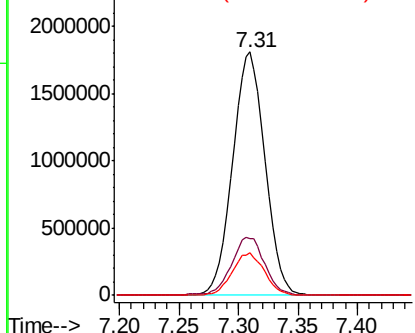
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.31 min Scan# 1360
 Delta R.T. 0.01 min
 Lab File: VL032877.D
 Acq: 4 Dec 2018 15:26

Instrument :
 MSVOA_L
 ClientSampleId :
 MMSV-06

Tgt Ion:114 Resp: 3410153
 Ion Ratio Lower Upper
 114 100
 63 25.2 20.9 31.3
 88 17.4 14.4 21.6

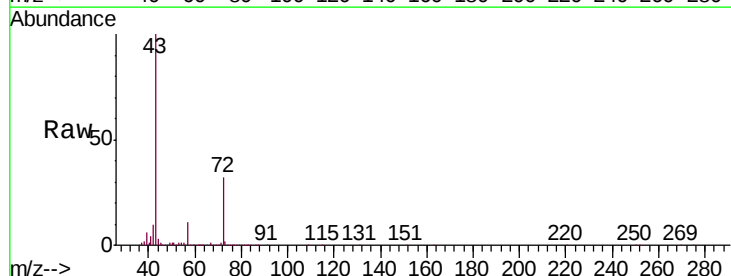


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

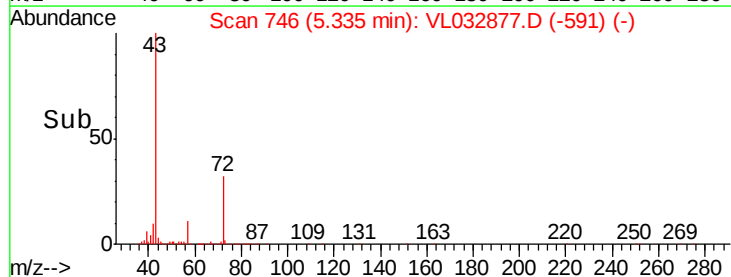
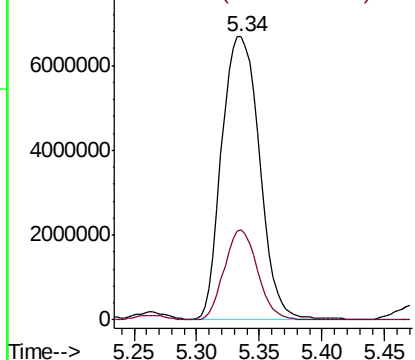


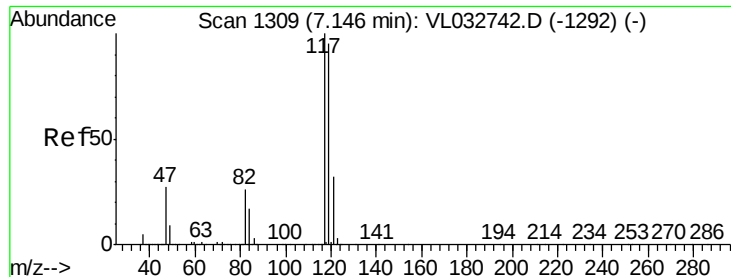
#34
 2-Butanone
 Concen: 78.657 ppbv
 RT: 5.34 min Scan# 746
 Delta R.T. -0.00 min
 Lab File: VL032877.D
 Acq: 4 Dec 2018 15:26

Tgt Ion: 43 Resp:13912261
 Ion Ratio Lower Upper
 43 100
 72 27.9 18.4 27.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.052 ppbv

RT: 7.16 min Scan# 1312

Delta R.T. 0.01 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

Instrument :

MSVOA_L

ClientSampled :

MMSV-06

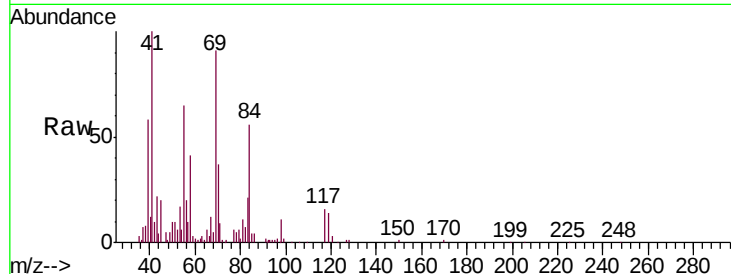
Tgt Ion: 117 Resp: 14228

Ion Ratio Lower Upper

117 100

119 87.5 76.1 114.1

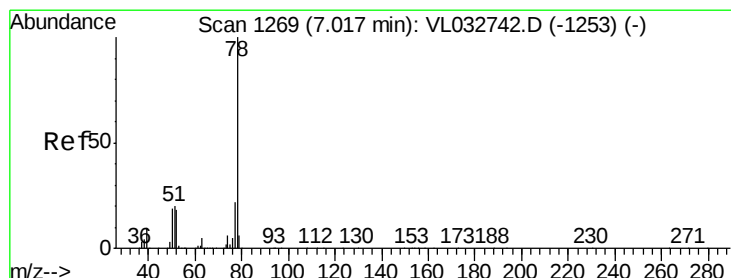
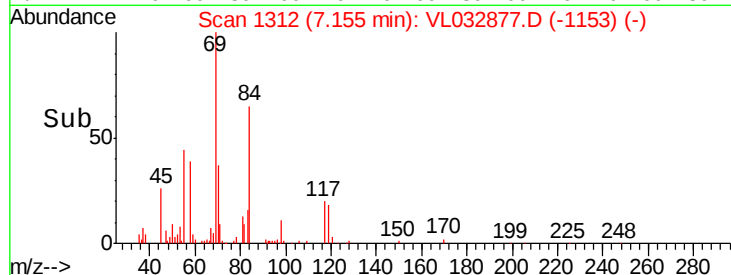
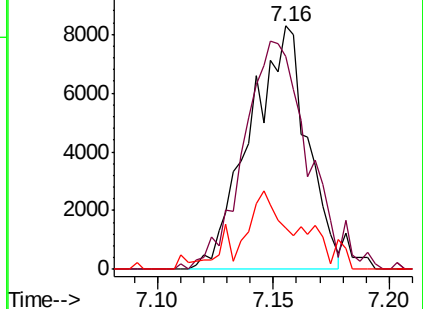
121 14.5 25.4 38.0#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 20.803 ppbv

RT: 7.02 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

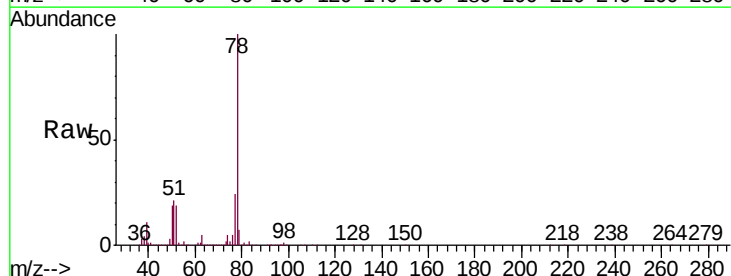
Tgt Ion: 78 Resp: 5649085

Ion Ratio Lower Upper

78 100

77 23.6 17.8 26.8

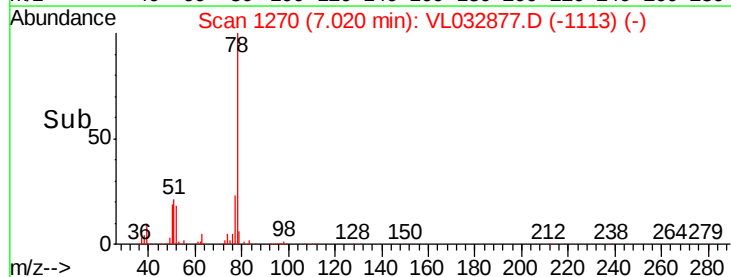
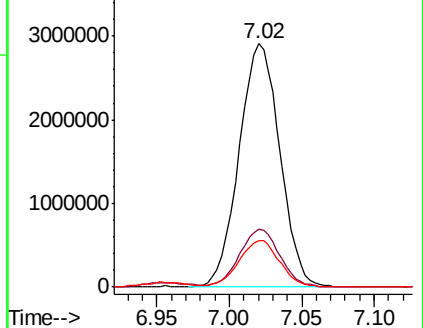
50 19.0 15.4 23.0

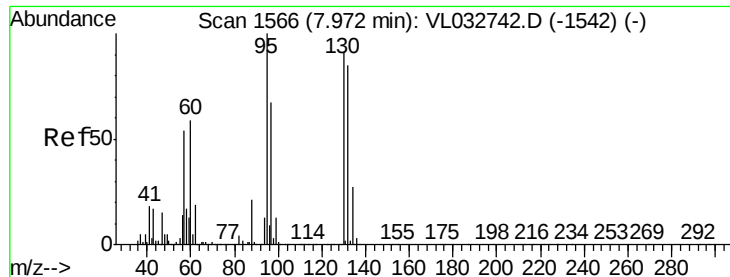


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#38

Trichloroethene

Concen: 0.043 ppbv

RT: 7.98 min Scan# 1569

Delta R.T. 0.01 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

Instrument :

MSVOA_L

ClientSampleId :

MMSV-06

Tgt Ion:130 Resp: 4719

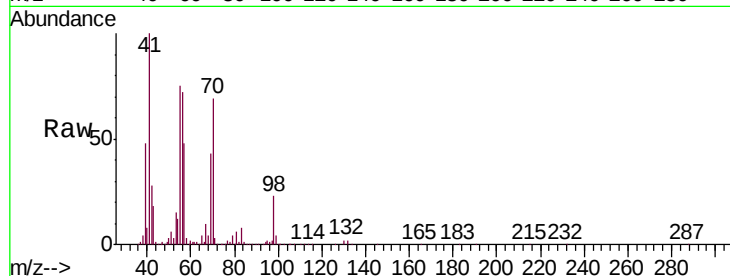
Ion Ratio Lower Upper

130 100

95 52.2 87.7 131.5#

132 81.3 74.6 111.8

97 27.3 58.3 87.5#

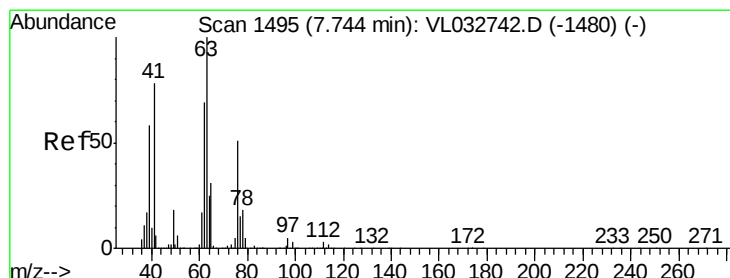
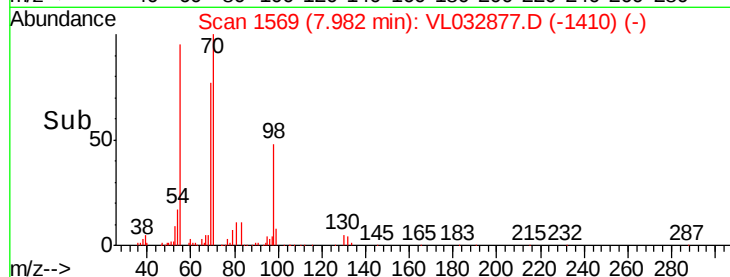
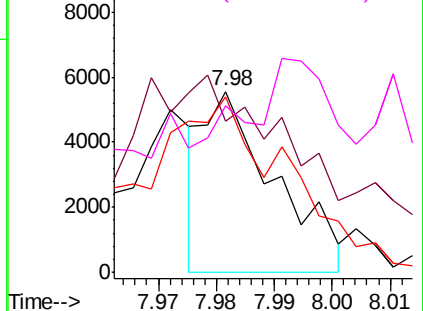


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 0.098 ppbv

RT: 7.94 min Scan# 1557

Delta R.T. 0.20 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

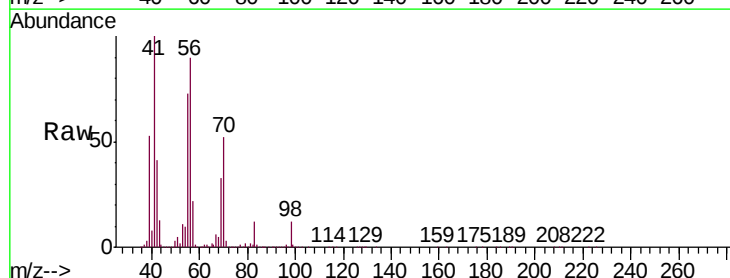
Tgt Ion: 63 Resp: 10143

Ion Ratio Lower Upper

63 100

41 8012.6 62.0 93.0#

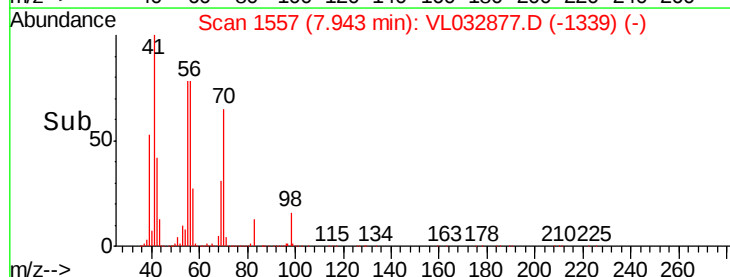
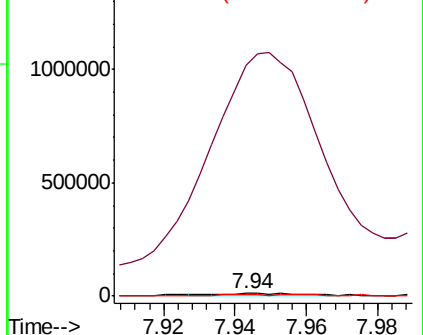
62 23.3 55.4 83.2#

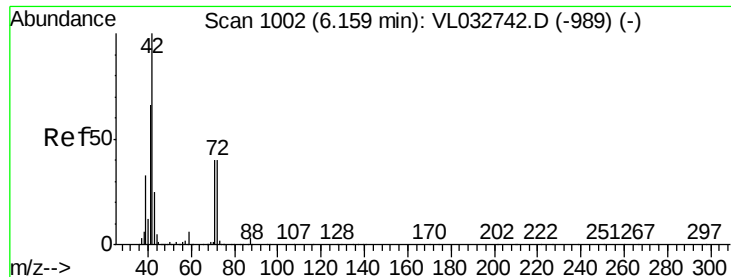


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

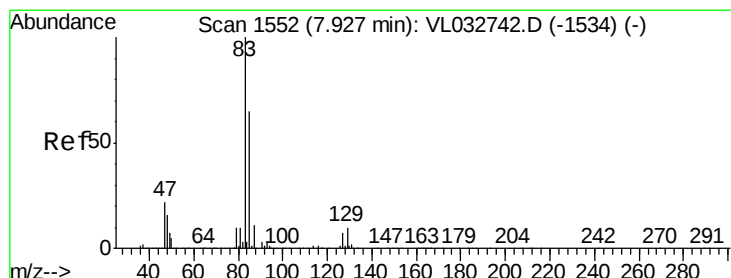
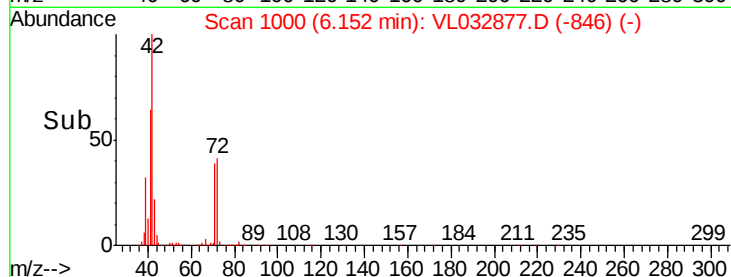
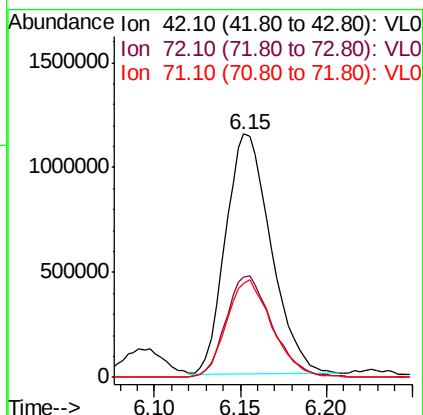
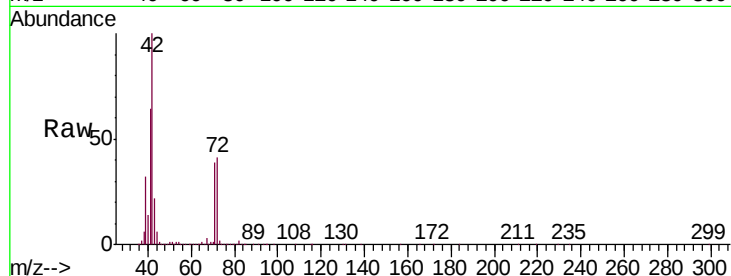




#41
Tetrahydrofuran
Concen: 20.774 ppbv
RT: 6.15 min Scan# 1000
Delta R.T. -0.01 min
Lab File: VL032877.D
Acq: 4 Dec 2018 15:26

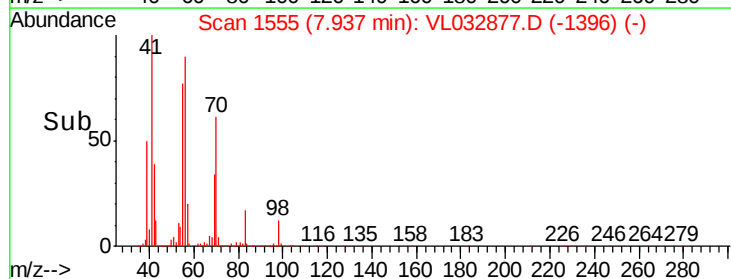
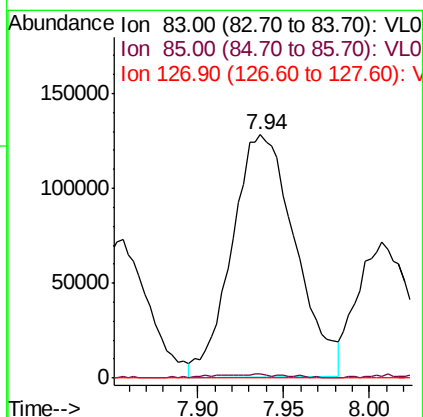
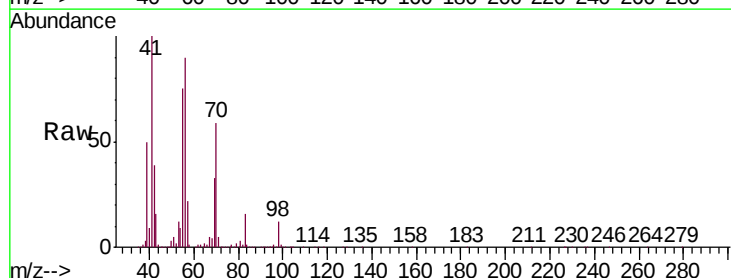
Instrument :
MSVOA_L
ClientSampleId :
MMSV-06

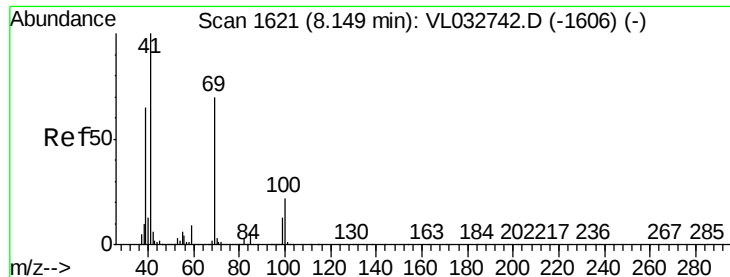
Tgt Ion: 42 Resp: 2107672
Ion Ratio Lower Upper
42 100
72 43.0 32.4 48.6
71 41.1 31.6 47.4



#42
Bromodichloromethane
Concen: 1.325 ppbv
RT: 7.94 min Scan# 1555
Delta R.T. 0.01 min
Lab File: VL032877.D
Acq: 4 Dec 2018 15:26

Tgt Ion: 83 Resp: 328317
Ion Ratio Lower Upper
83 100
85 1.7 51.8 77.8#
127 0.3 5.9 8.9#





#43

Methyl Methacrylate

Concen: 0.241 ppbv

RT: 8.13 min Scan# 1615

Delta R.T. -0.02 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

Instrument :

MSVOA_L

ClientSampleId :

MMSV-06

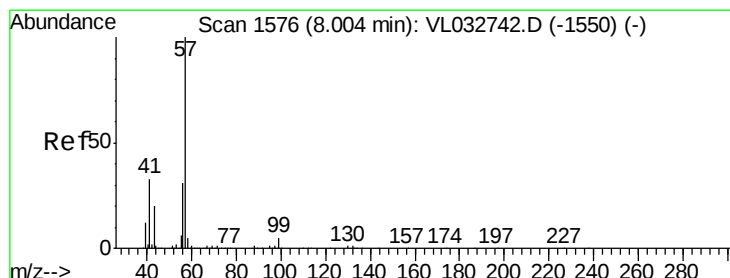
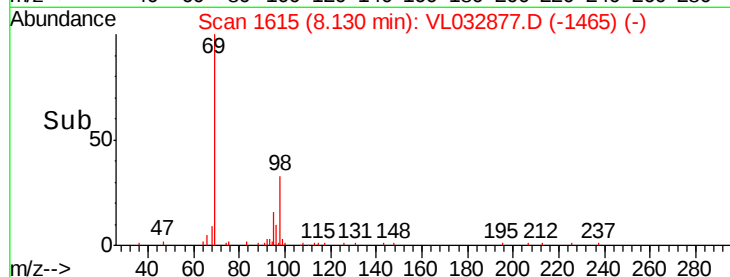
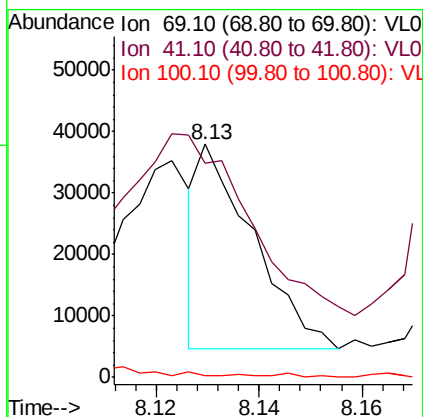
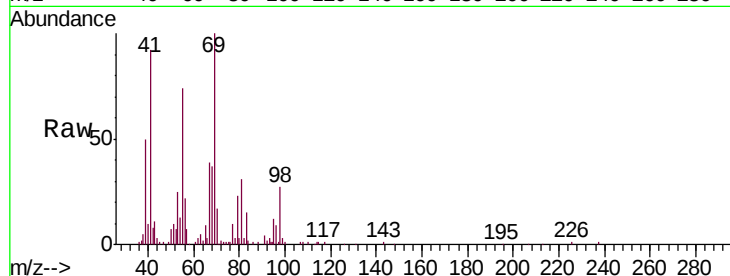
Tgt Ion: 69 Resp: 24404

Ion Ratio Lower Upper

69 100

41 0.0 115.0 172.4#

100 0.0 25.4 38.0#



#44

2,2,4-Trimethylpentane

Concen: 2.695 ppbv

RT: 8.01 min Scan# 1578

Delta R.T. 0.01 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

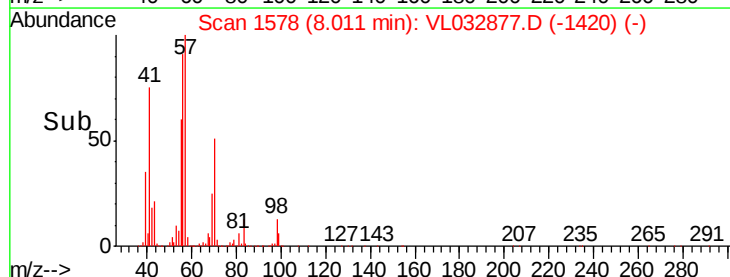
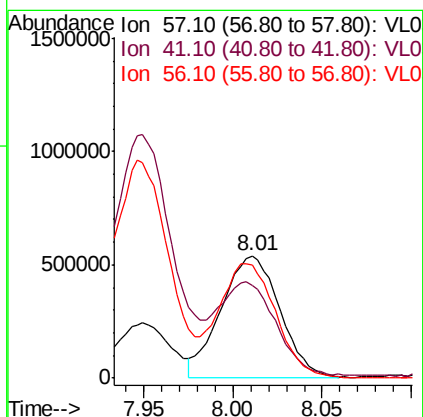
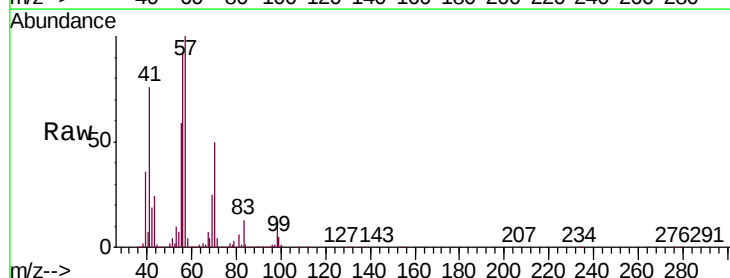
Tgt Ion: 57 Resp: 1223126

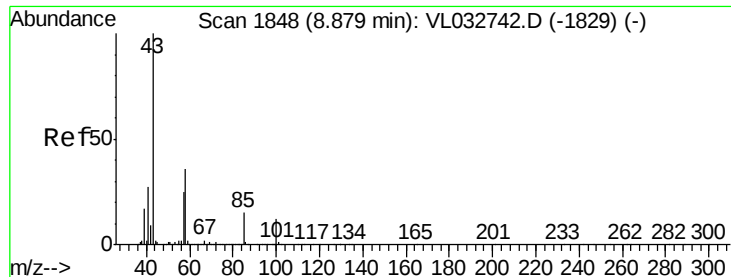
Ion Ratio Lower Upper

57 100

41 76.0 26.6 39.8#

56 87.1 24.8 37.2#

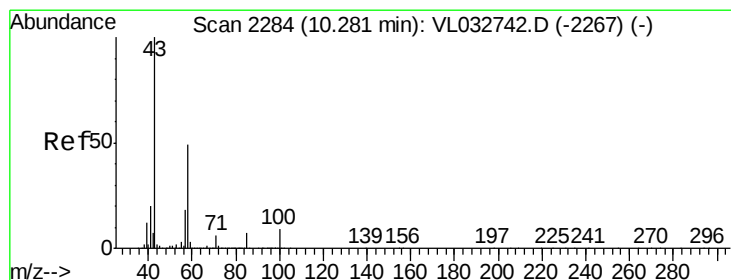
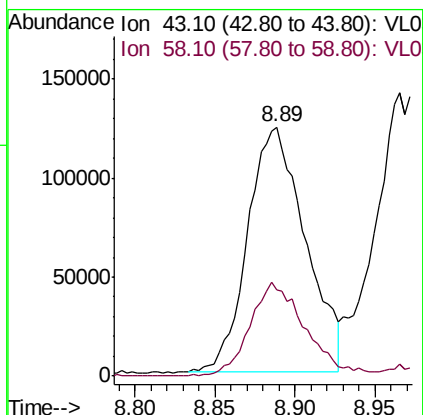
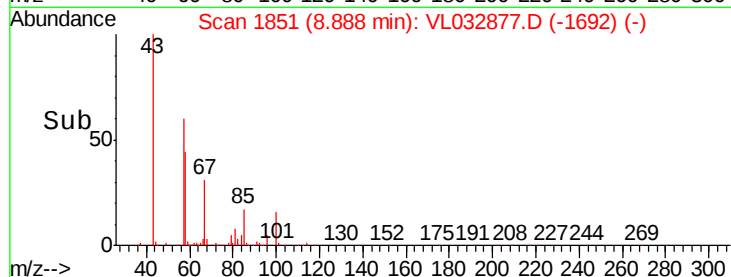
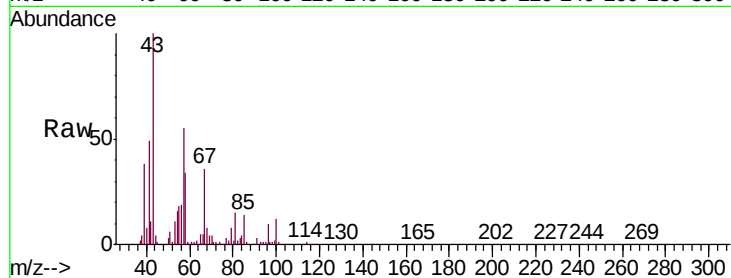




#50
4-Methyl-2-Pentanone
Concen: 1.111 ppbv
RT: 8.89 min Scan# 1851
Delta R.T. 0.01 min
Lab File: VL032877.D
Acq: 4 Dec 2018 15:26

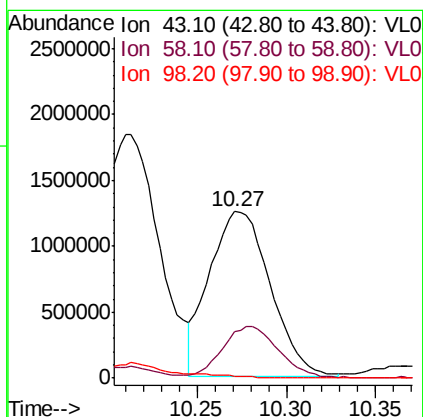
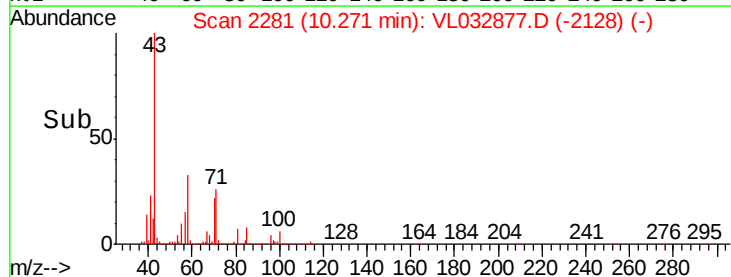
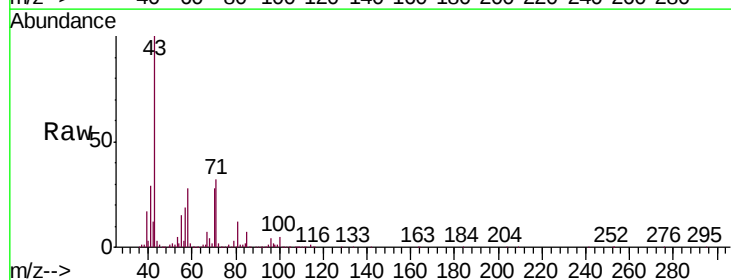
Instrument :
MSVOA_L
ClientSampleId :
MMSV-06

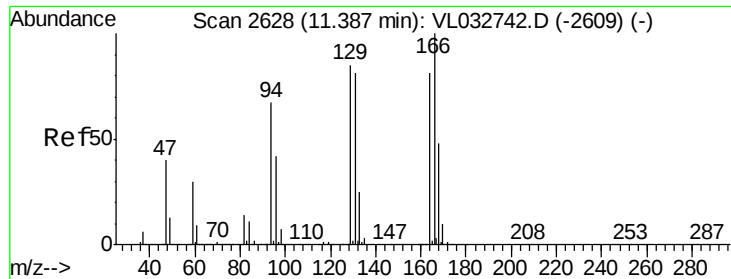
Tgt Ion: 43 Resp: 306845
Ion Ratio Lower Upper
43 100
58 36.3 28.8 43.2



#51
2-Hexanone
Concen: 16.830 ppbv
RT: 10.27 min Scan# 2281
Delta R.T. -0.01 min
Lab File: VL032877.D
Acq: 4 Dec 2018 15:26

Tgt Ion: 43 Resp: 2995369
Ion Ratio Lower Upper
43 100
58 28.8 38.9 58.3#
98 0.0 0.2 0.4#





#52

Tetrachloroethene

Concen: 0.057 ppbv

RT: 11.39 min Scan# 2630

Delta R.T. 0.01 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

Instrument :

MSVOA_L

ClientSampleId :

MMSV-06

Tgt Ion:164 Resp: 5425

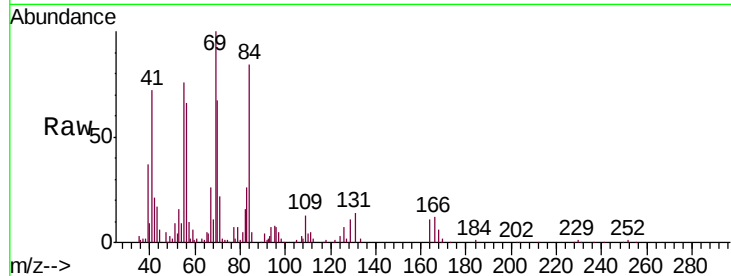
Ion Ratio Lower Upper

164 100

166 93.7 99.3 148.9#

129 104.9 83.9 125.9

131 136.1 80.8 121.2#



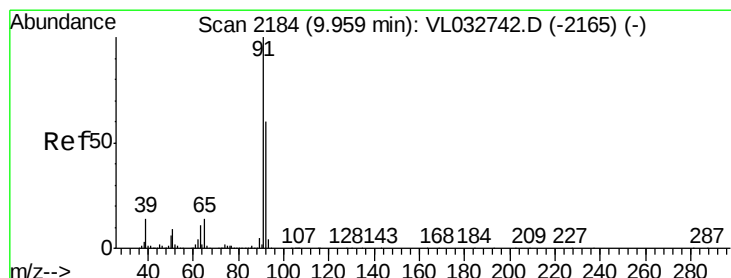
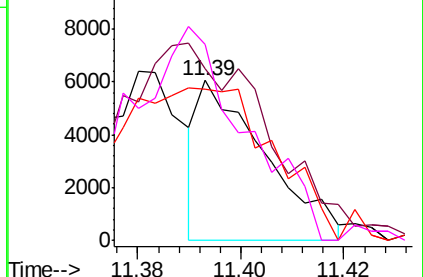
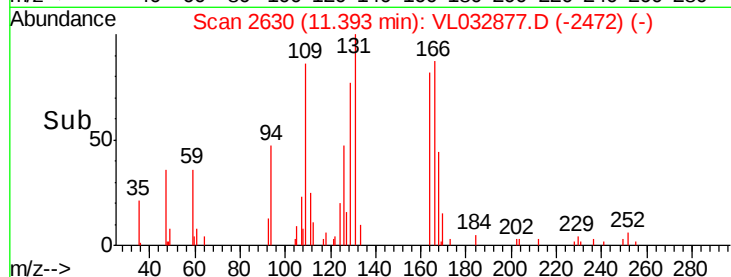
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Time-->



#53

Toluene

Concen: 20.717 ppbv

RT: 9.96 min Scan# 2185

Delta R.T. 0.00 min

Lab File: VL032877.D

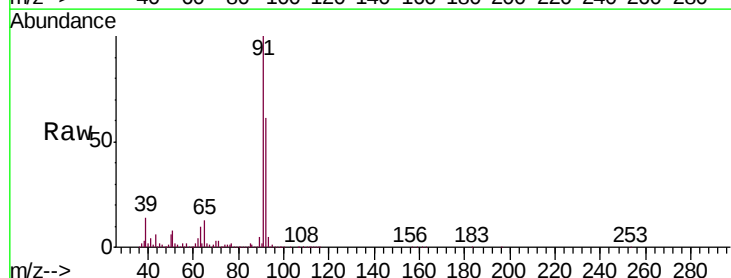
Acq: 4 Dec 2018 15:26

Tgt Ion: 91 Resp: 5869194

Ion Ratio Lower Upper

91 100

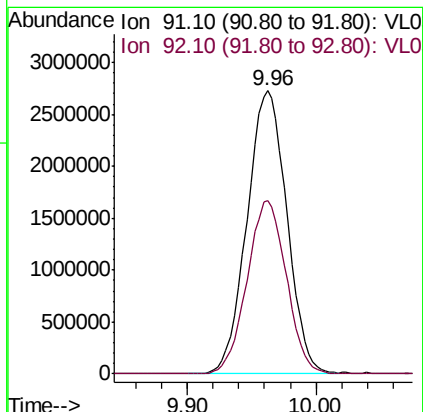
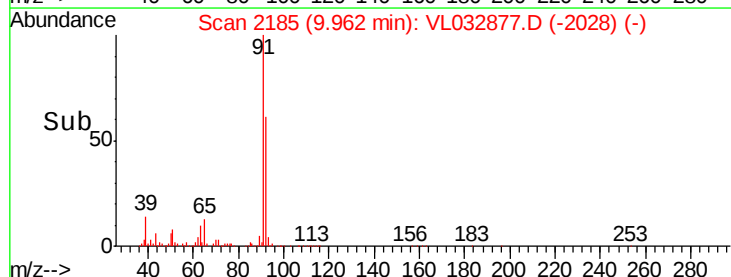
92 60.6 47.9 71.9

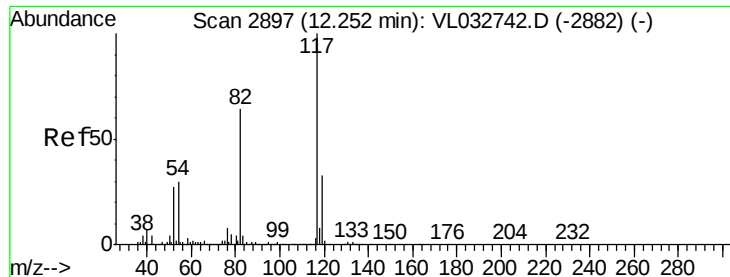


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Time-->

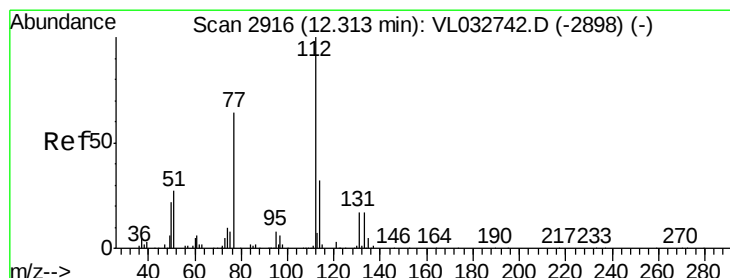
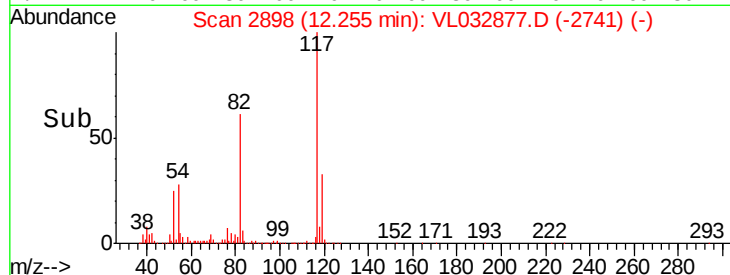
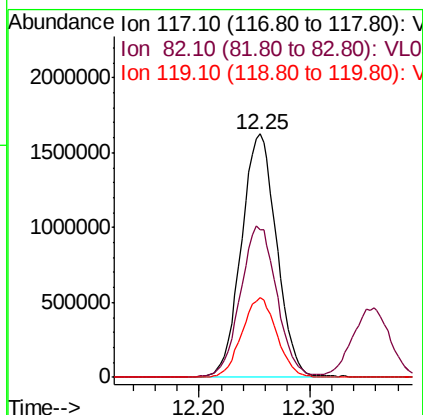
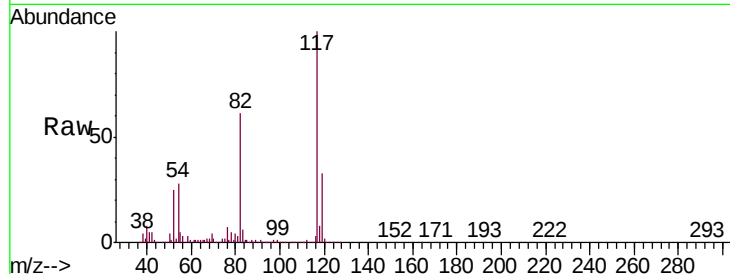




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2898
Delta R.T. 0.00 min
Lab File: VL032877.D
Acq: 4 Dec 2018 15:26

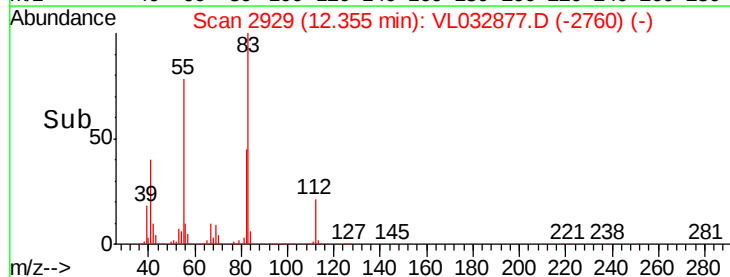
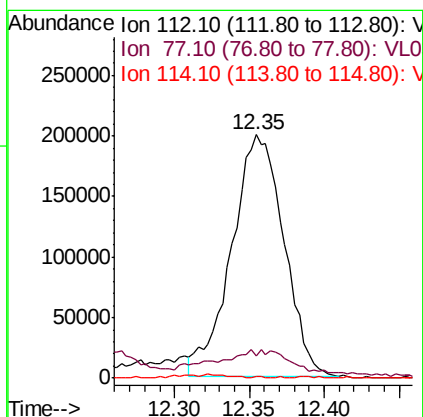
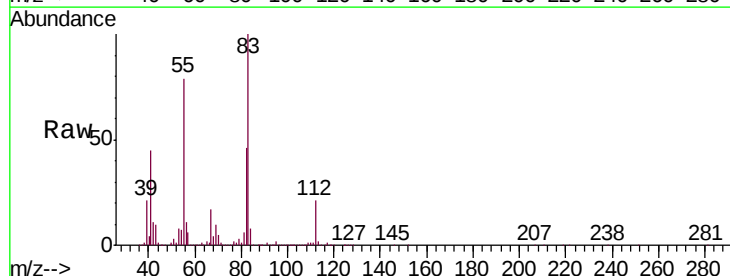
Instrument :
MSVOA_L
ClientSampleId :
MMSV-06

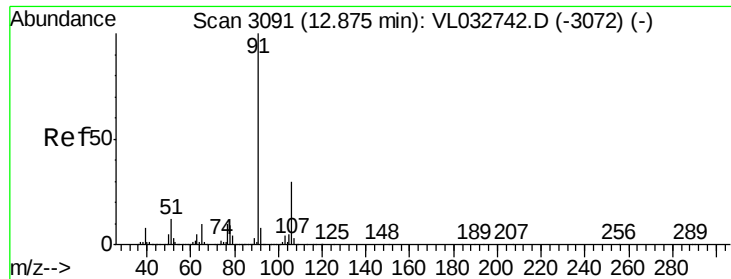
Tgt Ion:117 Resp: 3599508
Ion Ratio Lower Upper
117 100
82 64.2 51.0 76.6
119 32.5 28.0 42.0



#57
Chlorobenzene
Concen: 1.756 ppbv
RT: 12.35 min Scan# 2929
Delta R.T. 0.04 min
Lab File: VL032877.D
Acq: 4 Dec 2018 15:26

Tgt Ion:112 Resp: 483818
Ion Ratio Lower Upper
112 100
77 6.9 52.3 78.5#
114 0.7 28.4 34.8#





#58

Ethyl Benzene

Concen: 4.543 ppbv

RT: 12.88 min Scan# 3092

Delta R.T. 0.00 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

Instrument :

MSVOA_L

ClientSampleId :

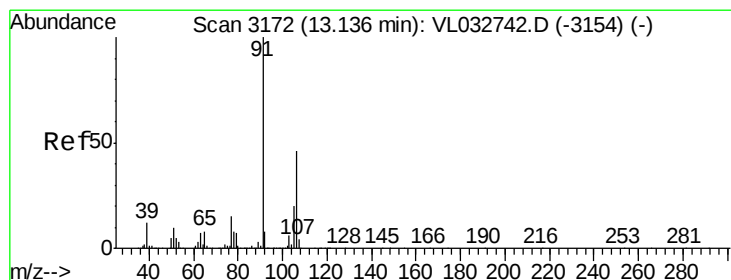
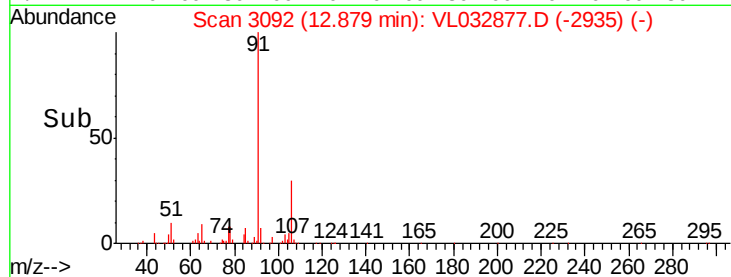
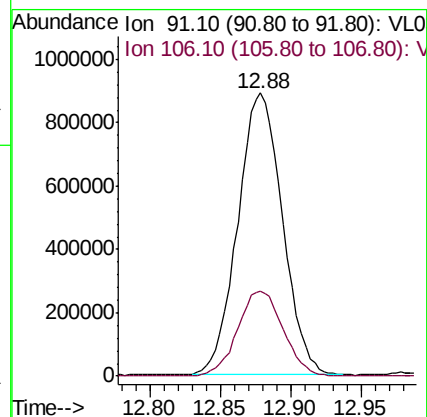
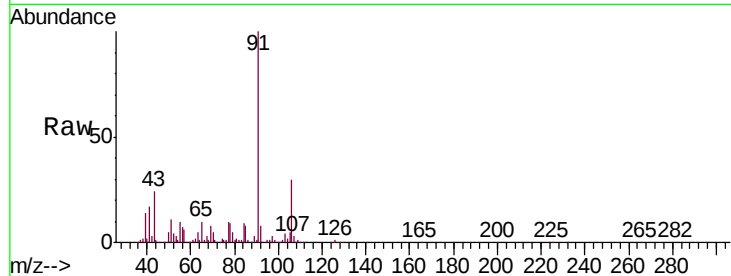
MMSV-06

Tgt Ion: 91 Resp: 1968079

Ion Ratio Lower Upper

91 100

106 30.1 23.6 35.4



#59

m/p-Xylene

Concen: 9.730 ppbv

RT: 13.14 min Scan# 3172

Delta R.T. 0.00 min

Lab File: VL032877.D

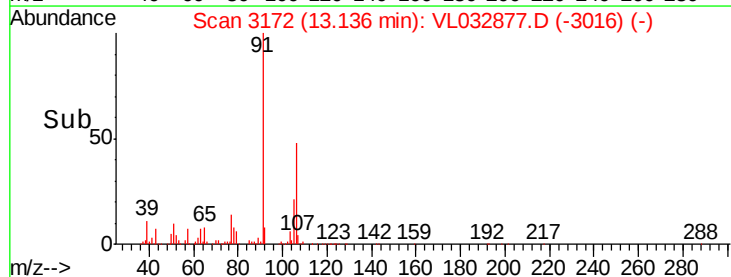
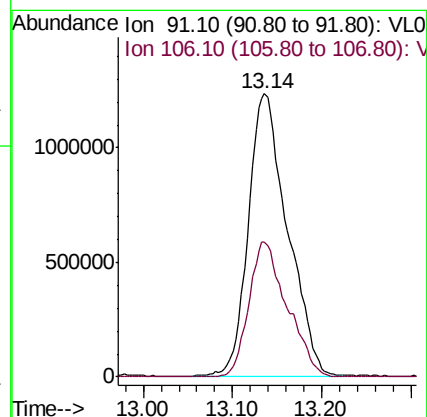
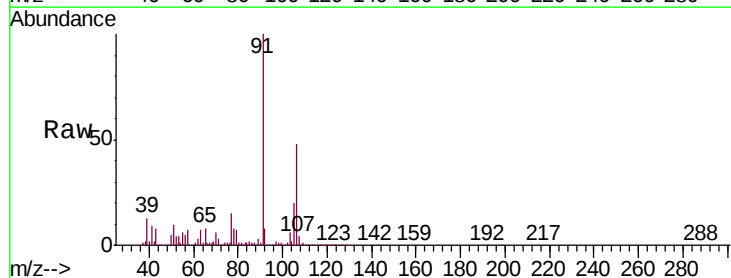
Acq: 4 Dec 2018 15:26

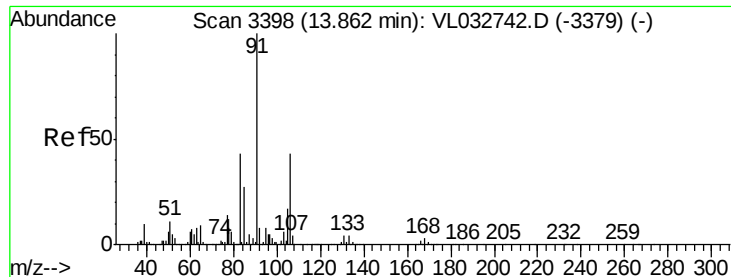
Tgt Ion: 91 Resp: 3752069

Ion Ratio Lower Upper

91 100

106 46.8 36.1 54.1

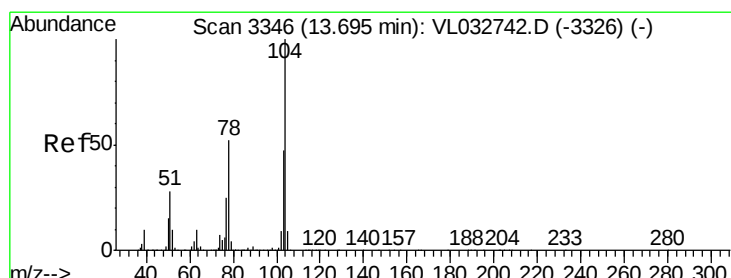
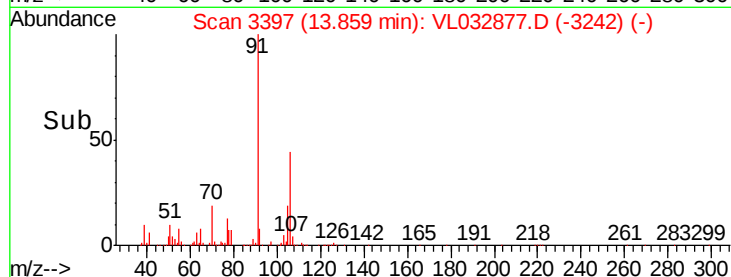
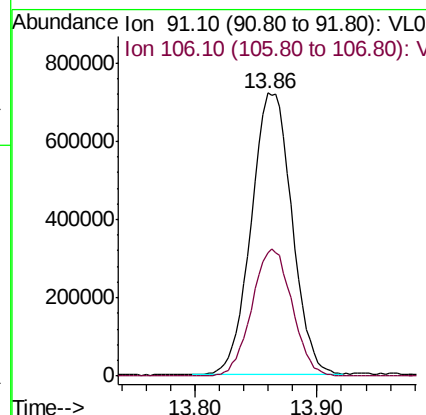
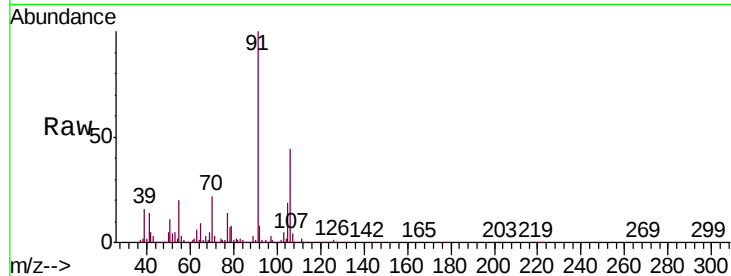




#60
o-Xylene
Concen: 4.256 ppbv
RT: 13.86 min Scan# 3397
Delta R.T. -0.00 min
Lab File: VL032877.D
Acq: 4 Dec 2018 15:26

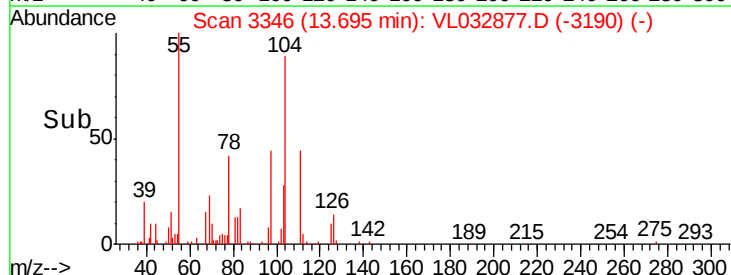
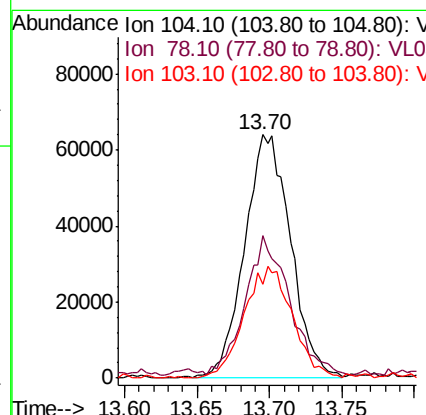
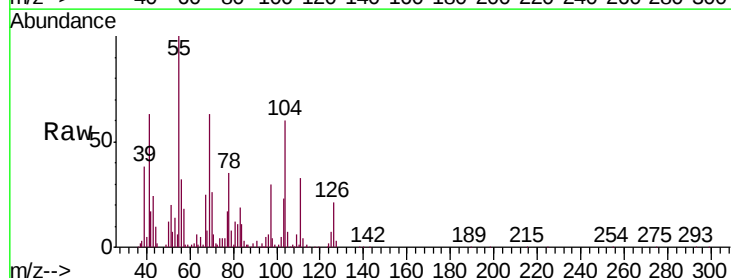
Instrument :
MSVOA_L
ClientSampleId :
MMSV-06

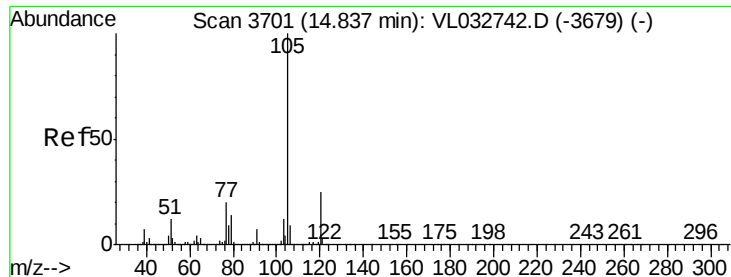
Tgt Ion: 91 Resp: 1650139
Ion Ratio Lower Upper
91 100
106 45.2 21.9 65.7



#61
Styrene
Concen: 0.557 ppbv
RT: 13.70 min Scan# 3346
Delta R.T. 0.00 min
Lab File: VL032877.D
Acq: 4 Dec 2018 15:26

Tgt Ion: 104 Resp: 140638
Ion Ratio Lower Upper
104 100
78 57.3 42.2 63.4
103 48.5 38.2 57.2





#62

Isopropylbenzene

Concen: 0.607 ppbv

RT: 14.84 min Scan# 3702

Delta R.T. 0.00 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

Instrument :

MSVOA_L

ClientSampleId :

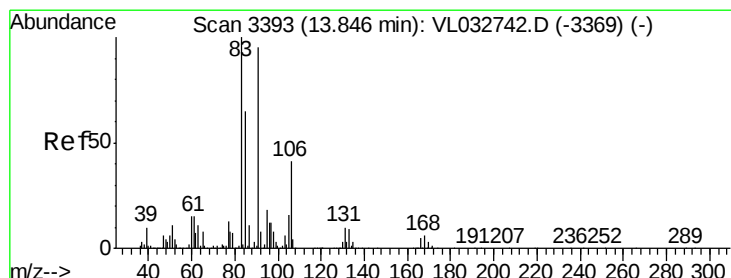
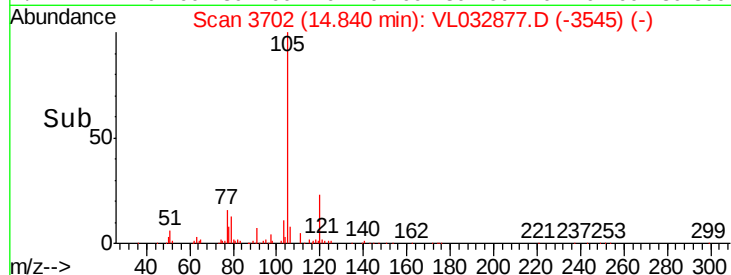
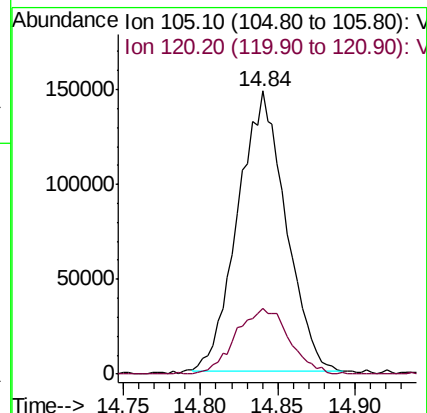
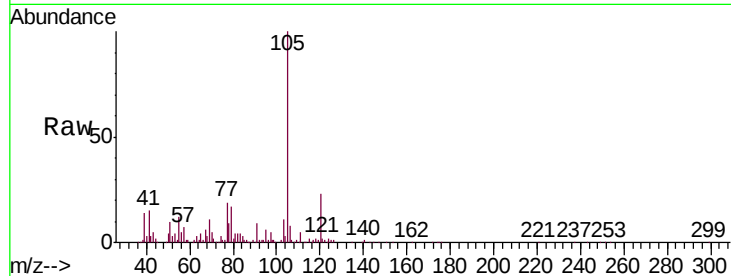
MMSV-06

Tgt Ion: 105 Resp: 317972

Ion Ratio Lower Upper

105 100

120 26.5 20.1 30.1



#63

1,1,2,2-Tetrachloroethane

Concen: 0.037 ppbv

RT: 13.85 min Scan# 3395

Delta R.T. 0.01 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

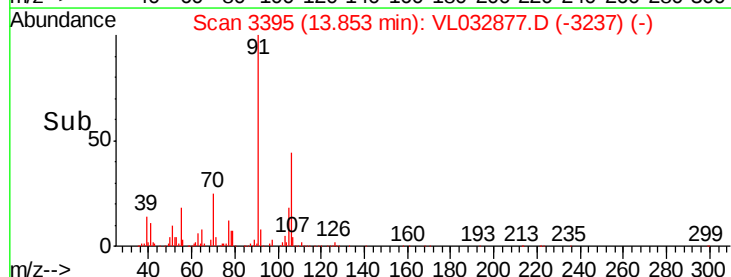
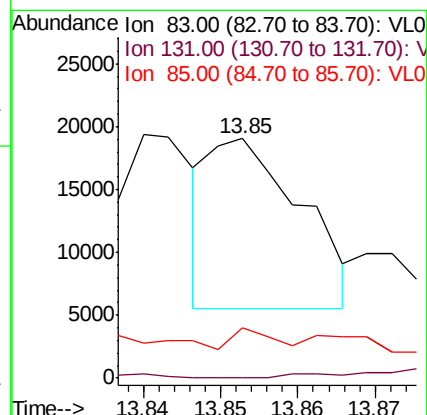
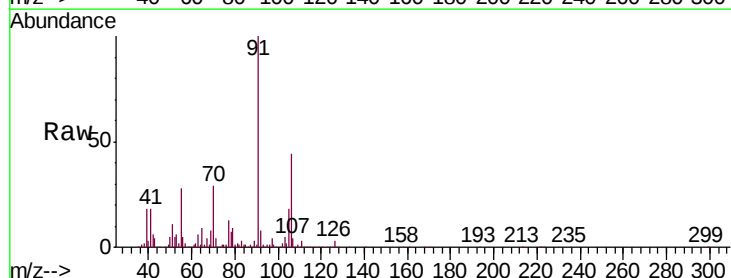
Tgt Ion: 83 Resp: 11063

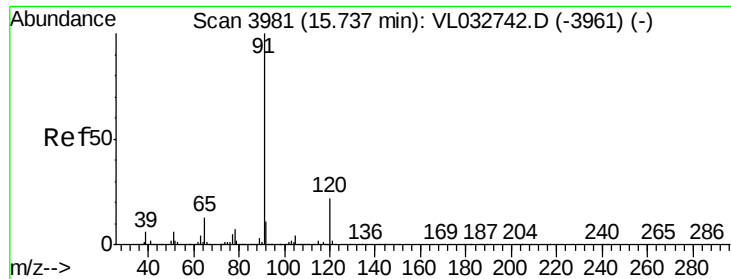
Ion Ratio Lower Upper

83 100

131 0.0 4.7 14.1#

85 0.0 32.5 97.4#





#64

n-propylbenzene

Concen: 0.566 ppbv

RT: 15.74 min Scan# 3982

Delta R.T. 0.00 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

Instrument :

MSVOA_L

ClientSampleId :

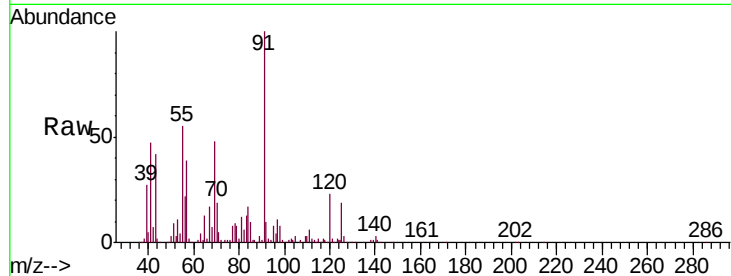
MMSV-06

Tgt Ion:120 Resp: 78079

Ion Ratio Lower Upper

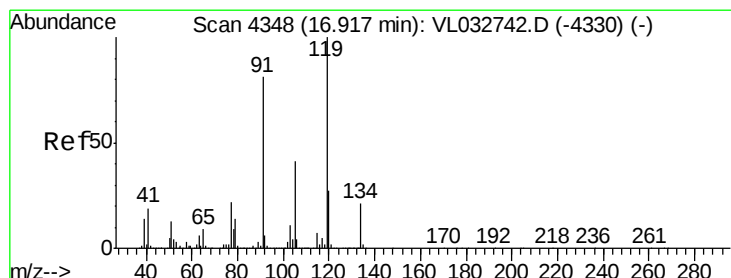
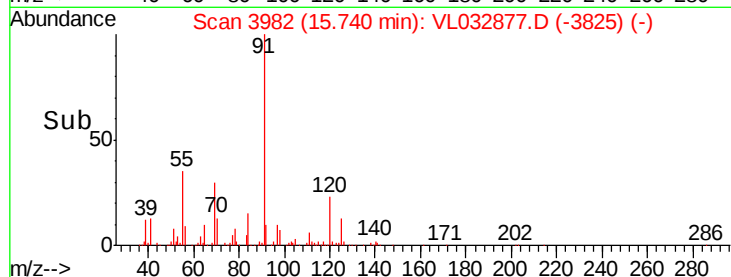
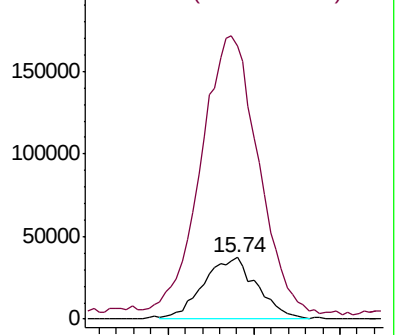
120 100

91 521.8 381.7 572.5



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.077 ppbv

RT: 16.94 min Scan# 4355

Delta R.T. 0.02 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

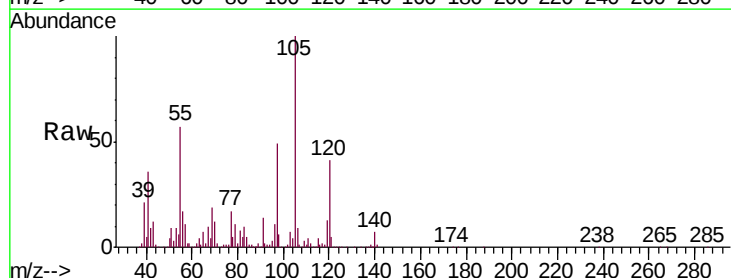
Tgt Ion:119 Resp: 36252

Ion Ratio Lower Upper

119 100

91 268.7 65.6 98.4#

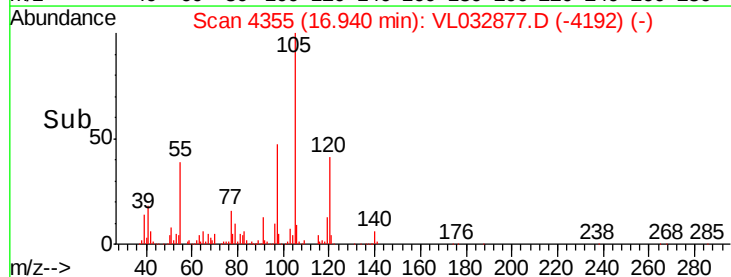
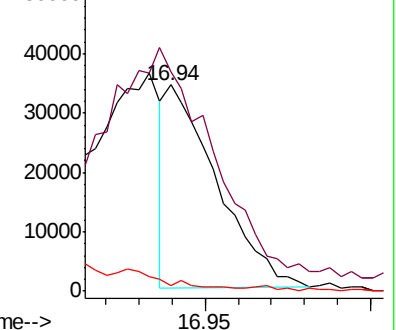
134 0.0 15.9 23.9#

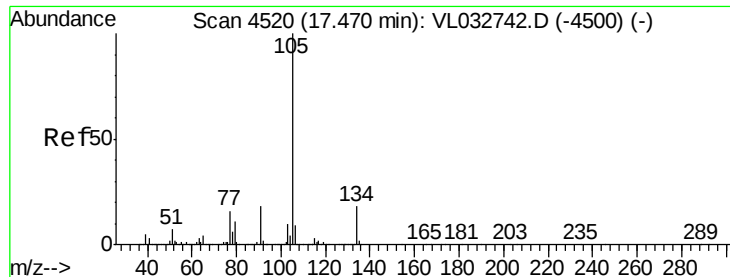


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

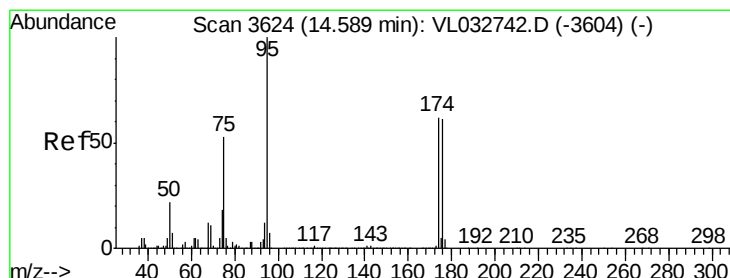
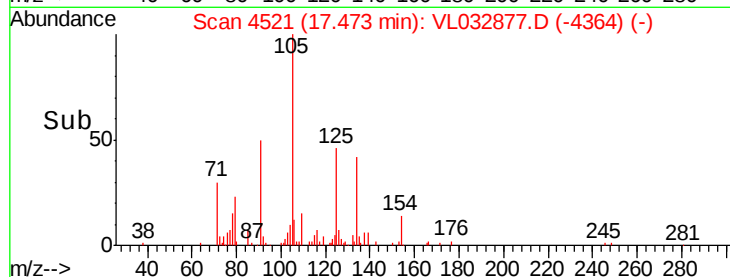
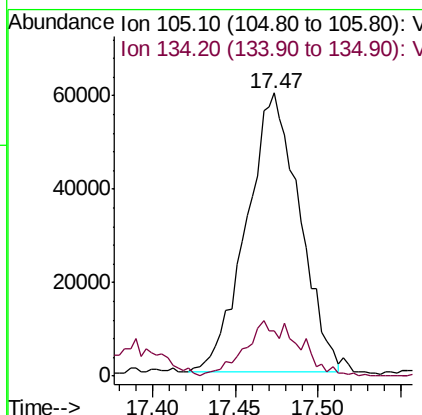
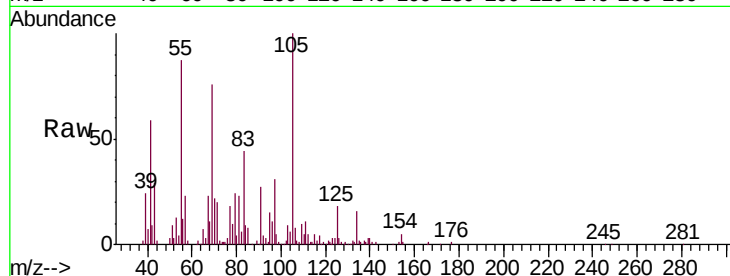




#67
 sec-Butylbenzene
 Concen: 0.197 ppbv
 RT: 17.47 min Scan# 4521
 Delta R.T. 0.00 min
 Lab File: VL032877.D
 Acq: 4 Dec 2018 15:26

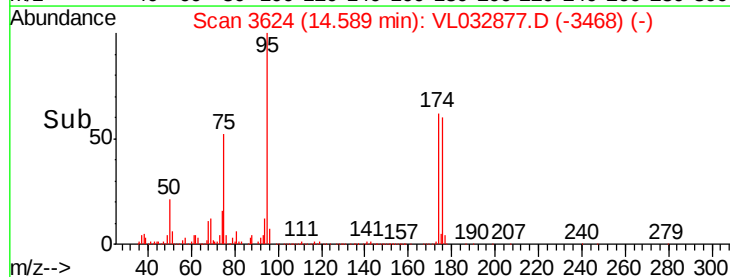
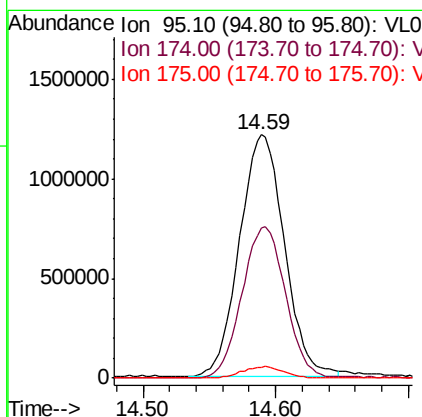
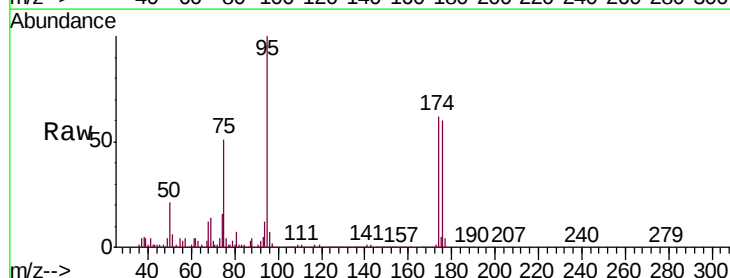
Instrument :
 MSVOA_L
 ClientSampleId :
 MMSV-06

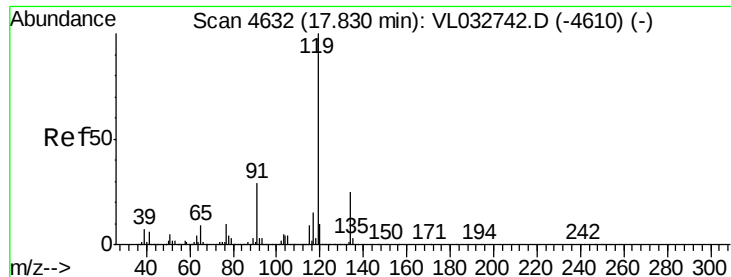
Tgt Ion: 105 Resp: 133106
 Ion Ratio Lower Upper
 105 100
 134 20.1 14.6 21.8



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.652 ppbv
 RT: 14.59 min Scan# 3624
 Delta R.T. 0.00 min
 Lab File: VL032877.D
 Acq: 4 Dec 2018 15:26

Tgt Ion: 95 Resp: 2867712
 Ion Ratio Lower Upper
 95 100
 174 61.0 50.7 76.1
 175 4.5 3.8 5.6





#69

p-Isopropyltoluene

Concen: 0.079 ppbv

RT: 17.83 min Scan# 4633

Delta R.T. 0.00 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

Instrument :

MSVOA_L

ClientSampleId :

MMSV-06

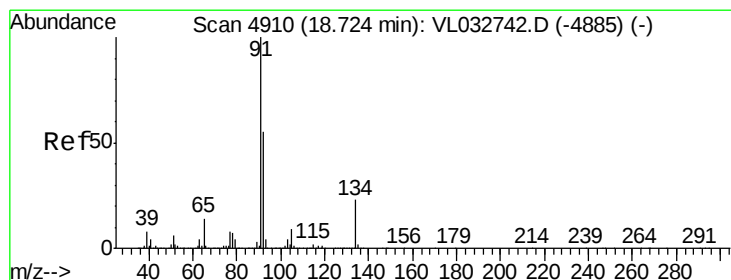
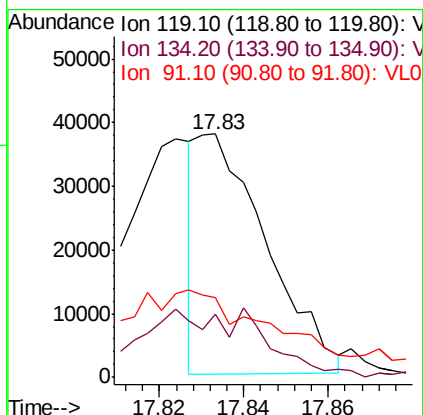
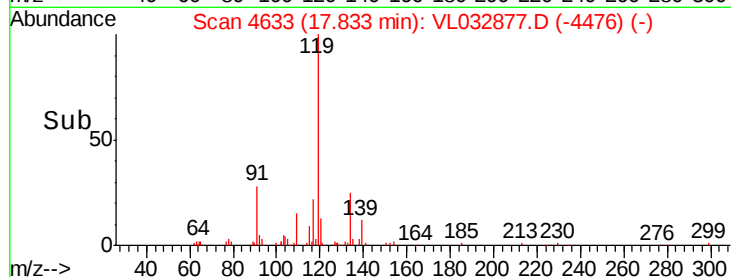
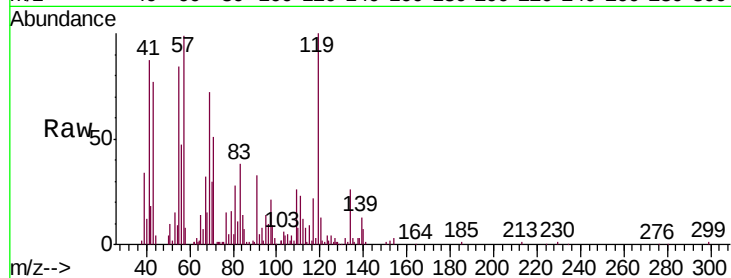
Tgt Ion: 119 Resp: 42729

Ion Ratio Lower Upper

119 100

134 54.8 20.2 30.4#

91 0.0 23.5 35.3#



#70

n-Butylbenzene

Concen: 0.077 ppbv

RT: 18.73 min Scan# 4913

Delta R.T. 0.01 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

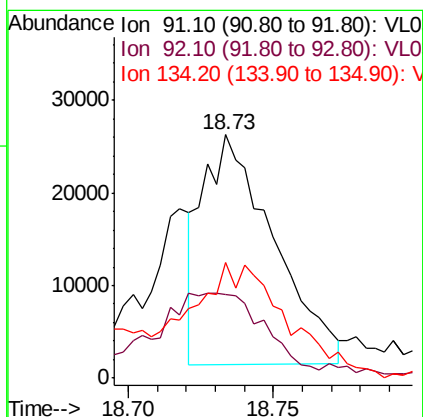
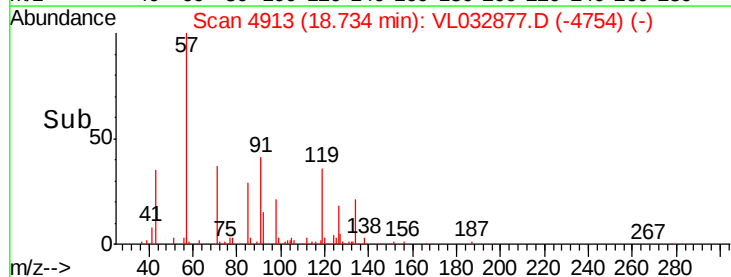
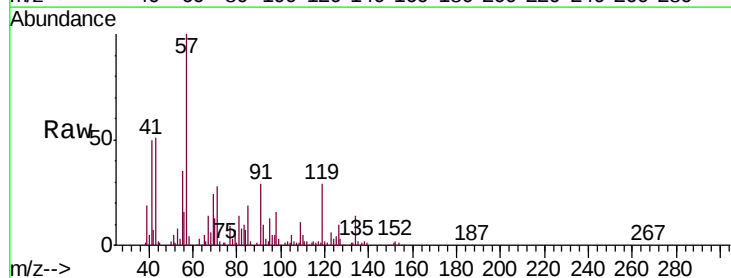
Tgt Ion: 91 Resp: 42074

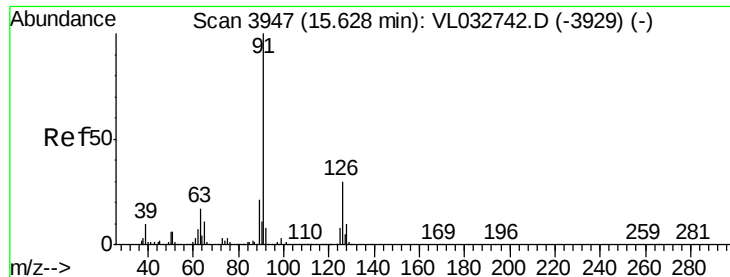
Ion Ratio Lower Upper

91 100

92 61.2 42.9 64.3

134 96.0 17.8 26.8#

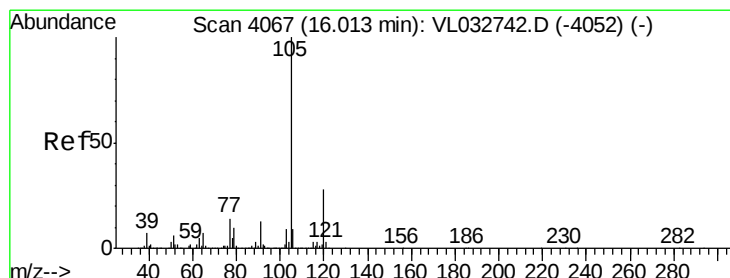
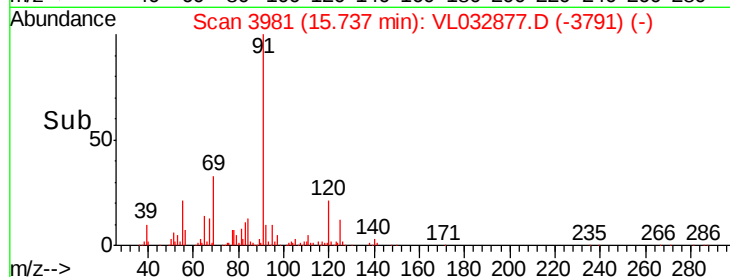
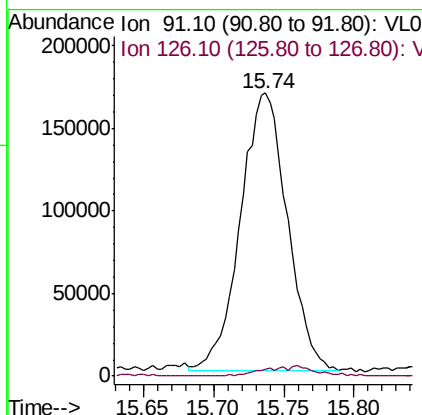
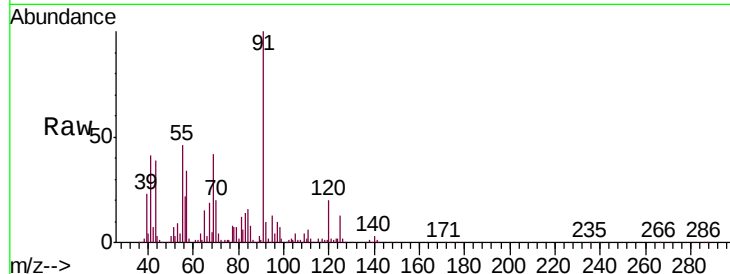




#71
2-Chlorotoluene
Concen: 0.995 ppbv
RT: 15.74 min Scan# 3981
Delta R.T. 0.11 min
Lab File: VL032877.D
Acq: 4 Dec 2018 15:26

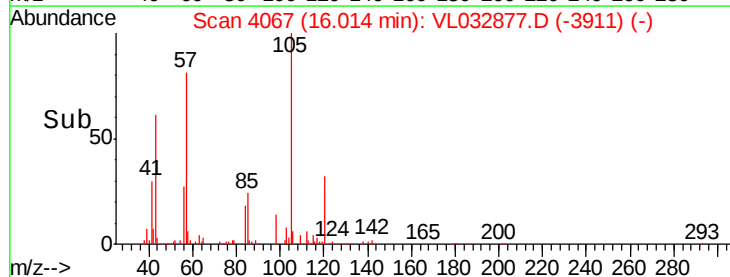
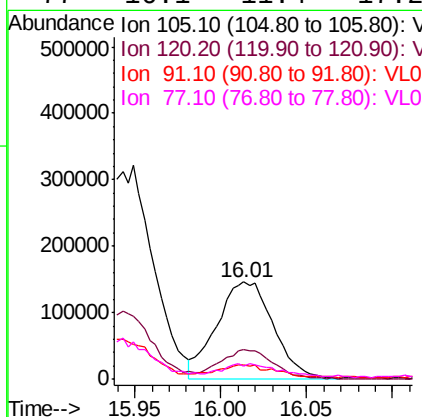
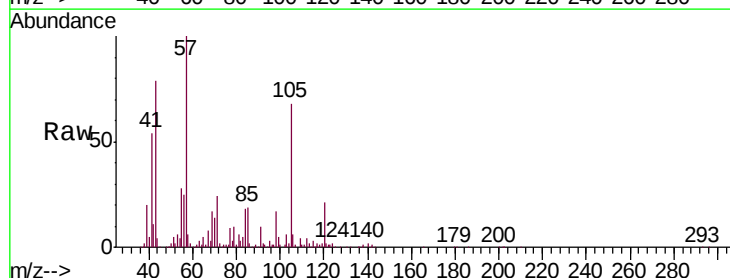
Instrument :
MSVOA_L
ClientSampleId :
MMSV-06

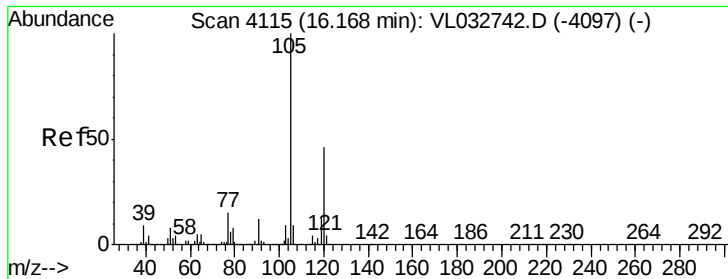
Tgt Ion: 91 Resp: 389061
Ion Ratio Lower Upper
91 100
126 4.2 12.1 48.5#



#72
4-Ethyltoluene
Concen: 0.777 ppbv
RT: 16.01 min Scan# 4067
Delta R.T. 0.00 min
Lab File: VL032877.D
Acq: 4 Dec 2018 15:26

Tgt Ion: 105 Resp: 330169
Ion Ratio Lower Upper
105 100
120 29.7 22.9 34.3
91 13.9 10.6 15.8
77 16.1 11.4 17.2

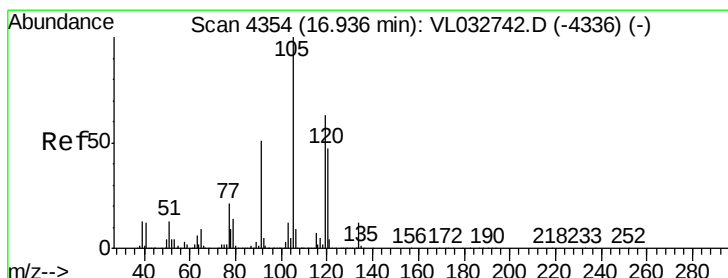
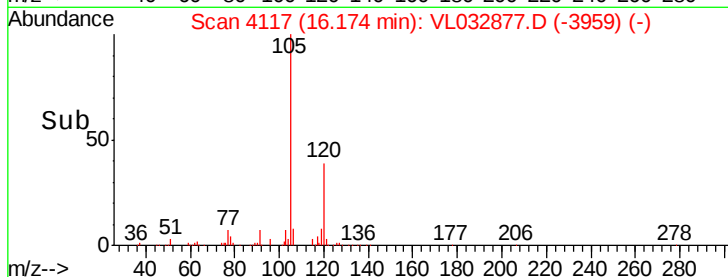
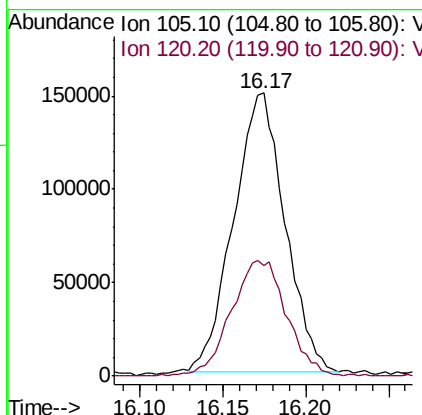
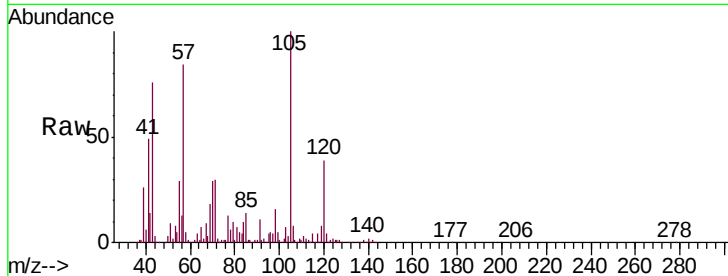




#73
 1,3,5-Trimethylbenzene
 Concen: 0.769 ppbv
 RT: 16.17 min Scan# 4117
 Delta R.T. 0.01 min
 Lab File: VL032877.D
 Acq: 4 Dec 2018 15:26

Instrument :
 MSVOA_L
 ClientSampleId :
 MMSV-06

Tgt Ion:105 Resp: 319760
 Ion Ratio Lower Upper
 105 100
 120 39.2 36.6 55.0



#74
 1,2,4-Trimethylbenzene
 Concen: 1.333 ppbv
 RT: 16.94 min Scan# 4355
 Delta R.T. 0.00 min
 Lab File: VL032877.D
 Acq: 4 Dec 2018 15:26

Tgt Ion:105 Resp: 592956
 Ion Ratio Lower Upper
 105 100
 120 41.3 37.6 56.4
 91 12.8 42.5 63.7#
 77 16.0 17.4 26.2#

