

Data File : VL032892.D

Acq On : 5 Dec 2018 1:19

Operator : SY/AP

Sample : J6176-02

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
MMSV-05

Quant Time: Dec 05 05:52:14 2018

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

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)
1) Bromochloromethane	5.78	49	1341620	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.32	114	3636963	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.25	117	3690410	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2814669	10.20	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.00%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.08	85	35698	0.185	ppbv	97
3) Chlorodifluoromethane	3.02	51	64337	0.605	ppbv	95
4) Chloromethane	3.17	50	37167	0.630	ppbv	96
5) Vinyl Chloride	3.05	62	2841614	45.470	ppbv #	51
7) Chloroethane	3.61	64	678	0.030	ppbv #	80
9) Propene	3.03	41	5620771	132.051	ppbv	99
10) Heptane	8.27	43	1669274	10.272	ppbv	99
11) Trichlorofluoromethane	4.01	101	38536	0.212	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.56	101	8336	0.056	ppbv	97
13) Ethanol	3.66	45	591864	42.452	ppbv	99
15) Acetone	3.90	43	8155897	66.568	ppbv	99
16) 1,3-Butadiene	3.35	39	3551201	74.845	ppbv #	20
17) tert-Butyl alcohol	4.37	59	102147	2.658	ppbv #	73
19) Isopropyl Alcohol	4.04	45	62121	0.761	ppbv #	95
20) Methylene Chloride	4.43	84	89707	1.414	ppbv #	87
21) Allyl Chloride	4.44	41	1506109	14.628	ppbv #	59
23) Vinyl Acetate	5.16	43	811301	3.633	ppbv #	1
24) 1,1-Dichloroethane	5.10	63	9348	0.053	ppbv	99
25) Ethyl Acetate	5.80	43	1444289	5.058	ppbv #	80
26) Hexane	5.80	57	2020981	15.899	ppbv #	40
28) Methyl tert-Butyl Ether	5.14	73	38967	0.192	ppbv #	1
29) Chloroform	5.87	83	25557	0.113	ppbv	99
30) Cyclohexane	7.27	84	1041148	9.365	ppbv	87
34) 2-Butanone	5.34	43	5497092	29.141	ppbv	98
36) Benzene	6.97	78	163773	0.565	ppbv #	1
38) Trichloroethene	7.98	130	10746	0.092	ppbv #	68
39) 1,2-Dichloropropane	7.32	63	839901	7.612	ppbv #	22
41) Tetrahydrofuran	6.17	42	1540164	14.234	ppbv	100
42) Bromodichloromethane	7.94	83	489721	1.853	ppbv #	25
43) Methyl Methacrylate	8.20	69	53396	0.494	ppbv #	77
44) 2,2,4-Trimethylpentane	8.01	57	3121364	6.449	ppbv #	81
47) 1,1,2-Trichloroethane	9.80	97	61910	0.474	ppbv #	16
50) 4-Methyl-2-Pentanone	8.89	43	225573	0.766	ppbv	99
51) 2-Hexanone	10.28	43	814680	4.292	ppbv #	87
52) Tetrachloroethene	11.40	164	12806	0.127	ppbv #	78
53) Toluene	9.80	91	98887	0.327	ppbv #	1
58) Ethyl Benzene	12.88	91	16952311	38.169	ppbv #	83
59) m/p-Xylene	13.14	91	28490267	72.059	ppbv #	82
60) o-Xylene	13.87	91	16922980	42.569	ppbv	89
61) Styrene	13.70	104	705734	2.727	ppbv	96
62) Isopropylbenzene	14.84	105	2436595	4.534	ppbv	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120418\
Quantitation Report (Not Reviewed)

Data File : VL032892.D
Acq On : 5 Dec 2018 1:19
Operator : SY/AP
Sample : J6176-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
MMSV-05

Quant Time: Dec 05 05:52:14 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)
64) n-propylbenzene	15.73	120	264337	1.870	ppbv	99
65) tert-Butylbenzene	16.93	119	266712	0.554	ppbv #	73
67) sec-Butylbenzene	17.47	105	196041	0.282	ppbv	99
69) p-Isopropyltoluene	17.83	119	459138	0.832	ppbv	97
70) n-Butylbenzene	18.72	91	18698	0.033	ppbv #	33
71) 2-Chlorotoluene	15.86	91	41740	0.104	ppbv	75
72) 4-Ethyltoluene	16.01	105	1350918	3.100	ppbv	98
73) 1,3,5-Trimethylbenzene	16.17	105	3034694	7.123	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	2217597	4.864	ppbv #	70

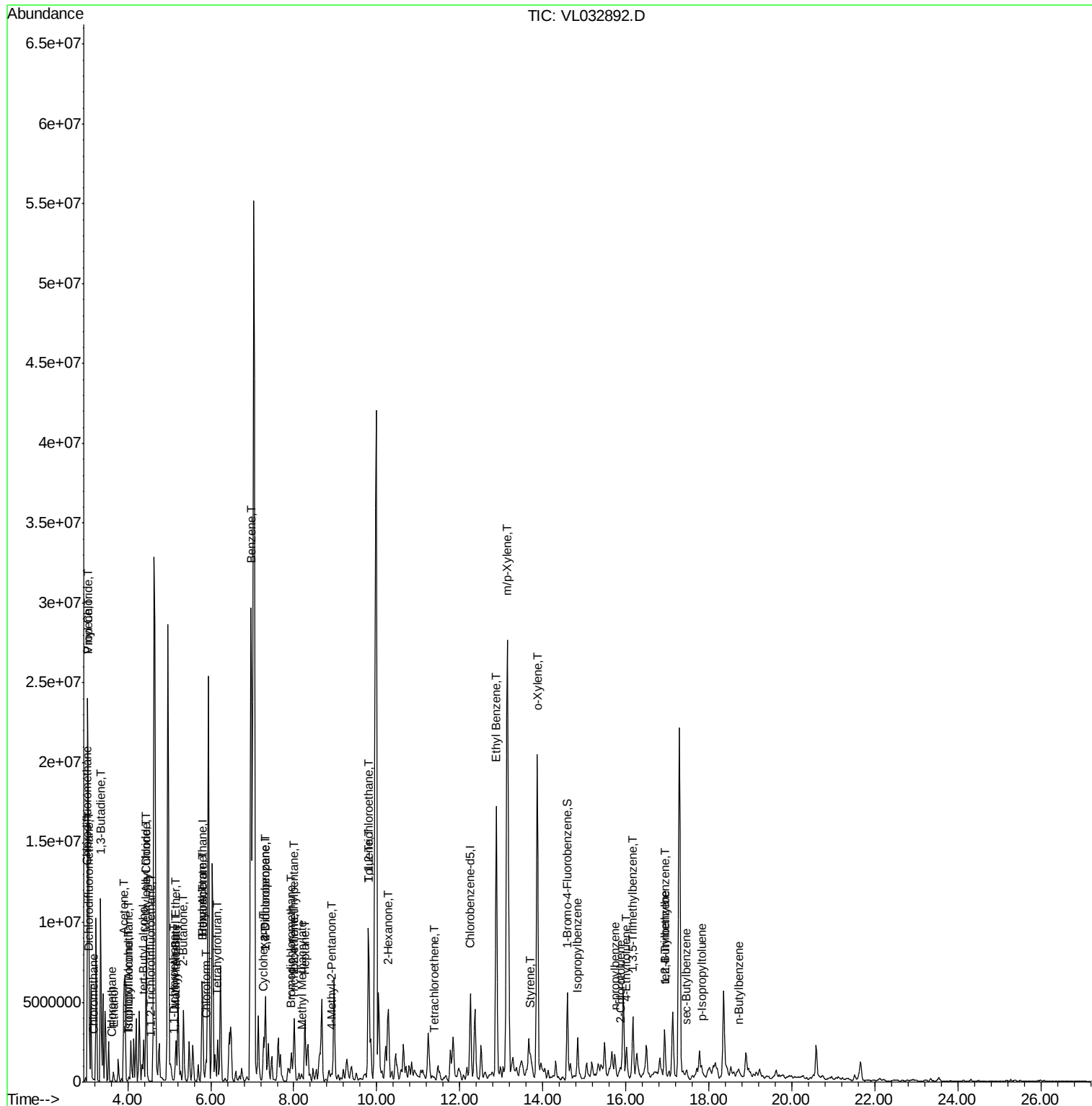
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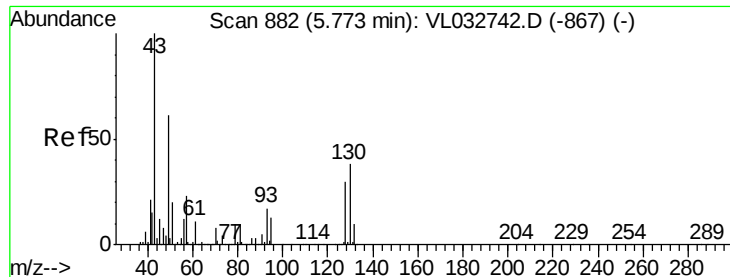
Data File : VL032892.D

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Acq On       : 5 Dec 2018 1:19
Operator    : SY/AP
Sample      : J6176-02
Misc       : 400ml/MSV0A_L
ALS Vial    : 1 Sample Multiplier: 1
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Instrument :
MSVOA_L
ClientSampleId :
MMSV-05

Quant Time: Dec 05 05:52:14 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
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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.78 min Scan# 885

Delta R.T. 0.01 min

Lab File: VL032892.D

Acq: 5 Dec 2018 1:19

Instrument :

MSVOA_L

ClientSampleId :

MMSV-05

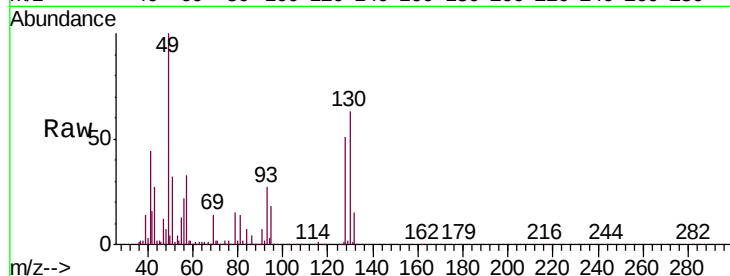
Tgt Ion: 49 Resp: 1341620

Ion Ratio Lower Upper

49 100

128 52.6 24.9 74.6

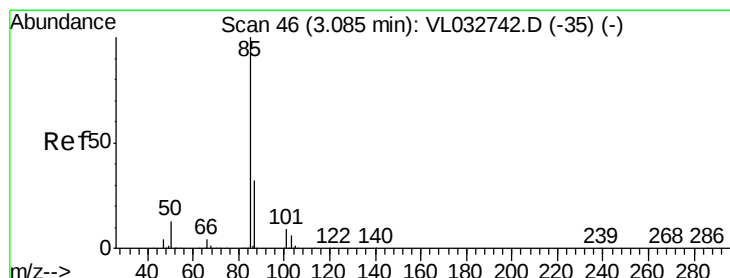
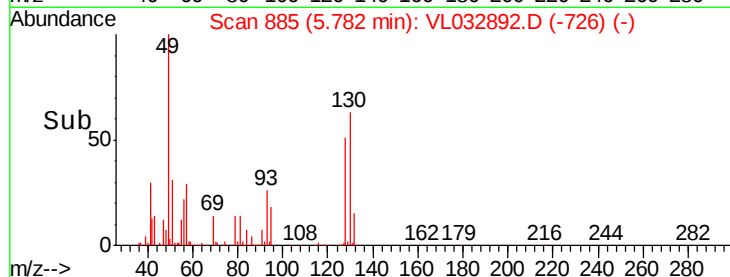
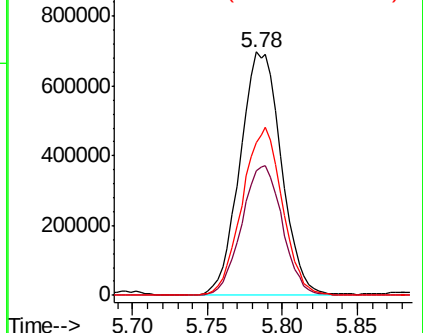
130 67.5 31.4 94.2



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: 0.185 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032892.D

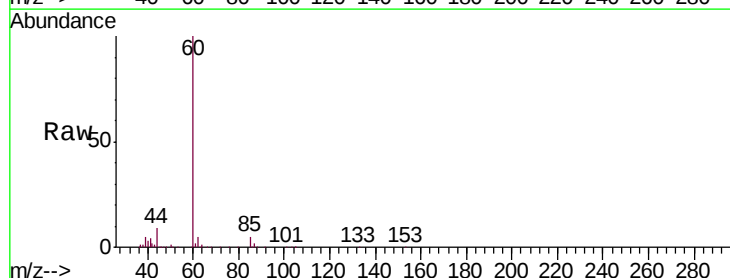
Acq: 5 Dec 2018 1:19

Tgt Ion: 85 Resp: 35698

Ion Ratio Lower Upper

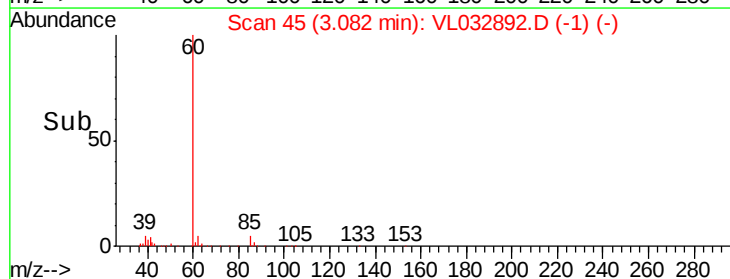
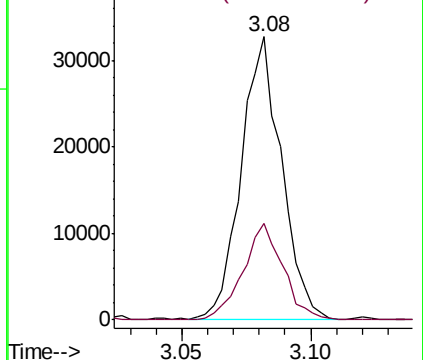
85 100

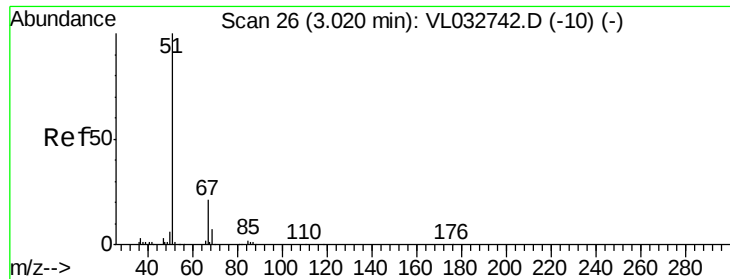
87 34.0 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.605 ppbv

RT: 3.02 min Scan# 25

Delta R.T. -0.00 min

Lab File: VL032892.D

Acq: 5 Dec 2018 1:19

Instrument :

MSVOA_L

ClientSampleId :

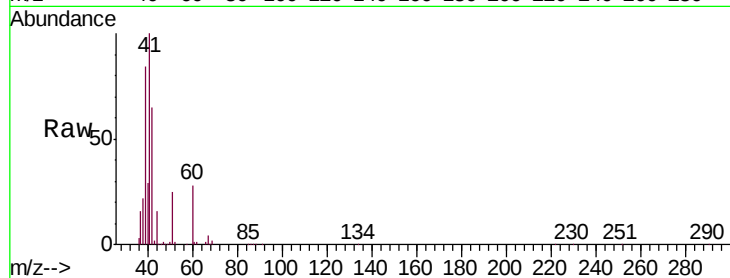
MMSV-05

Tgt Ion: 51 Resp: 64337

Ion Ratio Lower Upper

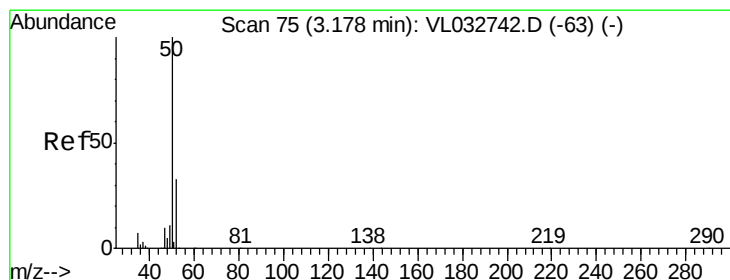
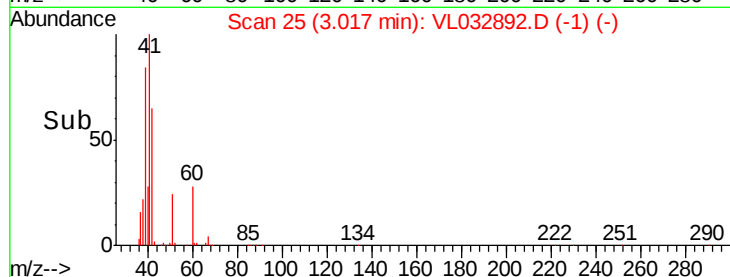
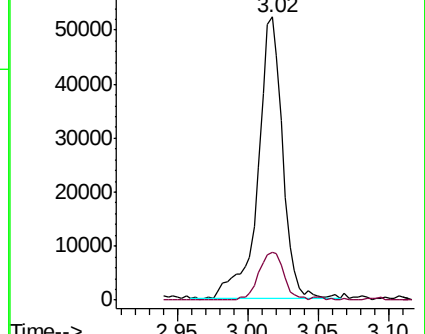
51 100

67 17.8 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: 0.630 ppbv

RT: 3.17 min Scan# 74

Delta R.T. -0.00 min

Lab File: VL032892.D

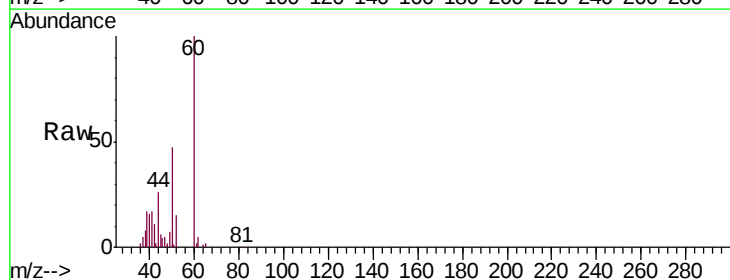
Acq: 5 Dec 2018 1:19

Tgt Ion: 50 Resp: 37167

Ion Ratio Lower Upper

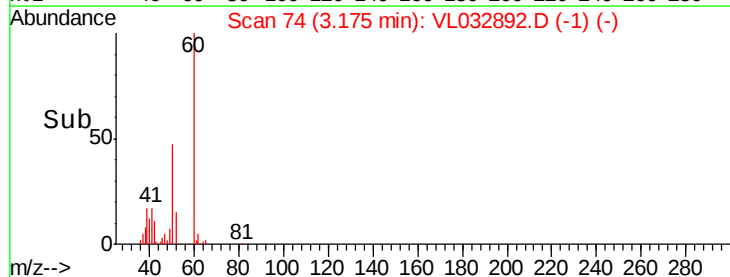
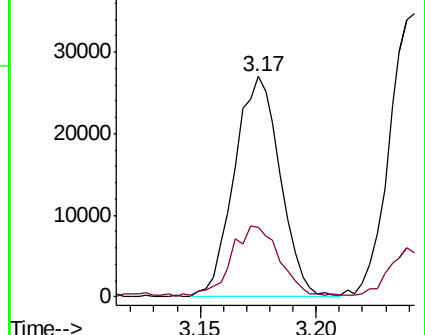
50 100

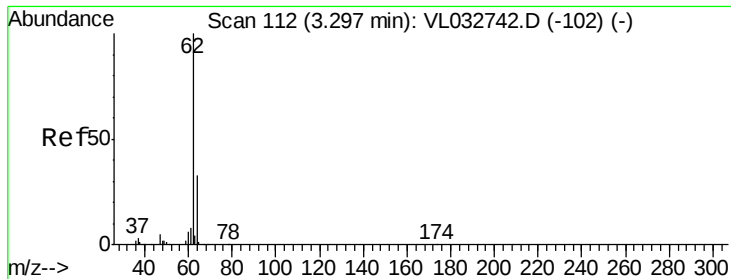
52 30.8 26.6 40.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 45.470 ppbv

RT: 3.05 min Scan# 34

Delta R.T. -0.25 min

Lab File: VL032892.D

Acq: 5 Dec 2018 1:19

Instrument :

MSVOA_L

ClientSampleId :

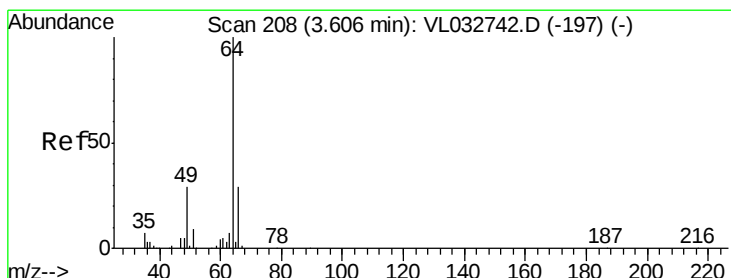
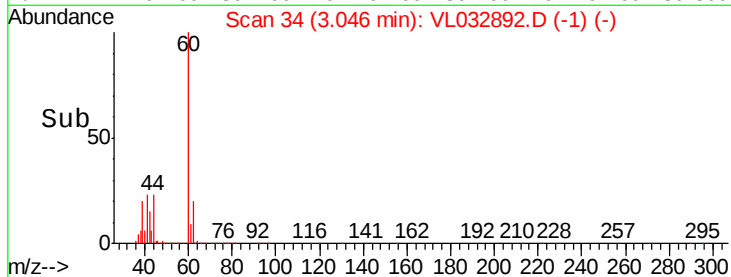
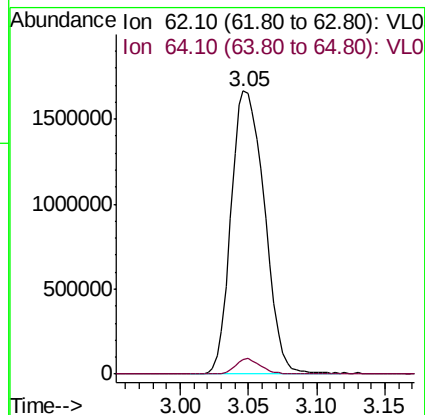
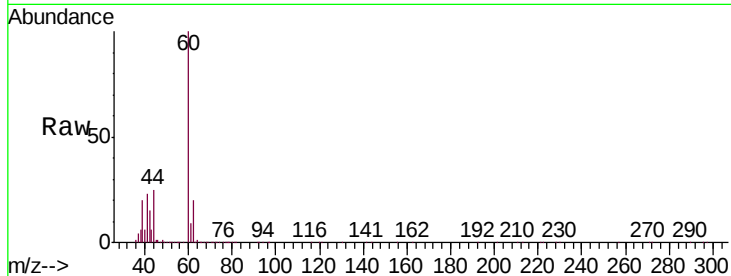
MMSV-05

Tgt Ion: 62 Resp: 2841614

Ion Ratio Lower Upper

62 100

64 5.0 26.2 39.4#



#7

Chloroethane

Concen: 0.030 ppbv

RT: 3.61 min Scan# 209

Delta R.T. 0.00 min

Lab File: VL032892.D

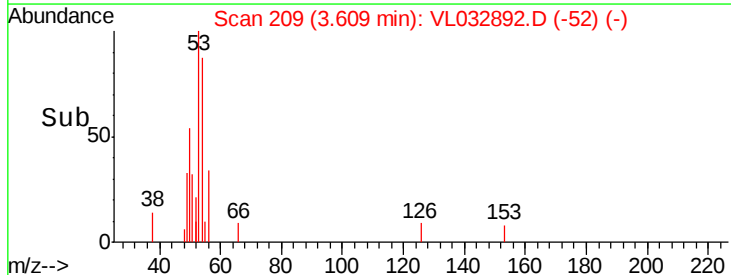
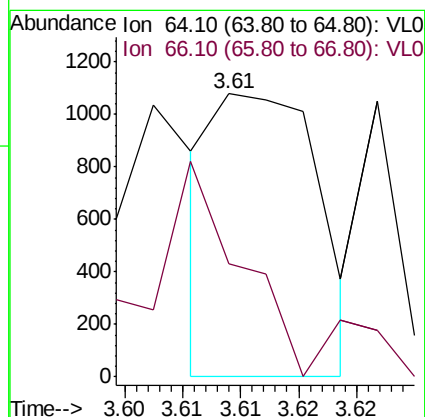
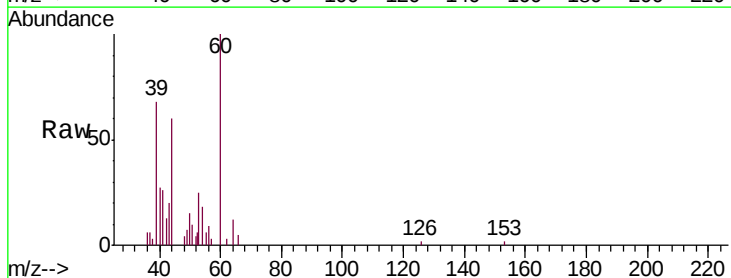
Acq: 5 Dec 2018 1:19

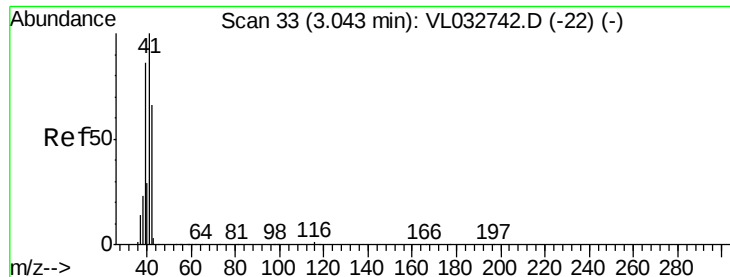
Tgt Ion: 64 Resp: 678

Ion Ratio Lower Upper

64 100

66 39.8 23.2 34.8#





#9

Propene

Concen: 132.051 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.01 min

Lab File: VL032892.D

Acq: 5 Dec 2018 1:19

Instrument :

MSVOA_L

ClientSampleId :

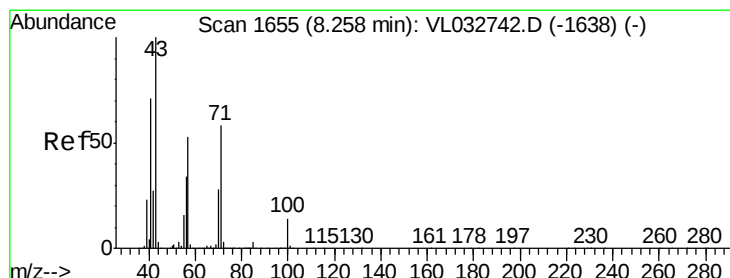
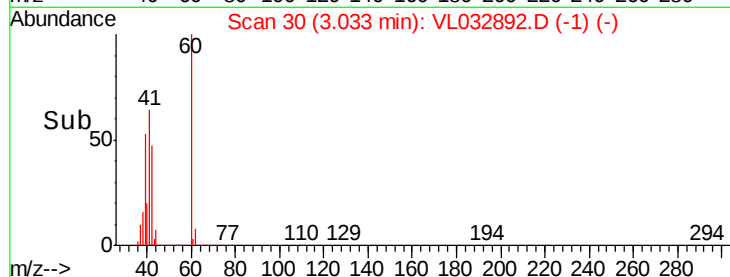
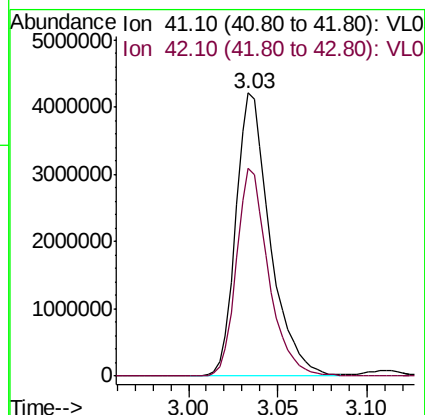
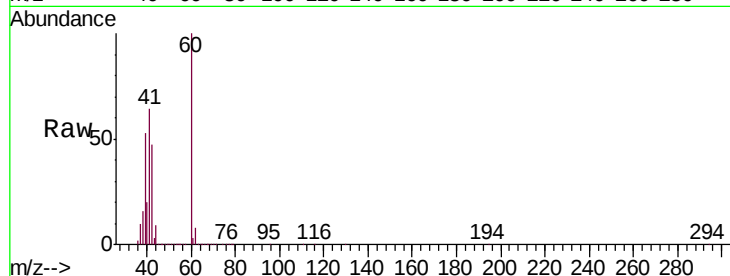
MMSV-05

Tgt Ion: 41 Resp: 5620771

Ion Ratio Lower Upper

41 100

42 69.2 55.0 82.6



#10

Heptane

Concen: 10.272 ppbv

RT: 8.27 min Scan# 1658

Delta R.T. 0.01 min

Lab File: VL032892.D

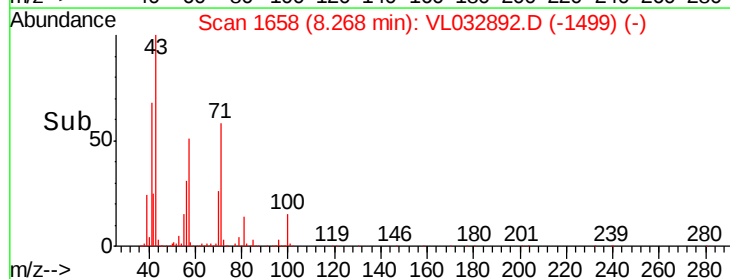
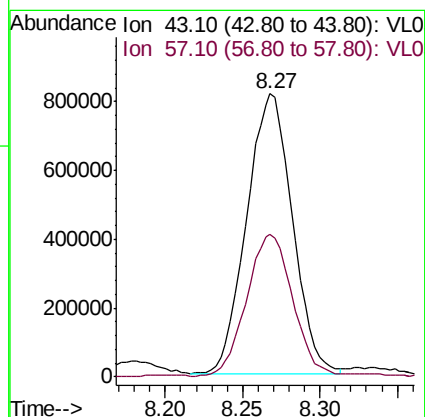
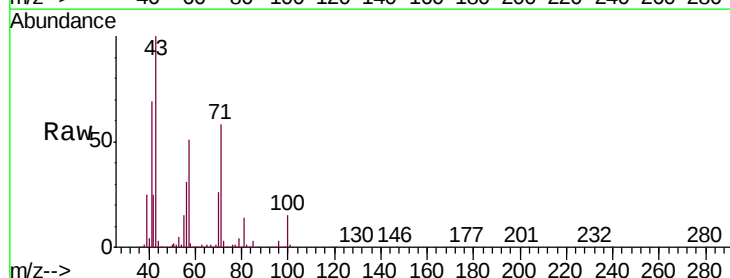
Acq: 5 Dec 2018 1:19

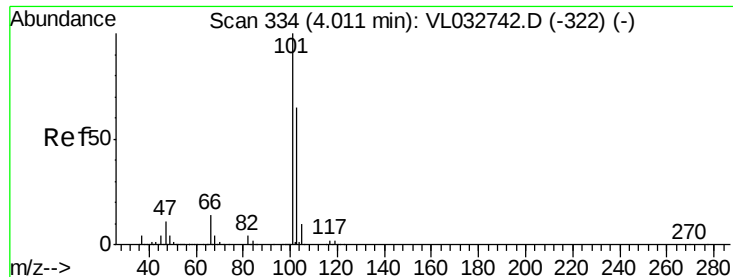
Tgt Ion: 43 Resp: 1669274

Ion Ratio Lower Upper

43 100

57 51.4 41.8 62.8

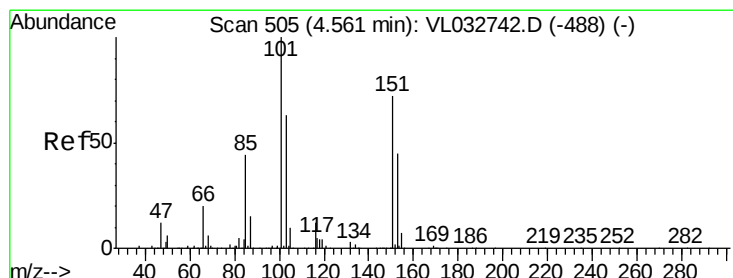
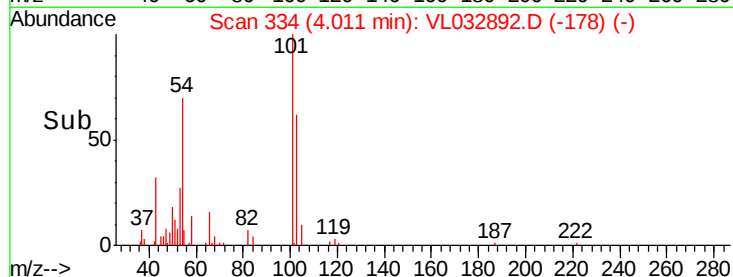
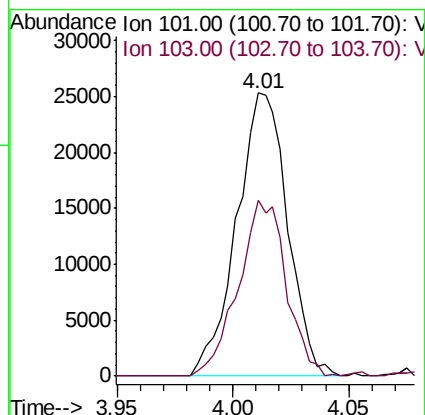
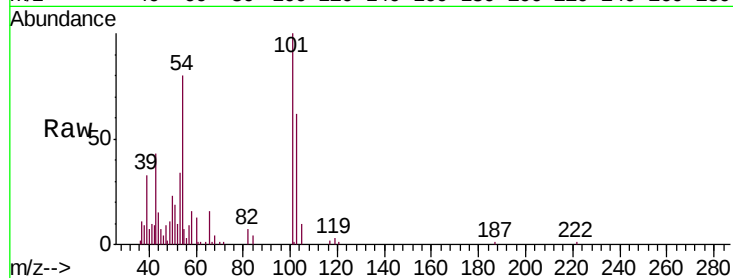




#11
 Trichlorofluoromethane
 Concen: 0.212 ppbv
 RT: 4.01 min Scan# 334
 Delta R.T. 0.00 min
 Lab File: VL032892.D
 Acq: 5 Dec 2018 1:19

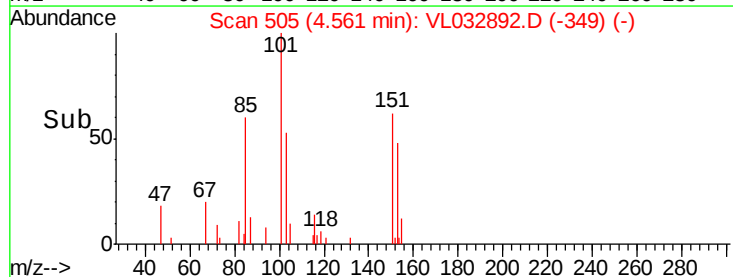
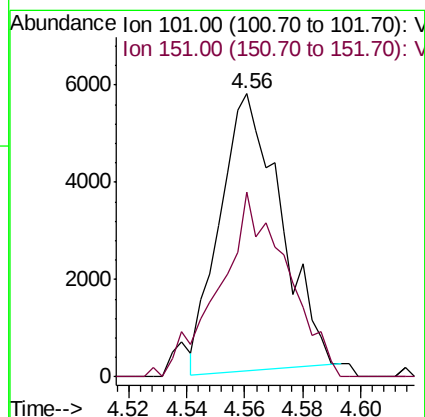
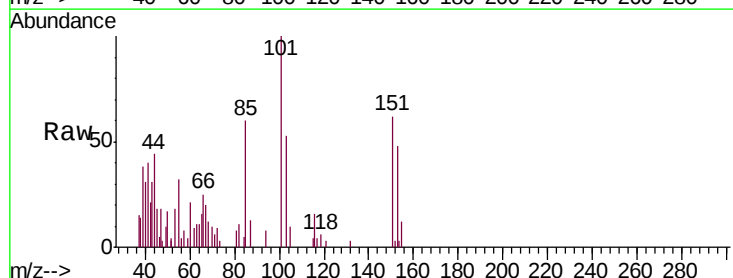
Instrument :
 MSVOA_L
 ClientSampleId :
 MMSV-05

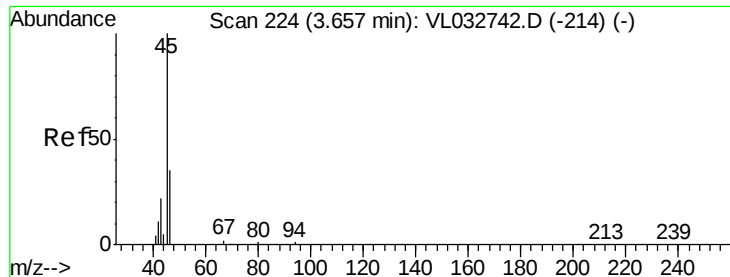
Tgt Ion:101 Resp: 38536
 Ion Ratio Lower Upper
 101 100
 103 62.2 51.6 77.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.056 ppbv
 RT: 4.56 min Scan# 505
 Delta R.T. 0.00 min
 Lab File: VL032892.D
 Acq: 5 Dec 2018 1:19

Tgt Ion:101 Resp: 8336
 Ion Ratio Lower Upper
 101 100
 151 73.8 56.7 85.1





#13

Ethanol

Concen: 42.452 ppbv

RT: 3.66 min Scan# 224

Delta R.T. 0.00 min

Lab File: VL032892.D

Acq: 5 Dec 2018 1:19

Instrument :

MSVOA_L

ClientSampleId :

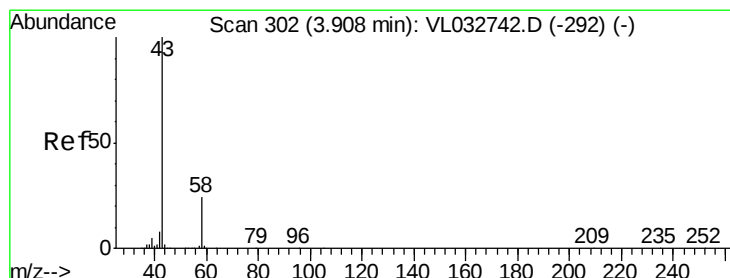
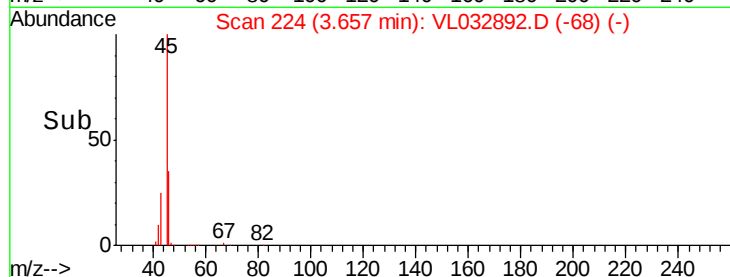
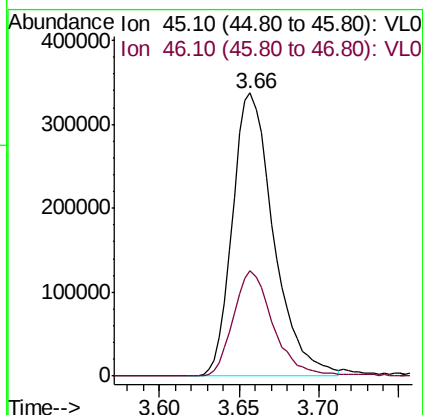
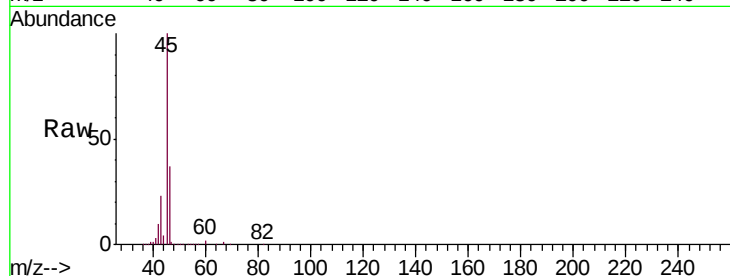
MMSV-05

Tgt Ion: 45 Resp: 591864

Ion Ratio Lower Upper

45 100

46 36.6 14.5 57.9



#15

Acetone

Concen: 66.568 ppbv

RT: 3.90 min Scan# 301

Delta R.T. -0.00 min

Lab File: VL032892.D

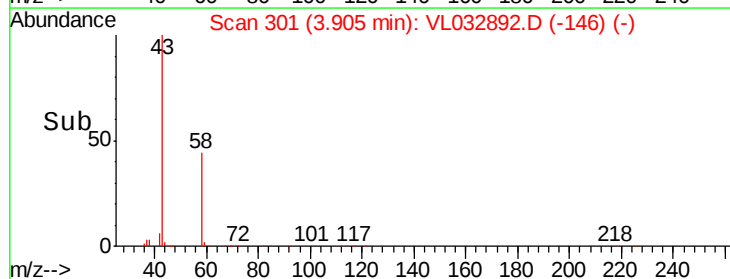
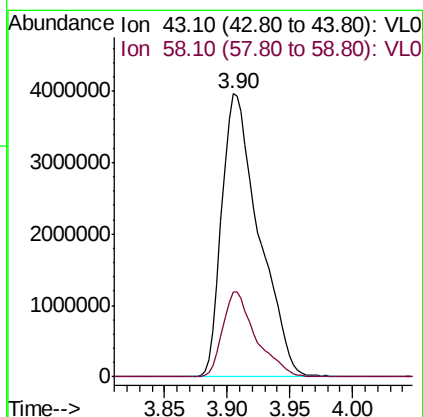
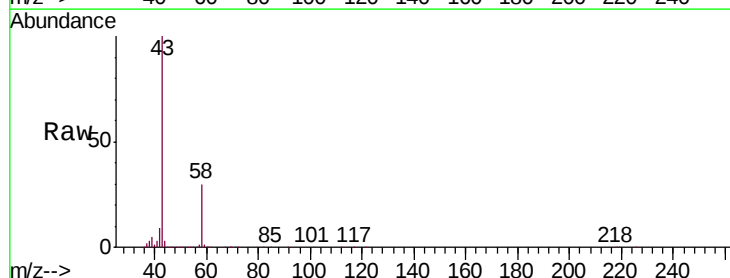
Acq: 5 Dec 2018 1:19

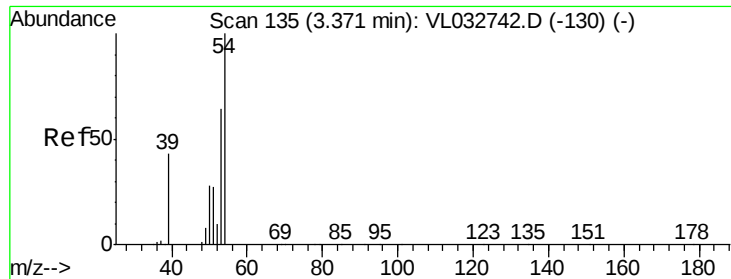
Tgt Ion: 43 Resp: 8155897

Ion Ratio Lower Upper

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58 27.0 21.1 31.7

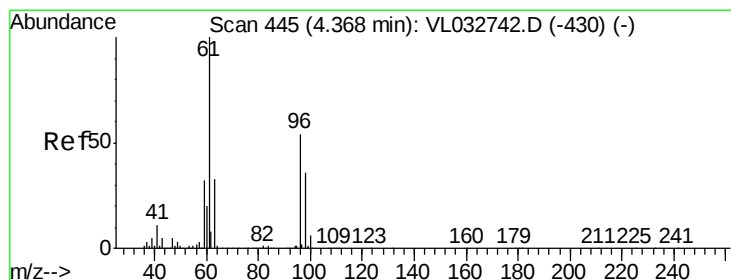
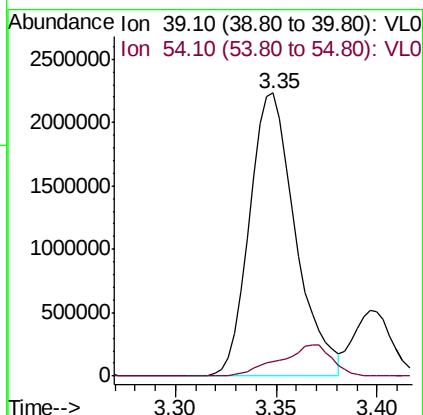
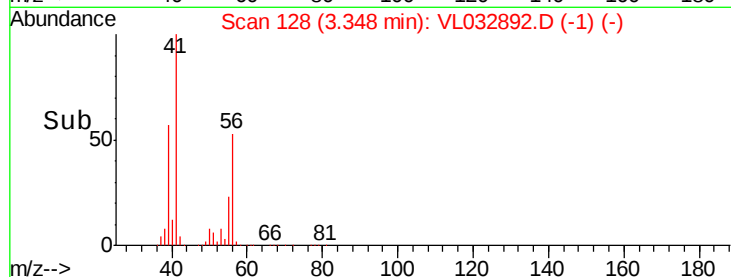
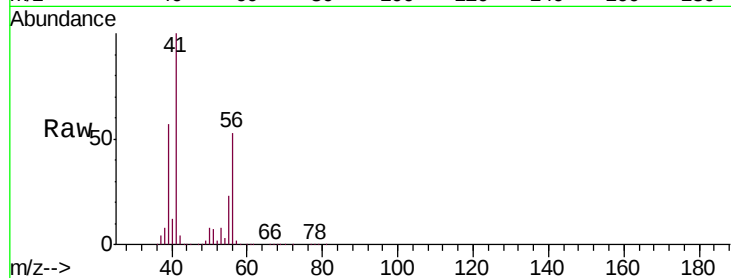




#16
1,3-Butadiene
Concen: 74.845 ppbv
RT: 3.35 min Scan# 128
Delta R.T. -0.02 min
Lab File: VL032892.D
Acq: 5 Dec 2018 1:19

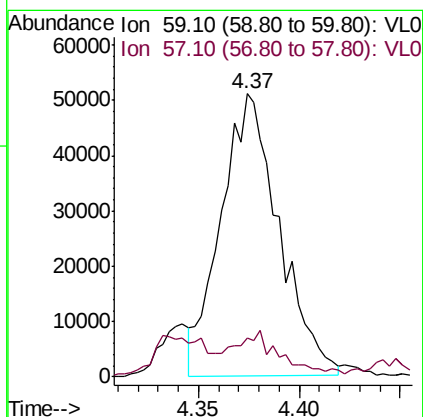
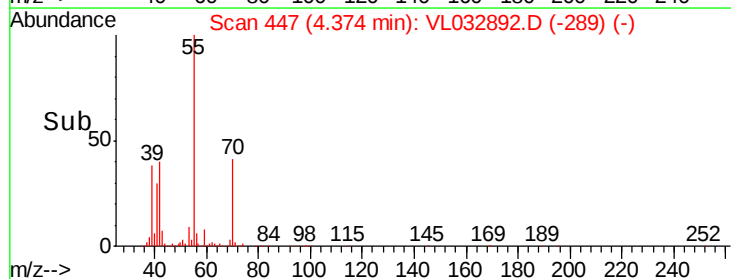
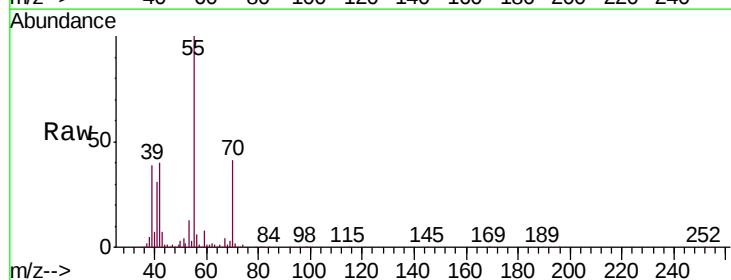
Instrument :
MSVOA_L
ClientSampleId :
MMSV-05

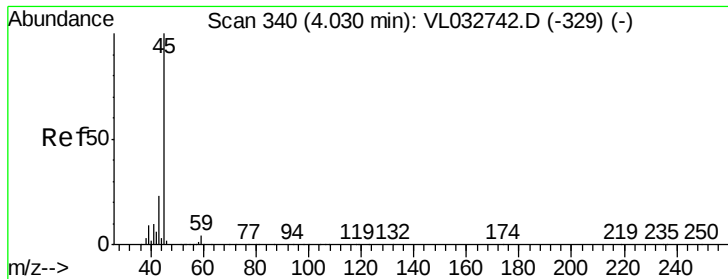
Tgt Ion: 39 Resp: 3551201
Ion Ratio Lower Upper
39 100
54 12.8 68.9 103.3#



#17
tert-Butyl alcohol
Concen: 2.658 ppbv
RT: 4.37 min Scan# 447
Delta R.T. 0.01 min
Lab File: VL032892.D
Acq: 5 Dec 2018 1:19

Tgt Ion: 59 Resp: 102147
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#





#19

Isopropyl Alcohol

Concen: 0.761 ppbv

RT: 4.04 min Scan# 342

Delta R.T. 0.01 min

Lab File: VL032892.D

Acq: 5 Dec 2018 1:19

Instrument :

MSVOA_L

ClientSampleId :

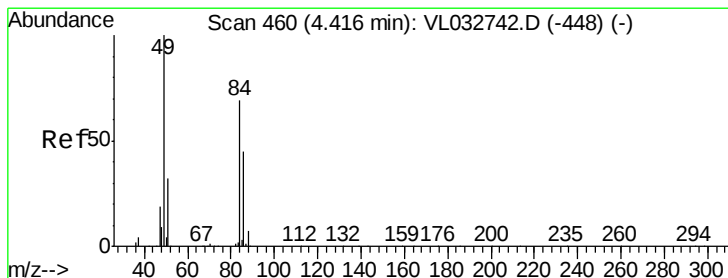
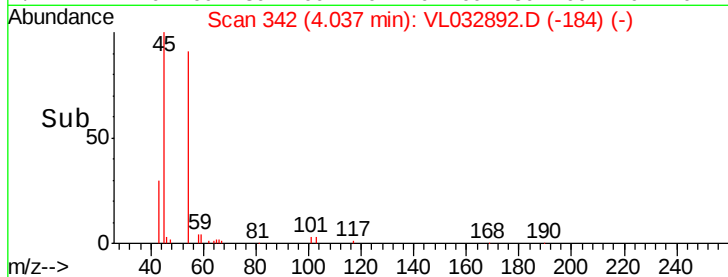
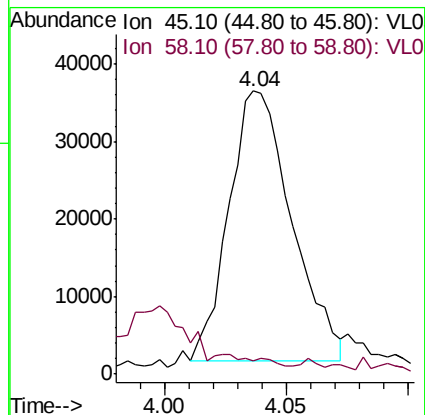
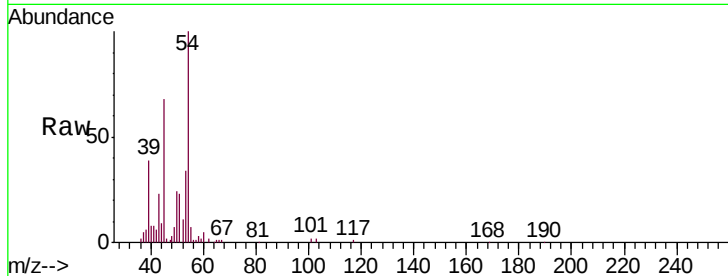
MMSV-05

Tgt Ion: 45 Resp: 62121

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.0#



#20

Methylene Chloride

Concen: 1.414 ppbv

RT: 4.43 min Scan# 463

Delta R.T. 0.01 min

Lab File: VL032892.D

Acq: 5 Dec 2018 1:19

Tgt Ion: 84 Resp: 89707

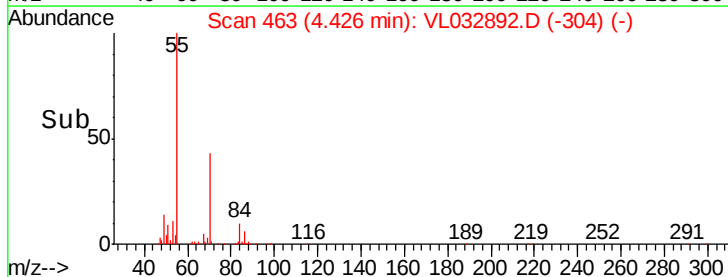
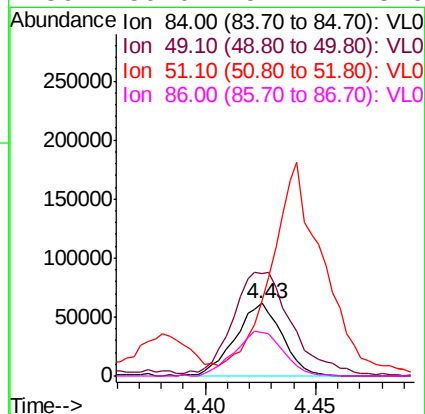
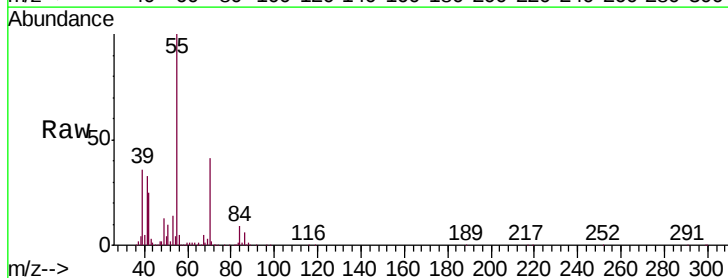
Ion Ratio Lower Upper

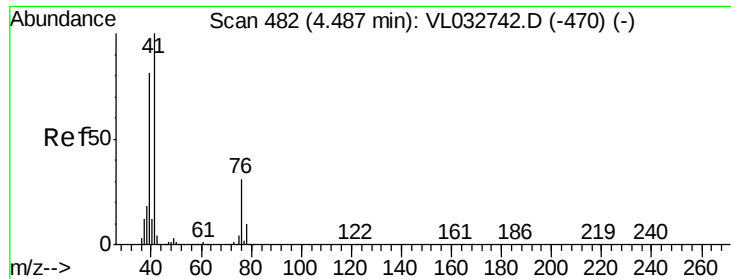
84 100

49 133.6 115.8 173.6

51 68.2 36.9 55.3#

86 59.0 52.4 78.6





#21

Allyl Chloride

Concen: 14.628 ppbv

RT: 4.44 min Scan# 468

Delta R.T. -0.04 min

Lab File: VL032892.D

Acq: 5 Dec 2018 1:19

Instrument :

MSVOA_L

ClientSampled :

MMSV-05

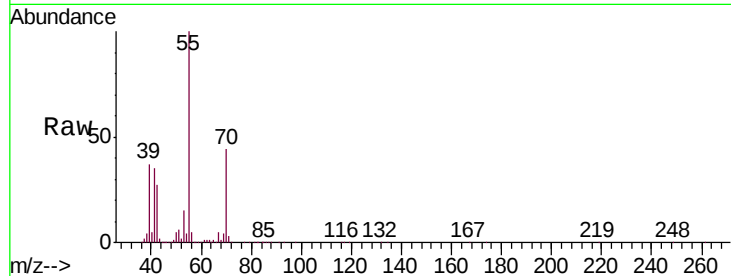
Tgt Ion: 41 Resp: 1506109

Ion Ratio Lower Upper

41 100

76 0.0 24.4 36.6#

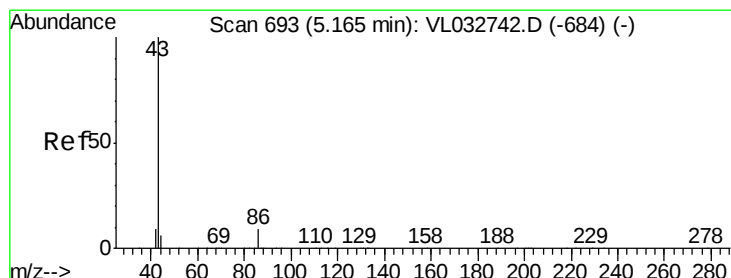
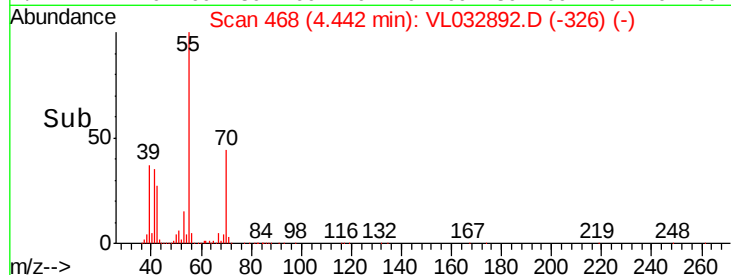
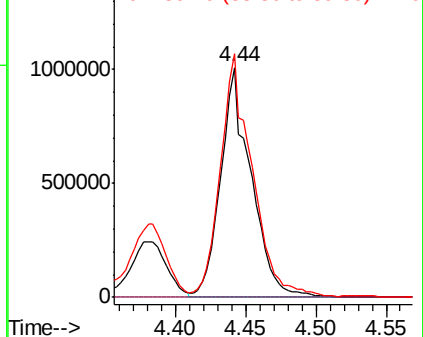
39 110.0 63.5 95.3#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#23

Vinyl Acetate

Concen: 3.633 ppbv

RT: 5.16 min Scan# 690

Delta R.T. -0.01 min

Lab File: VL032892.D

Acq: 5 Dec 2018 1:19

Tgt Ion: 43 Resp: 811301

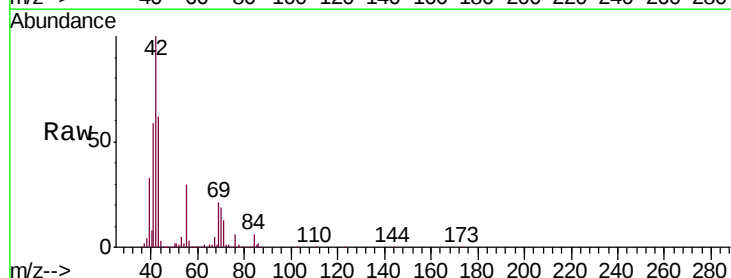
Ion Ratio Lower Upper

43 100

86 3.9 6.2 9.4#

42 161.0 7.8 11.6#

44 2.0 4.4 6.6#

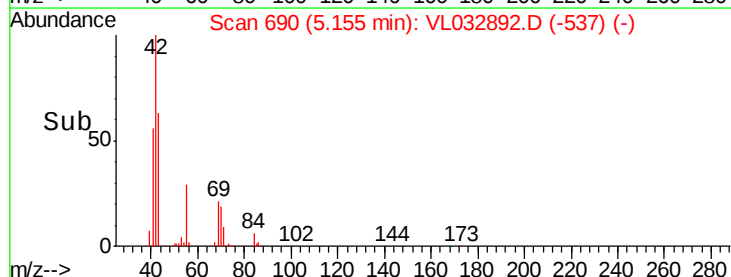
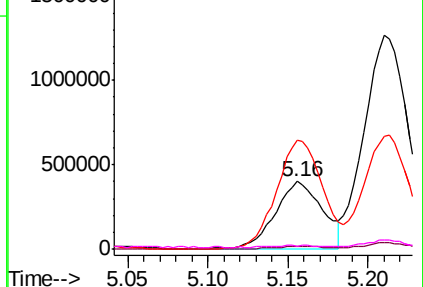


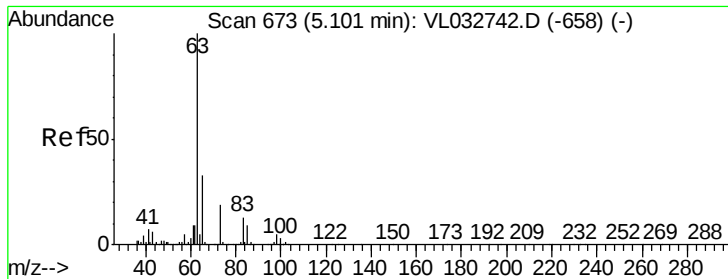
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.053 ppbv

RT: 5.10 min Scan# 674

Delta R.T. 0.00 min

Lab File: VL032892.D

Acq: 5 Dec 2018 1:19

Instrument :

MSVOA_L

ClientSampleId :

MMSV-05

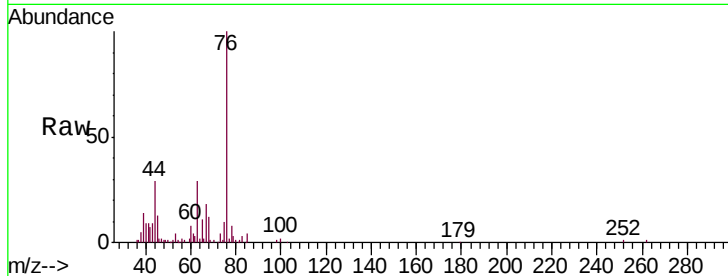
Tgt Ion: 63 Resp: 9348

Ion Ratio Lower Upper

63 100

98 4.2 2.3 6.8

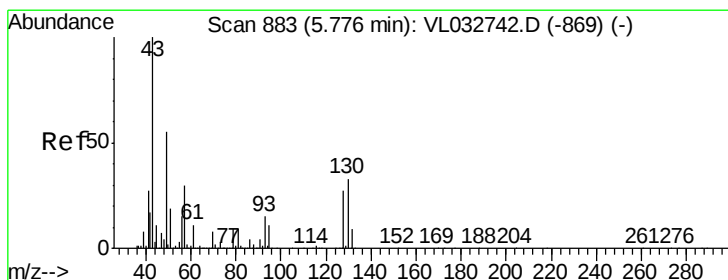
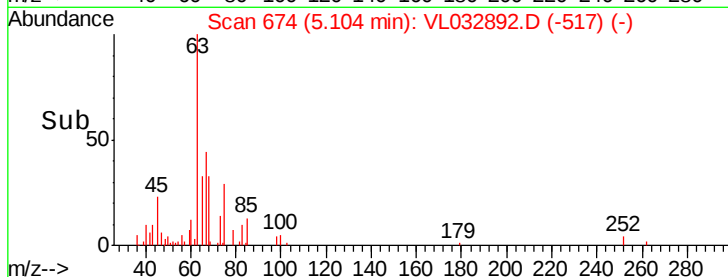
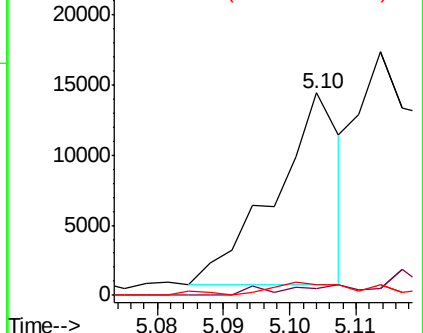
100 3.4 1.4 4.2



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: 5.058 ppbv

RT: 5.80 min Scan# 891

Delta R.T. 0.03 min

Lab File: VL032892.D

Acq: 5 Dec 2018 1:19

Tgt Ion: 43 Resp: 1444289

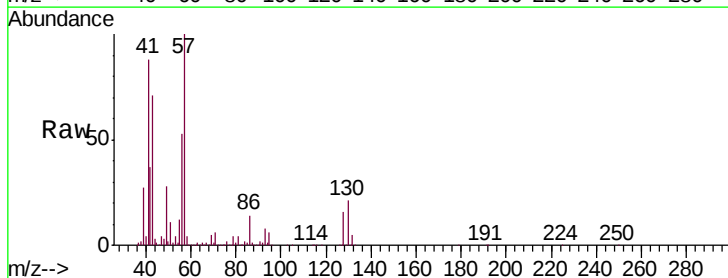
Ion Ratio Lower Upper

43 100

45 2.6 7.9 11.9#

61 0.8 7.8 11.6#

70 2.6 5.8 8.6#

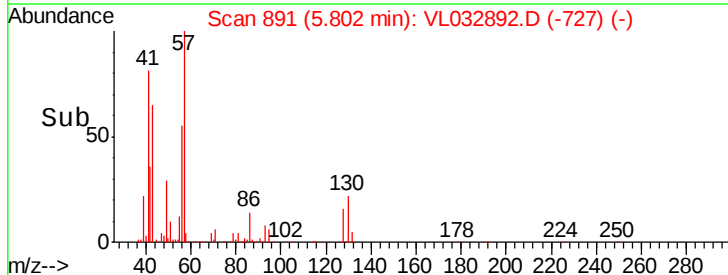
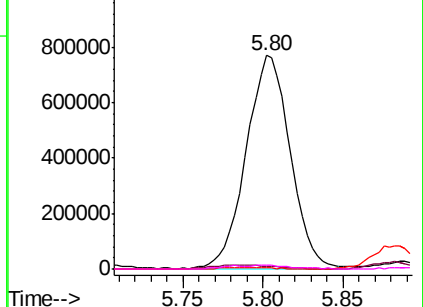


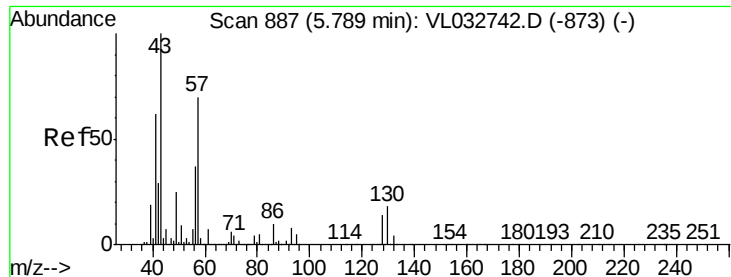
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 15.899 ppbv

RT: 5.80 min Scan# 892

Delta R.T. 0.02 min

Lab File: VL032892.D

Acq: 5 Dec 2018 1:19

Instrument :

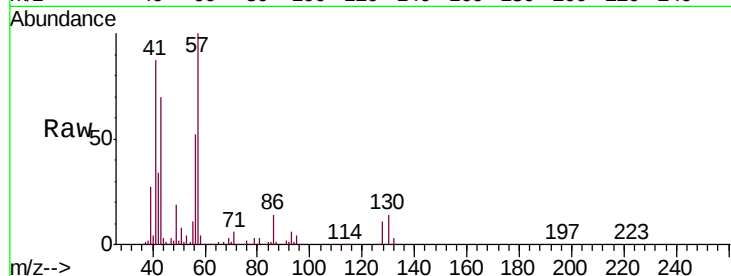
MSVOA_L

ClientSampleId :

MMSV-05

Tgt Ion: 57 Resp: 2020981

Ion	Ratio	Lower	Upper
57	100		
41	99.8	70.3	105.5
43	71.5	174.0	261.0#
56	57.1	42.3	63.5

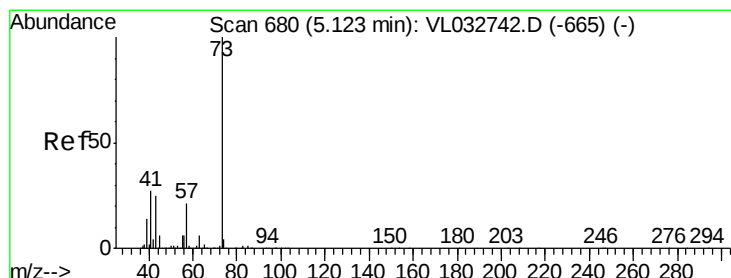
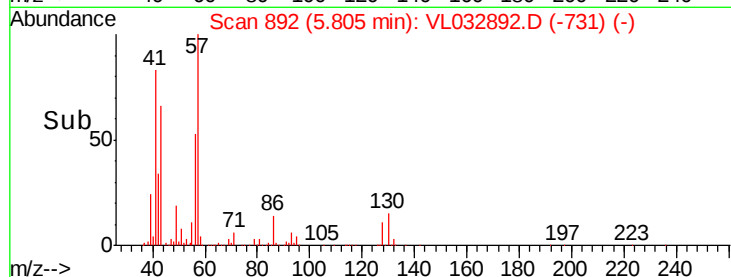
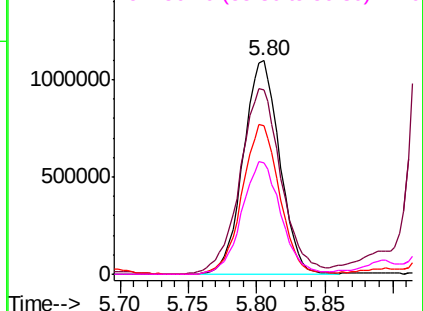


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#28

Methyl tert-Butyl Ether

Concen: 0.192 ppbv

RT: 5.14 min Scan# 684

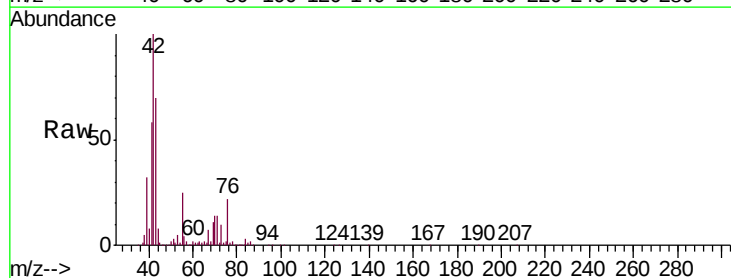
Delta R.T. 0.01 min

Lab File: VL032892.D

Acq: 5 Dec 2018 1:19

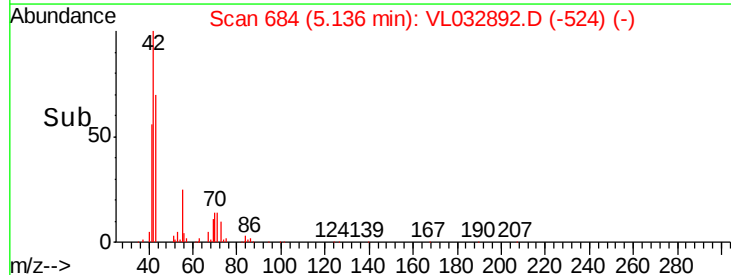
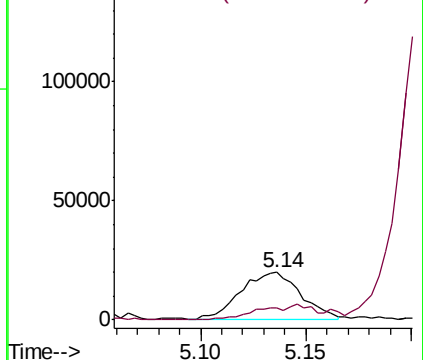
Tgt Ion: 73 Resp: 38967

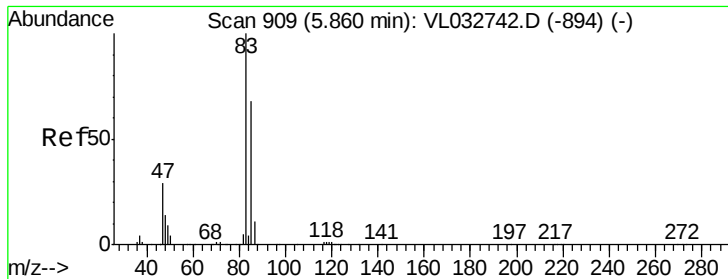
Ion	Ratio	Lower	Upper
73	100		
57	775.8	17.5	26.3#



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 0.113 ppbv

RT: 5.87 min Scan# 913

Delta R.T. 0.01 min

Lab File: VL032892.D

Acq: 5 Dec 2018 1:19

Instrument :

MSVOA_L

ClientSampleId :

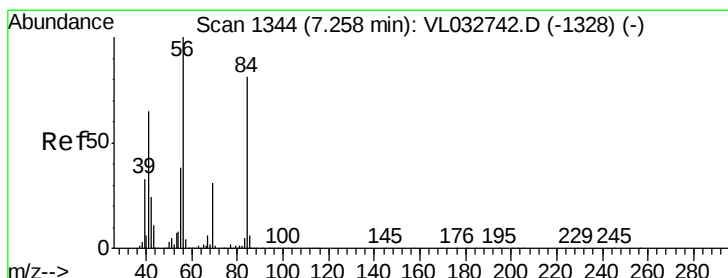
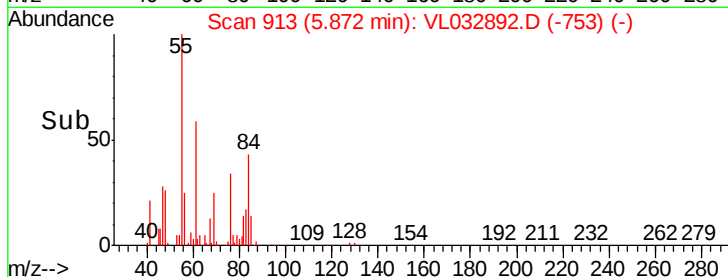
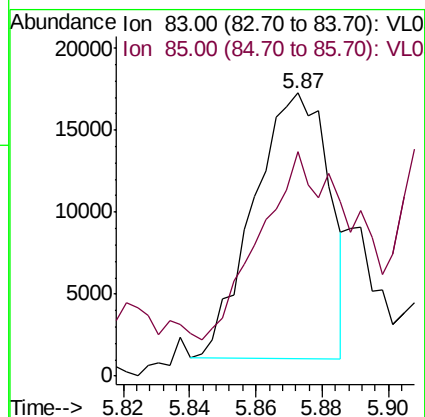
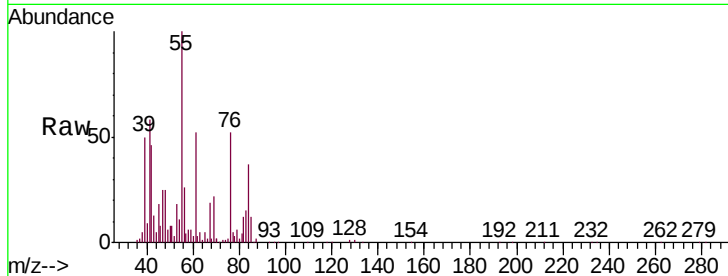
MMSV-05

Tgt Ion: 83 Resp: 25557

Ion Ratio Lower Upper

83 100

85 68.7 54.2 81.4



#30

Cyclohexane

Concen: 9.365 ppbv

RT: 7.27 min Scan# 1348

Delta R.T. 0.01 min

Lab File: VL032892.D

Acq: 5 Dec 2018 1:19

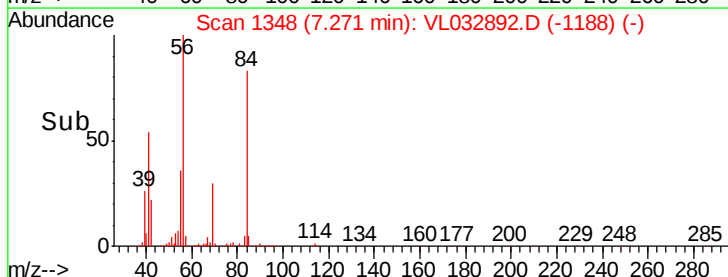
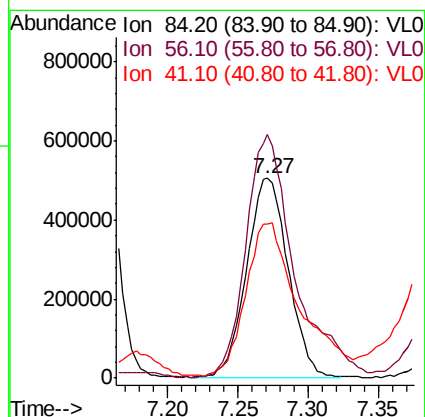
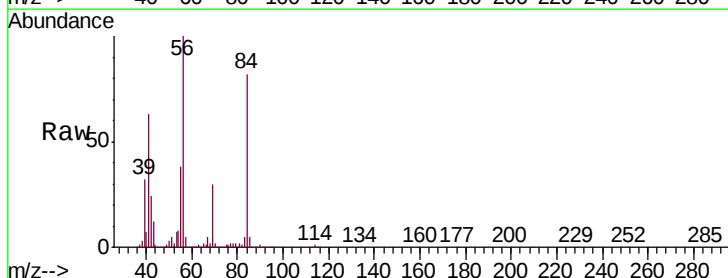
Tgt Ion: 84 Resp: 1041148

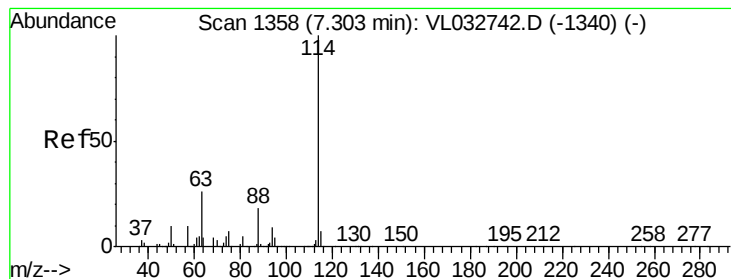
Ion Ratio Lower Upper

84 100

56 142.5 105.0 157.4

41 97.2 65.3 97.9





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.32 min Scan# 1362

Delta R.T. 0.01 min

Lab File: VL032892.D

Acq: 5 Dec 2018 1:19

Instrument :

MSVOA_L

ClientSampleId :

MMSV-05

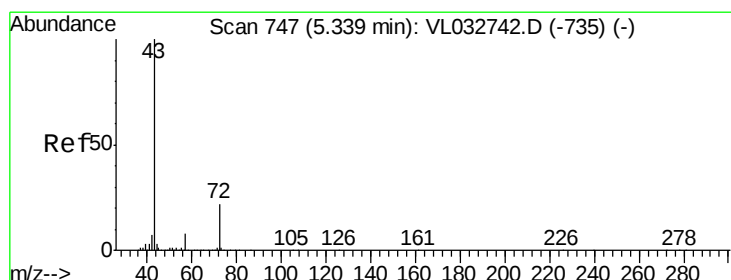
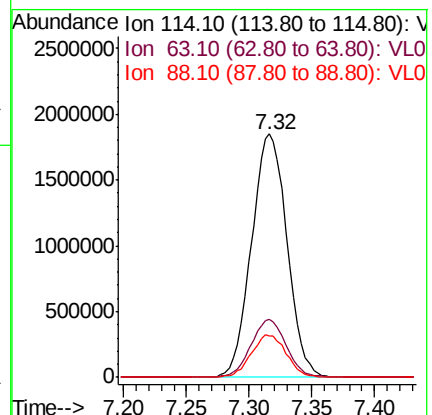
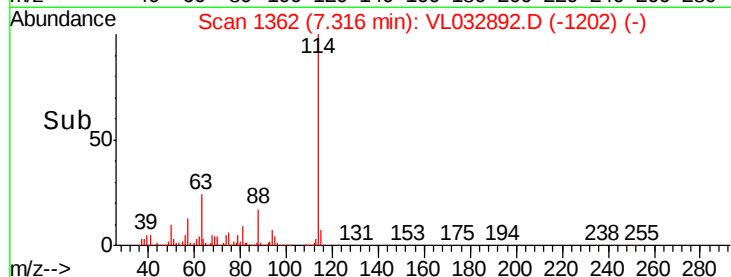
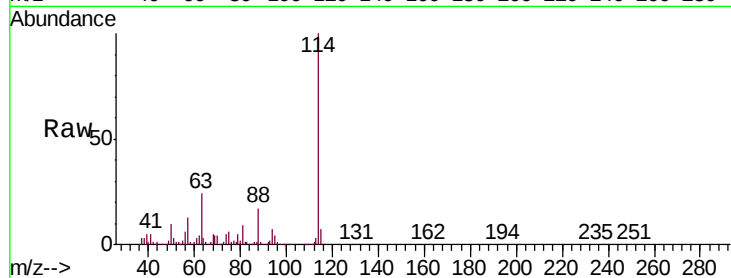
Tgt Ion:114 Resp: 3636963

Ion Ratio Lower Upper

114 100

63 24.0 20.9 31.3

88 17.3 14.4 21.6



#34

2-Butanone

Concen: 29.141 ppbv

RT: 5.34 min Scan# 748

Delta R.T. 0.00 min

Lab File: VL032892.D

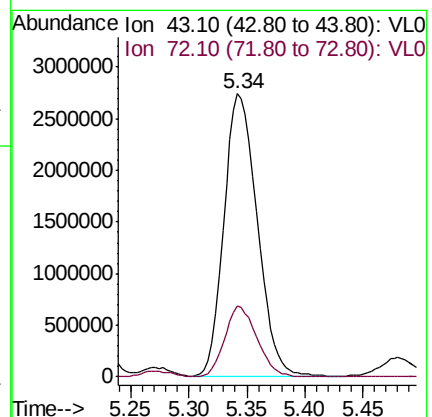
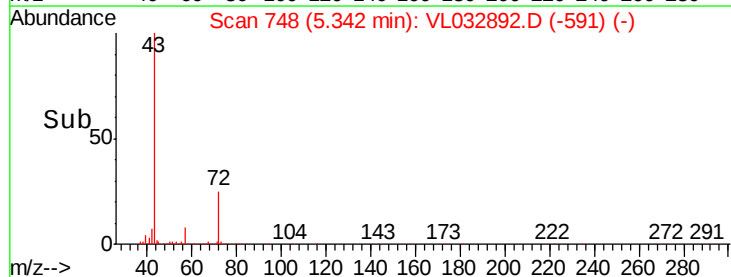
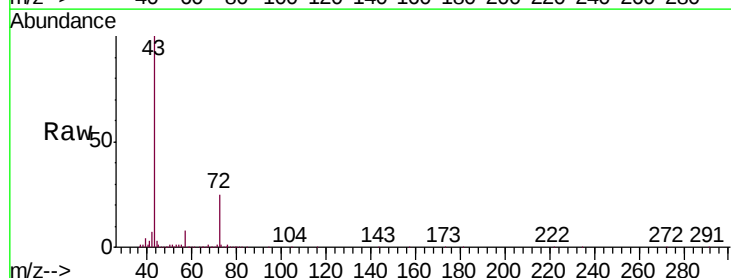
Acq: 5 Dec 2018 1:19

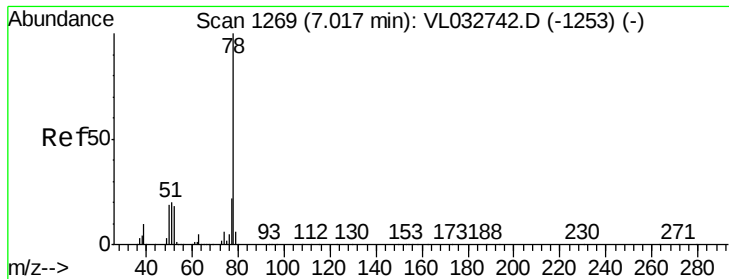
Tgt Ion: 43 Resp: 5497092

Ion Ratio Lower Upper

43 100

72 24.0 18.4 27.6





#36

Benzene

Concen: 0.565 ppbv

RT: 6.97 min Scan# 1253

Delta R.T. -0.05 min

Lab File: VL032892.D

Acq: 5 Dec 2018 1:19

Instrument :

MSVOA_L

ClientSampleId :

MMSV-05

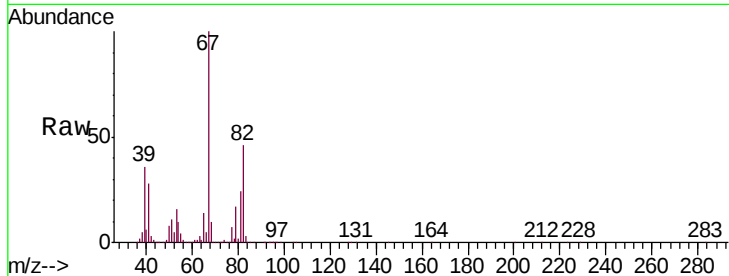
Tgt Ion: 78 Resp: 163773

Ion Ratio Lower Upper

78 100

77 440.9 17.8 26.8#

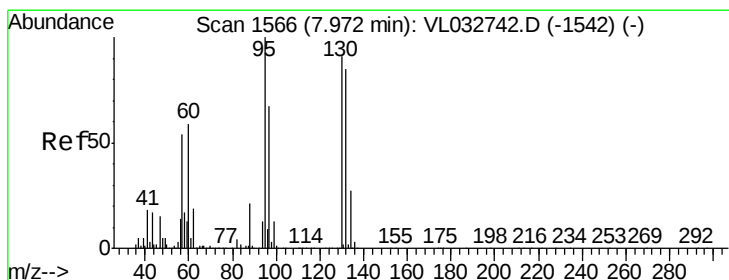
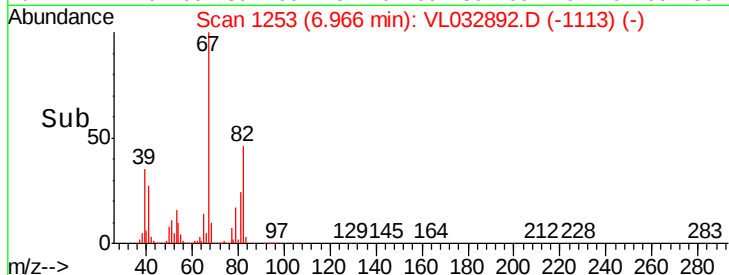
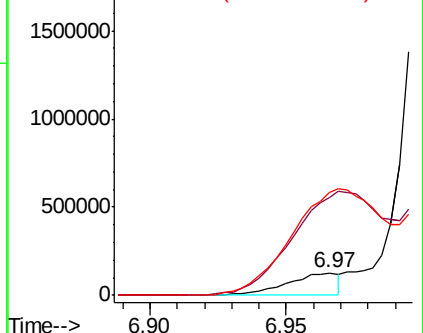
50 464.4 15.4 23.0#



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: 0.092 ppbv

RT: 7.98 min Scan# 1570

Delta R.T. 0.01 min

Lab File: VL032892.D

Acq: 5 Dec 2018 1:19

Tgt Ion: 130 Resp: 10746

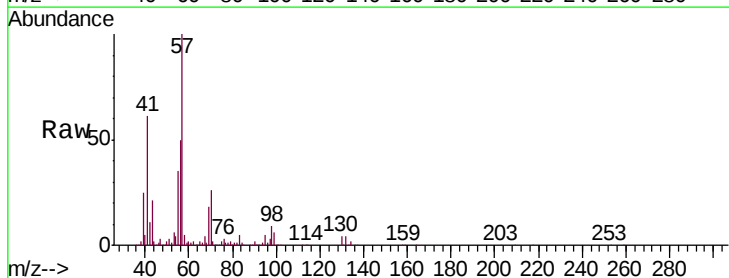
Ion Ratio Lower Upper

130 100

95 76.7 87.7 131.5#

132 68.6 74.6 111.8#

97 37.9 58.3 87.5#

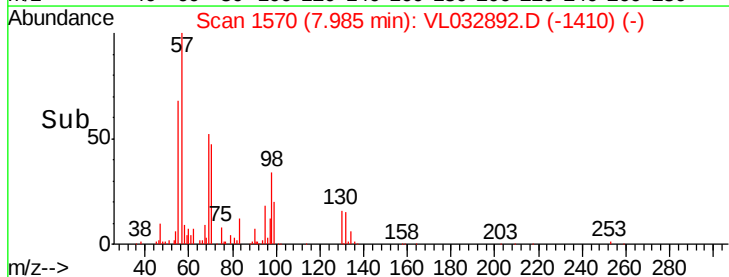
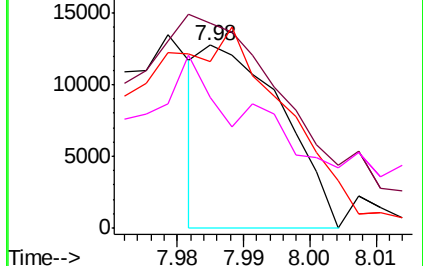


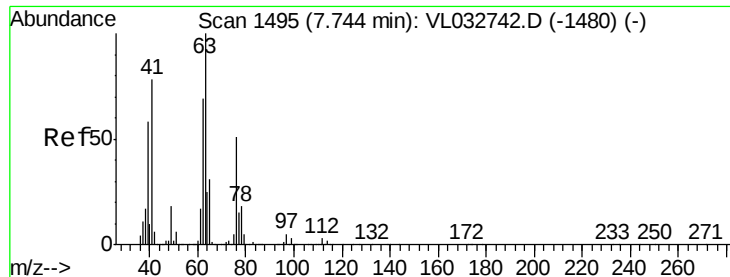
Abundance Ion 130.00 (129.70 to 130.70): V

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: 7.612 ppbv

RT: 7.32 min Scan# 1362

Delta R.T. -0.43 min

Lab File: VL032892.D

Acq: 5 Dec 2018 1:19

Instrument :

MSVOA_L

ClientSampleId :

MMSV-05

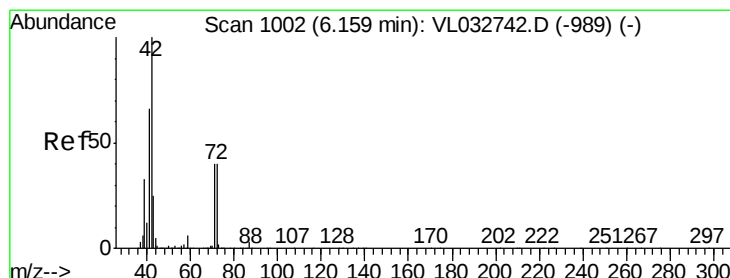
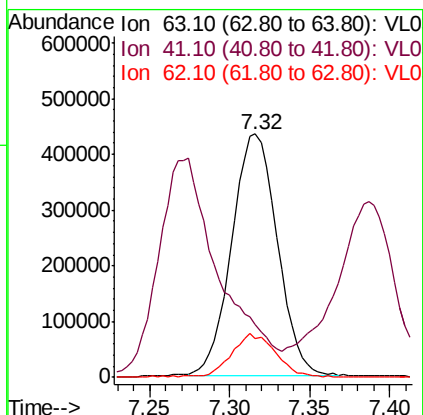
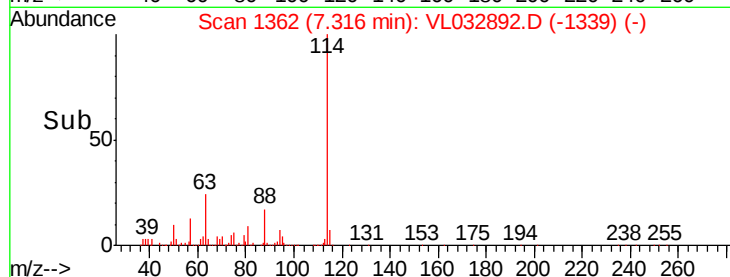
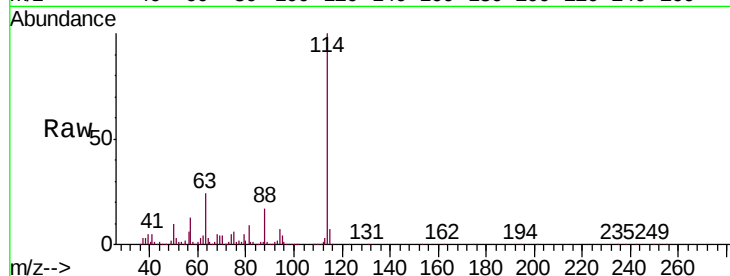
Tgt Ion: 63 Resp: 839901

Ion Ratio Lower Upper

63 100

41 0.0 62.0 93.0#

62 15.7 55.4 83.2#



#41

Tetrahydrofuran

Concen: 14.234 ppbv

RT: 6.17 min Scan# 1004

Delta R.T. 0.01 min

Lab File: VL032892.D

Acq: 5 Dec 2018 1:19

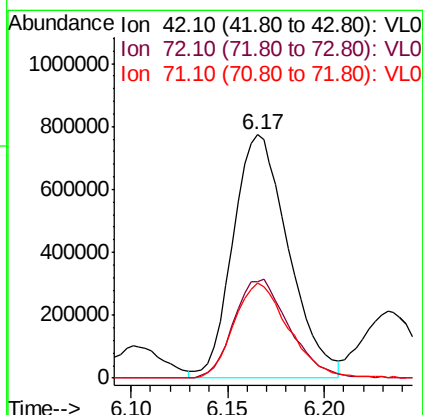
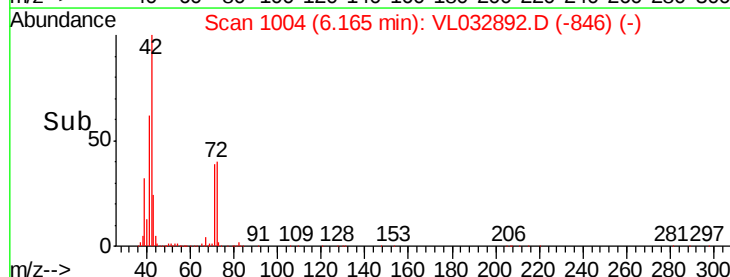
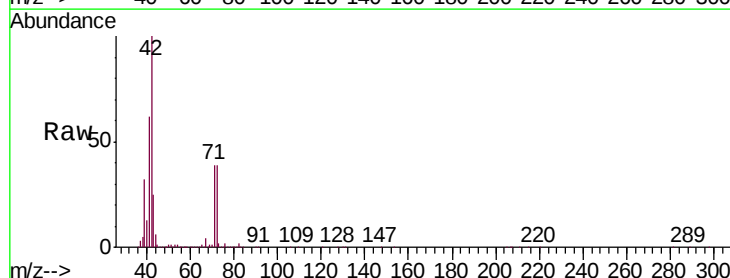
Tgt Ion: 42 Resp: 1540164

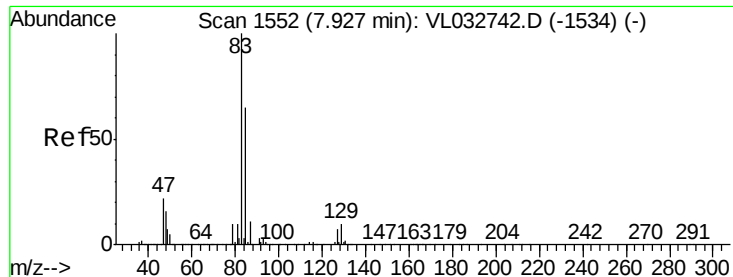
Ion Ratio Lower Upper

42 100

72 40.7 32.4 48.6

71 39.3 31.6 47.4





#42

Bromodichloromethane

Concen: 1.853 ppbv

RT: 7.94 min Scan# 1555

Delta R.T. 0.01 min

Lab File: VL032892.D

Acq: 5 Dec 2018 1:19

Instrument :

MSVOA_L

ClientSampleId :

MMSV-05

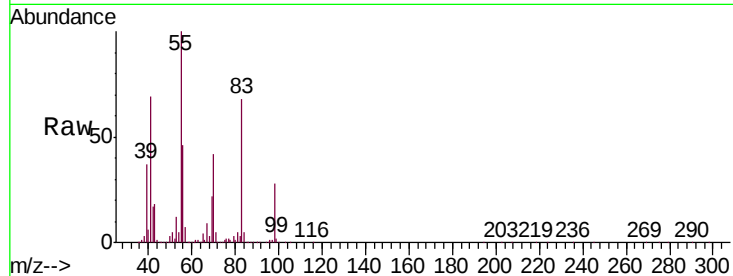
Tgt Ion: 83 Resp: 489721

Ion Ratio Lower Upper

83 100

85 0.7 51.8 77.8#

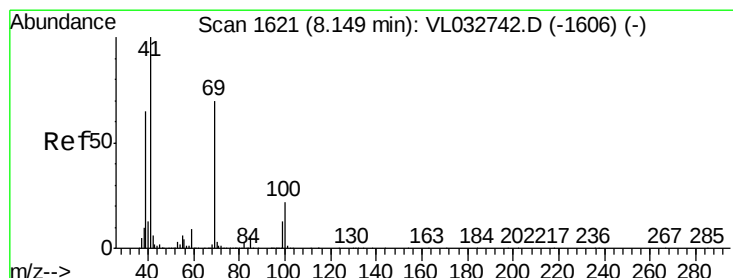
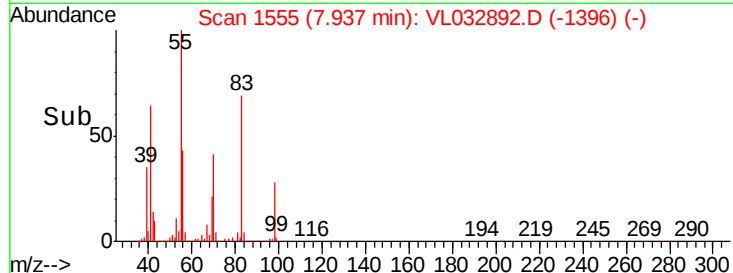
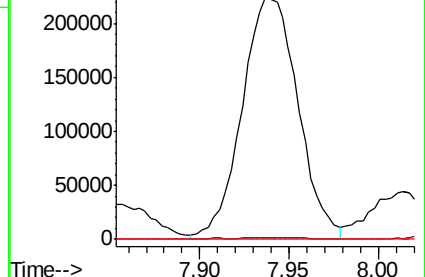
127 0.0 5.9 8.9#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): VL0



#43

Methyl Methacrylate

Concen: 0.494 ppbv

RT: 8.20 min Scan# 1637

Delta R.T. 0.05 min

Lab File: VL032892.D

Acq: 5 Dec 2018 1:19

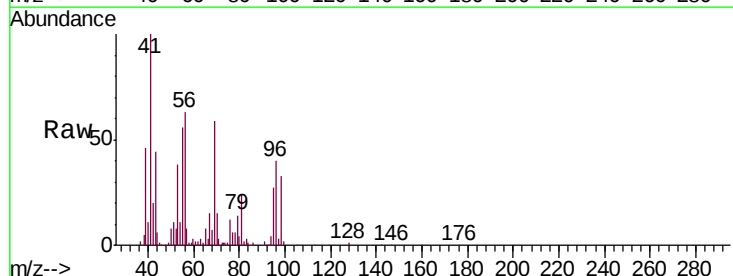
Tgt Ion: 69 Resp: 53396

Ion Ratio Lower Upper

69 100

41 162.5 115.0 172.4

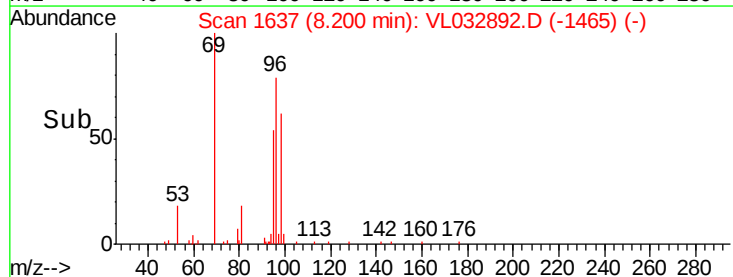
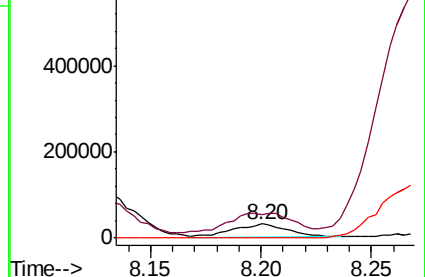
100 0.0 25.4 38.0#

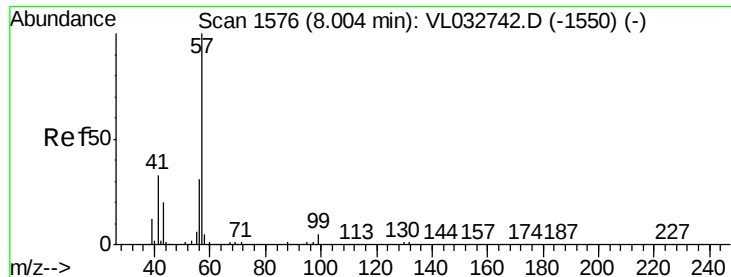


Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 6.449 ppbv

RT: 8.01 min Scan# 1579

Delta R.T. 0.01 min

Lab File: VL032892.D

Acq: 5 Dec 2018 1:19

Instrument :

MSVOA_L

ClientSampleId :

MMSV-05

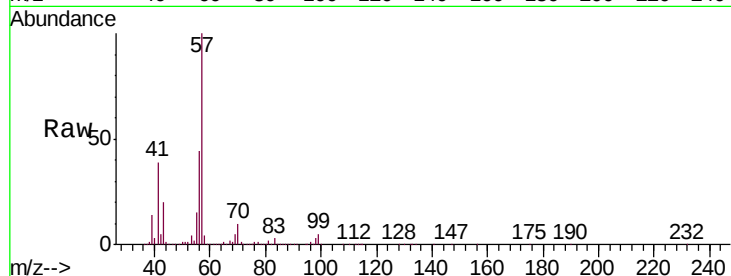
Tgt Ion: 57 Resp: 3121364

Ion Ratio Lower Upper

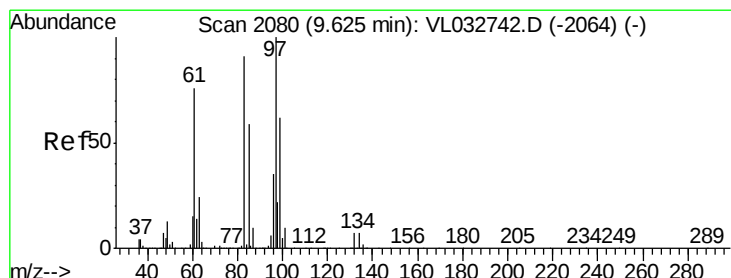
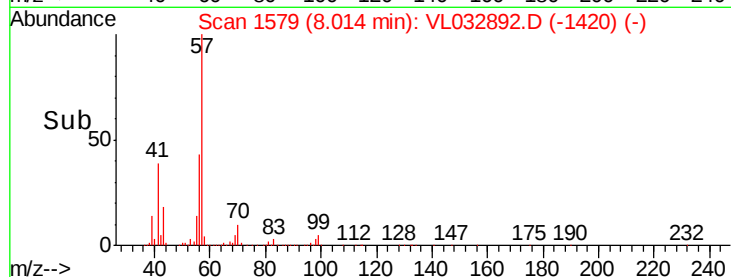
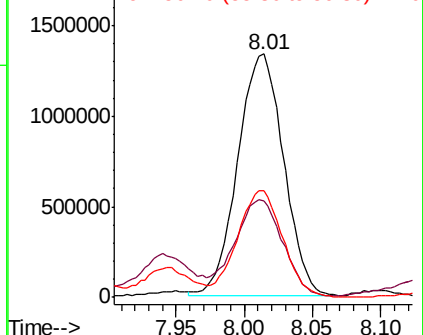
57 100

41 42.4 26.6 39.8#

56 43.6 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



#47

1,1,2-Trichloroethane

Concen: 0.474 ppbv

RT: 9.80 min Scan# 2133

Delta R.T. 0.17 min

Lab File: VL032892.D

Acq: 5 Dec 2018 1:19

Tgt Ion: 97 Resp: 61910

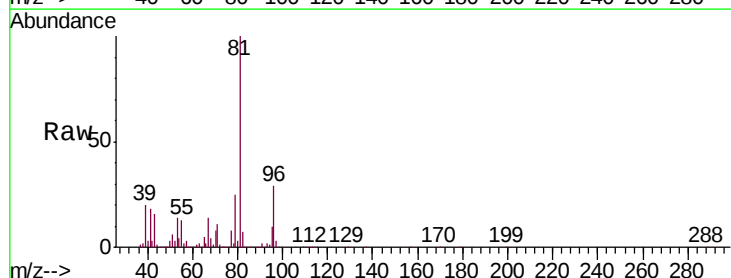
Ion Ratio Lower Upper

97 100

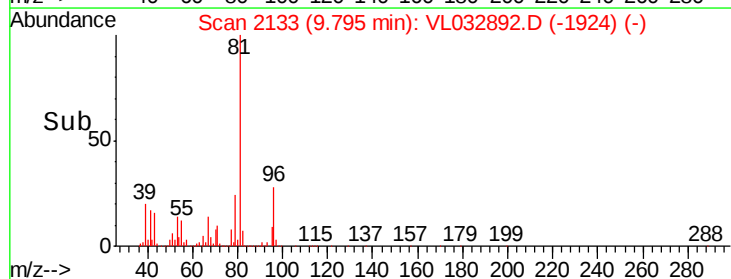
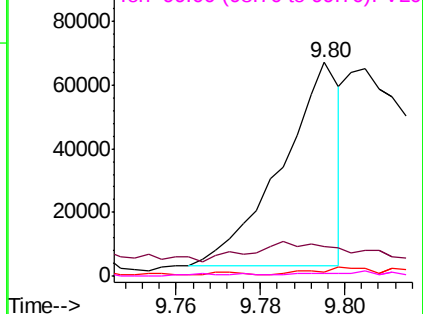
83 5.1 73.0 109.4#

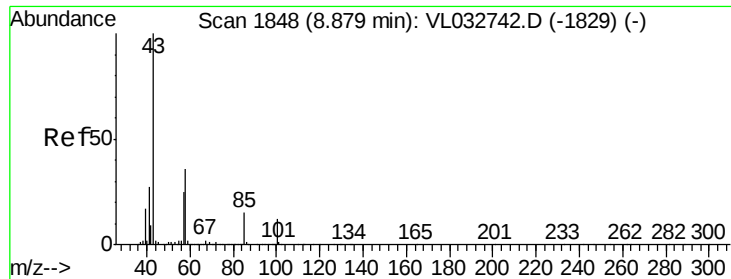
85 1.2 47.0 70.4#

99 0.6 49.9 74.9#



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 99.00 (98.70 to 99.70): VL0

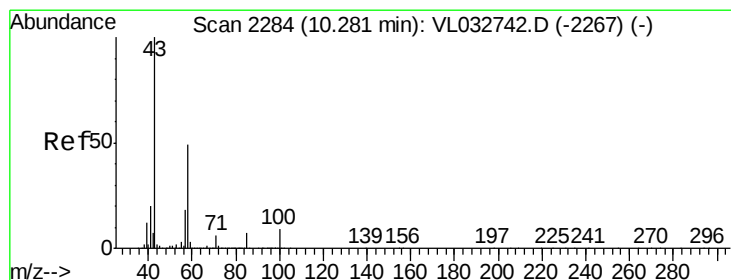
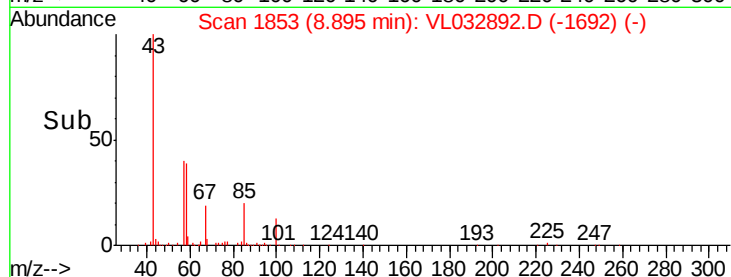
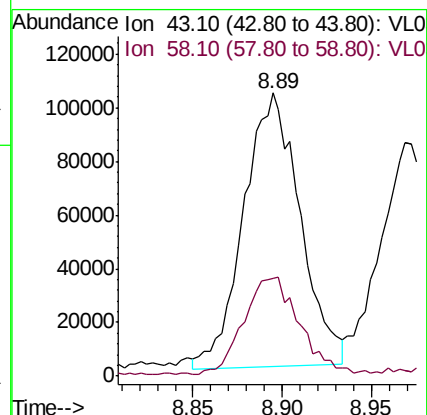
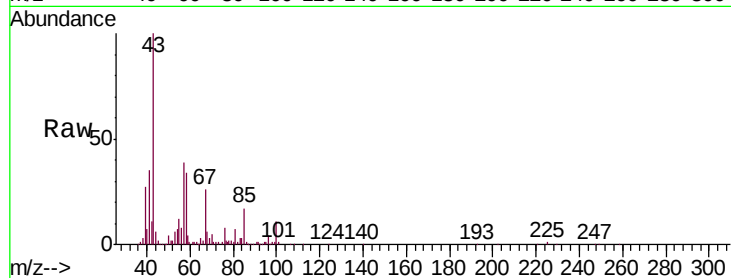




#50
 4-Methyl-2-Pentanone
 Concen: 0.766 ppbv
 RT: 8.89 min Scan# 1853
 Delta R.T. 0.02 min
 Lab File: VL032892.D
 Acq: 5 Dec 2018 1:19

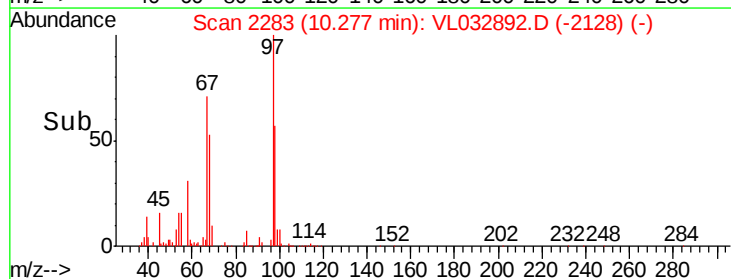
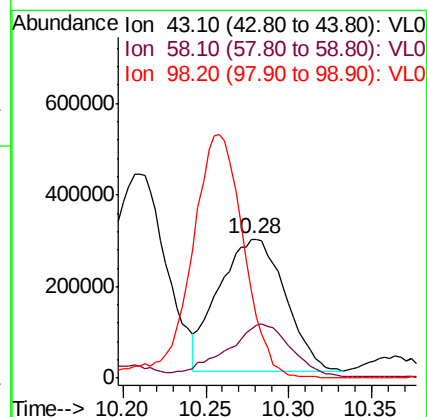
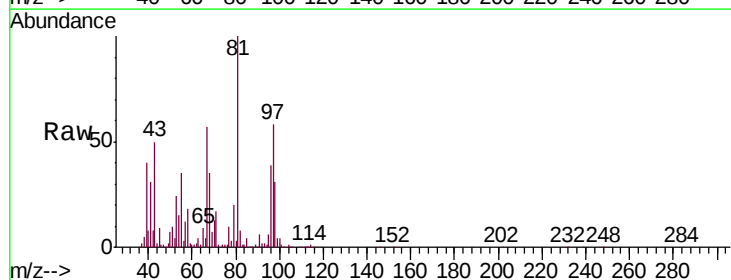
Instrument :
 MSVOA_L
 ClientSampleId :
 MMSV-05

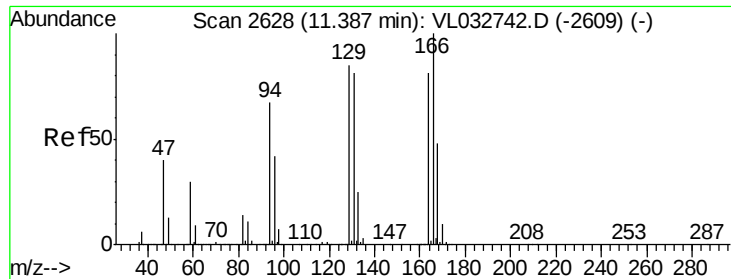
Tgt Ion: 43 Resp: 225573
 Ion Ratio Lower Upper
 43 100
 58 36.6 28.8 43.2



#51
 2-Hexanone
 Concen: 4.292 ppbv
 RT: 10.28 min Scan# 2283
 Delta R.T. -0.00 min
 Lab File: VL032892.D
 Acq: 5 Dec 2018 1:19

Tgt Ion: 43 Resp: 814680
 Ion Ratio Lower Upper
 43 100
 58 40.3 38.9 58.3
 98 145.1 0.2 0.4#





#52

Tetrachloroethene

Concen: 0.127 ppbv

RT: 11.40 min Scan# 2631

Delta R.T. 0.01 min

Lab File: VL032892.D

Acq: 5 Dec 2018 1:19

Instrument :

MSVOA_L

ClientSampleId :

MMSV-05

Tgt Ion:164 Resp: 12806

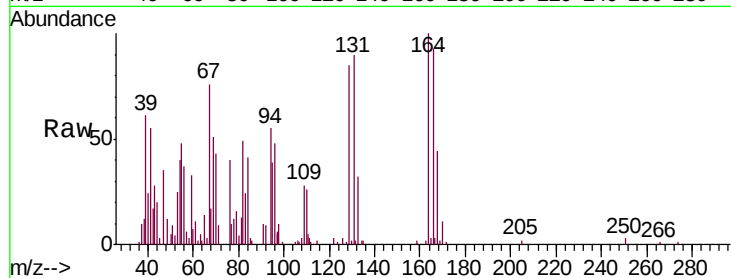
Ion Ratio Lower Upper

164 100

166 90.4 99.3 148.9#

129 80.7 83.9 125.9#

131 90.3 80.8 121.2

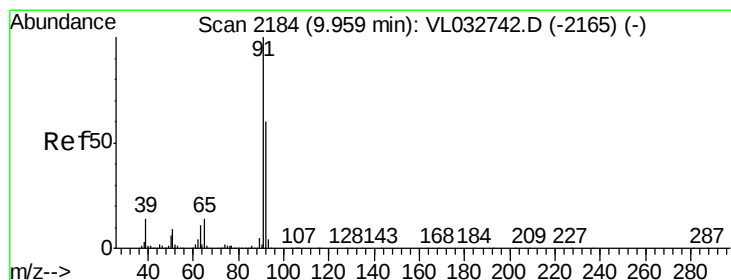
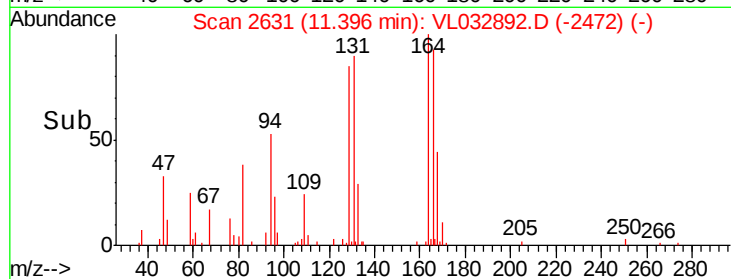
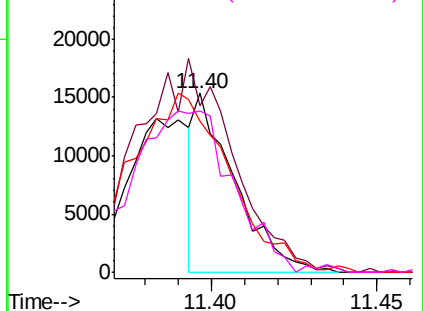


Abundance Ion 163.90 (163.60 to 164.60): V

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



#53

Toluene

Concen: 0.327 ppbv

RT: 9.80 min Scan# 2135

Delta R.T. -0.16 min

Lab File: VL032892.D

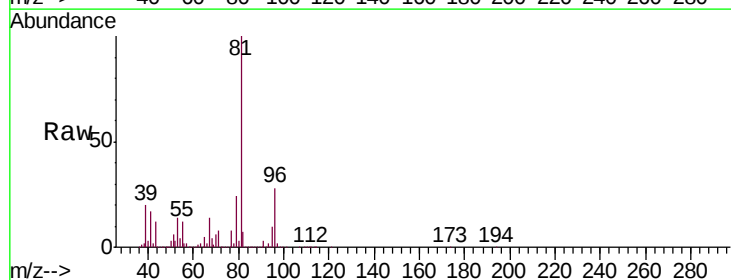
Acq: 5 Dec 2018 1:19

Tgt Ion: 91 Resp: 98887

Ion Ratio Lower Upper

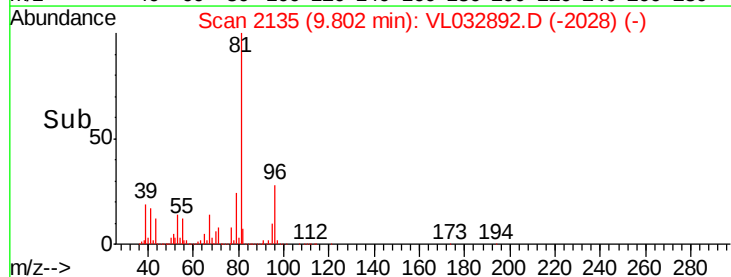
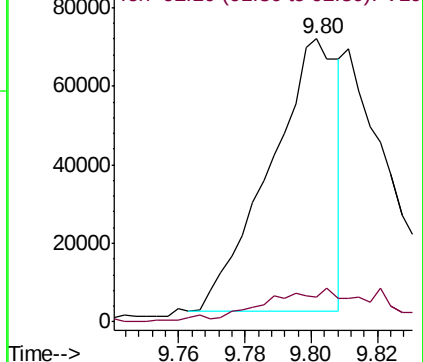
91 100

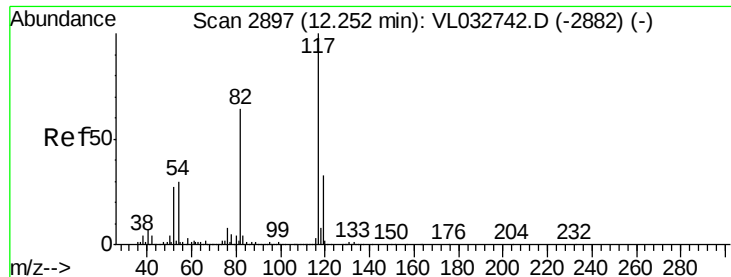
92 28945.3 47.9 71.9#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

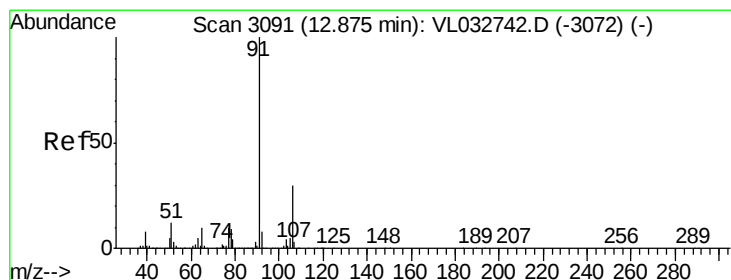
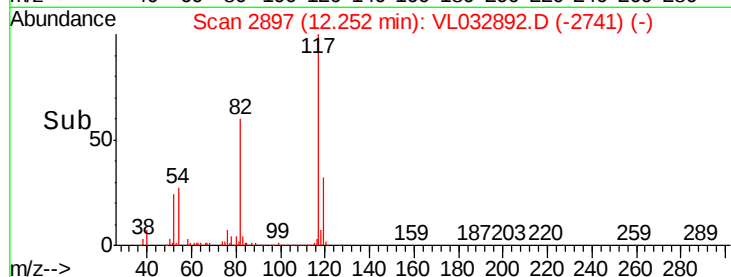
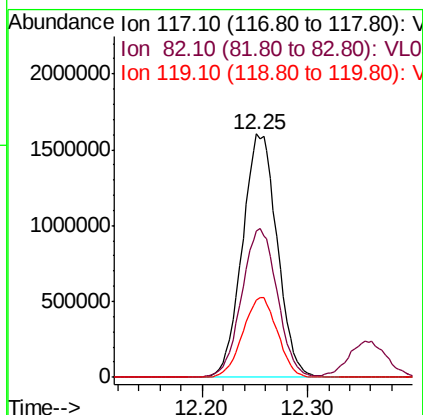
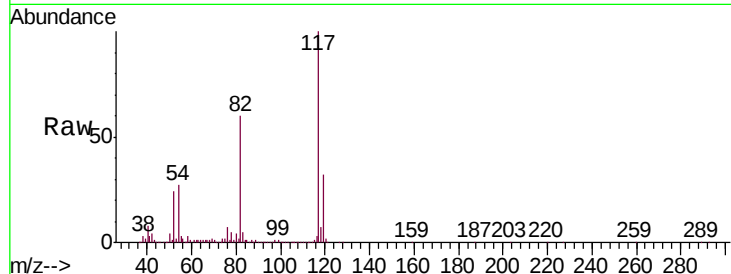




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2897
Delta R.T. 0.00 min
Lab File: VL032892.D
Acq: 5 Dec 2018 1:19

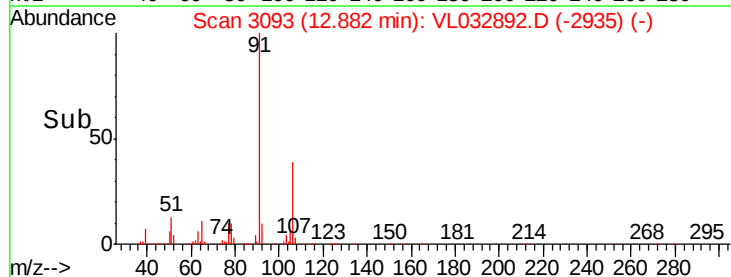
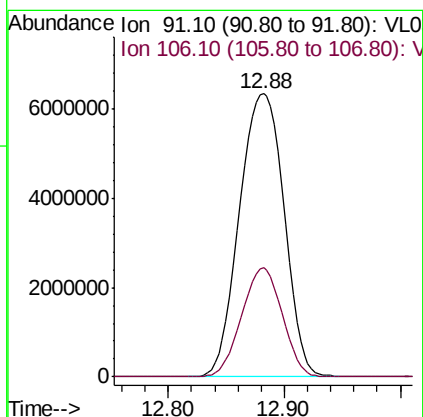
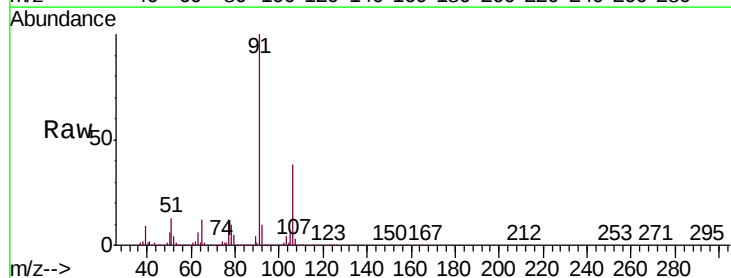
Instrument :
MSVOA_L
ClientSampleId :
MMSV-05

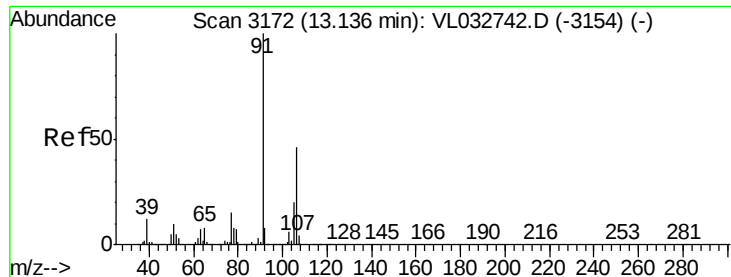
Tgt Ion: 117 Resp: 3690410
Ion Ratio Lower Upper
117 100
82 61.9 51.0 76.6
119 32.7 28.0 42.0



#58
Ethyl Benzene
Concen: 38.169 ppbv
RT: 12.88 min Scan# 3093
Delta R.T. 0.01 min
Lab File: VL032892.D
Acq: 5 Dec 2018 1:19

Tgt Ion: 91 Resp: 16952311
Ion Ratio Lower Upper
91 100
106 38.5 23.6 35.4#

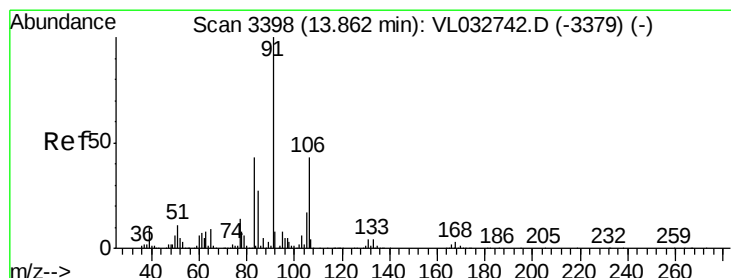
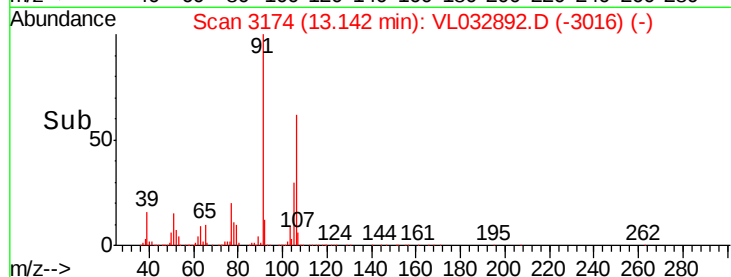
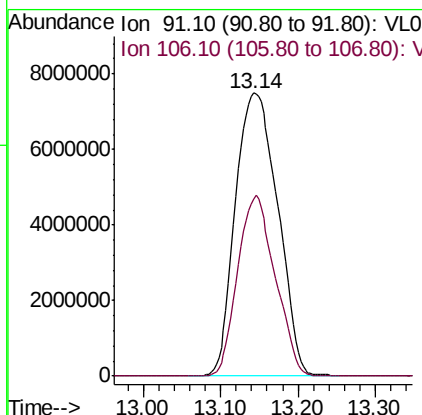
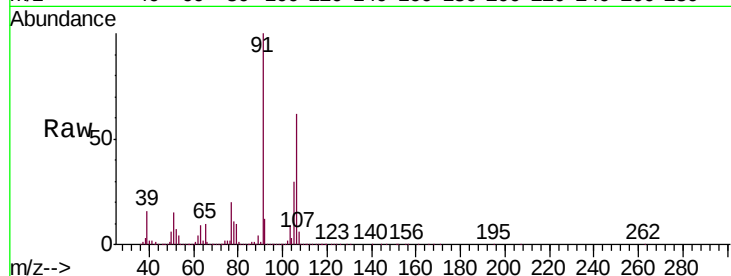




#59
m/p-Xylene
Concen: 72.059 ppbv
RT: 13.14 min Scan# 3174
Delta R.T. 0.01 min
Lab File: VL032892.D
Acq: 5 Dec 2018 1:19

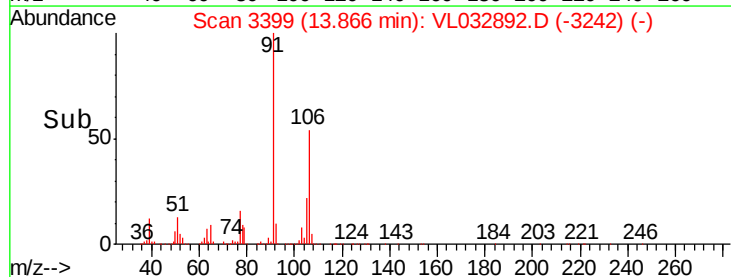
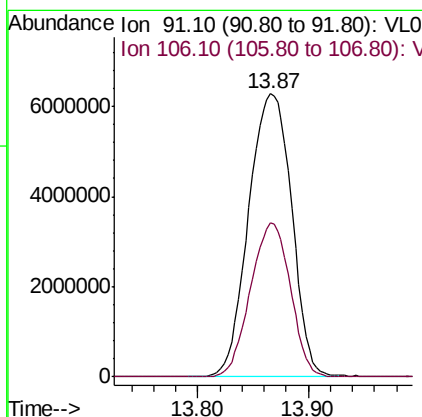
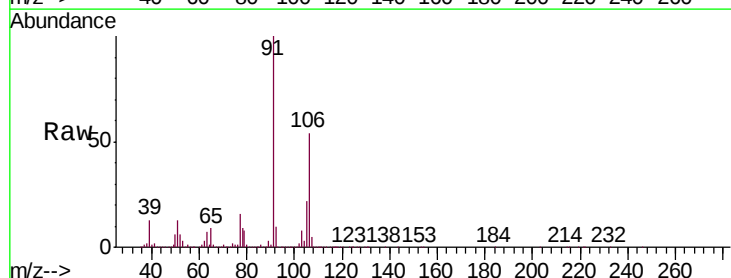
Instrument :
MSVOA_L
ClientSampleId :
MMSV-05

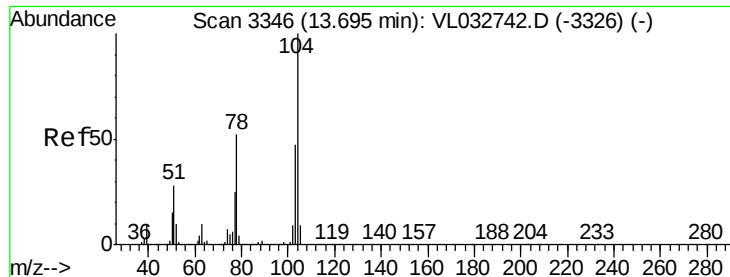
Tgt Ion: 91 Resp:28490267
Ion Ratio Lower Upper
91 100
106 56.6 36.1 54.1#



#60
o-Xylene
Concen: 42.569 ppbv
RT: 13.87 min Scan# 3399
Delta R.T. 0.00 min
Lab File: VL032892.D
Acq: 5 Dec 2018 1:19

Tgt Ion: 91 Resp:16922980
Ion Ratio Lower Upper
91 100
106 50.8 21.9 65.7





#61

Styrene

Concen: 2.727 ppbv

RT: 13.70 min Scan# 3347

Delta R.T. 0.00 min

Lab File: VL032892.D

Acq: 5 Dec 2018 1:19

Instrument :

MSVOA_L

ClientSampleId :

MMSV-05

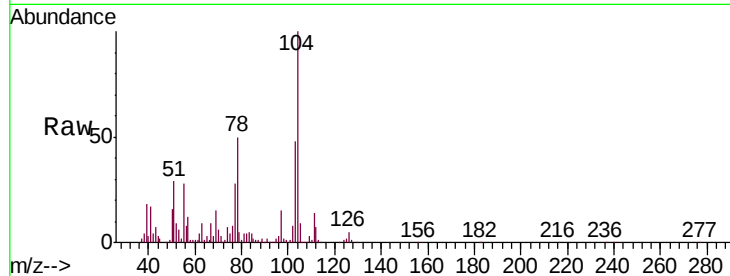
Tgt Ion:104 Resp: 705734

Ion Ratio Lower Upper

104 100

78 58.2 42.2 63.4

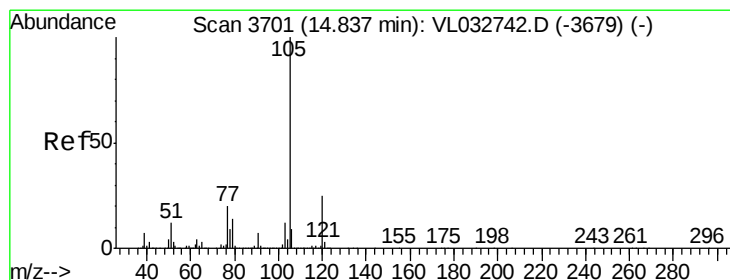
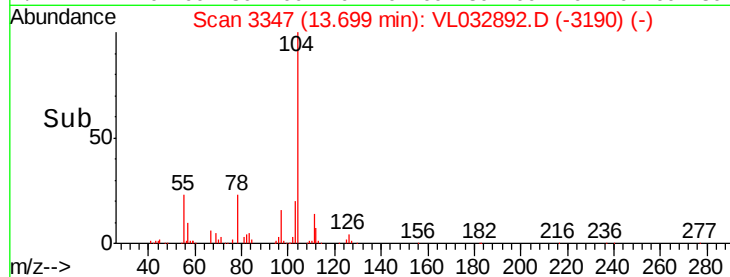
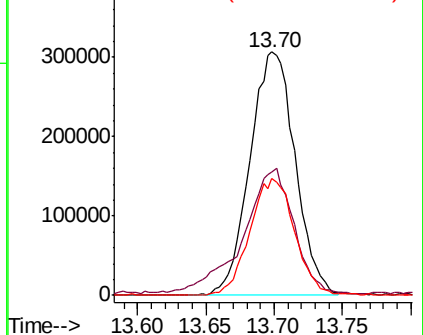
103 47.3 38.2 57.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 4.534 ppbv

RT: 14.84 min Scan# 3701

Delta R.T. 0.00 min

Lab File: VL032892.D

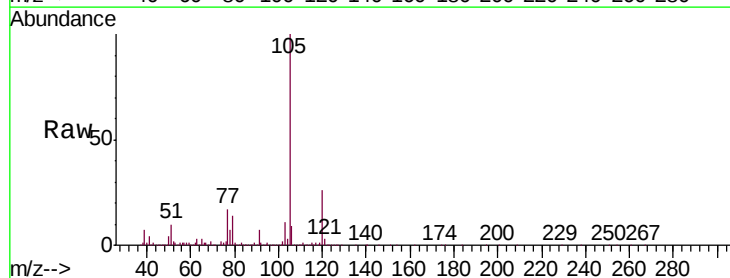
Acq: 5 Dec 2018 1:19

Tgt Ion:105 Resp: 2436595

Ion Ratio Lower Upper

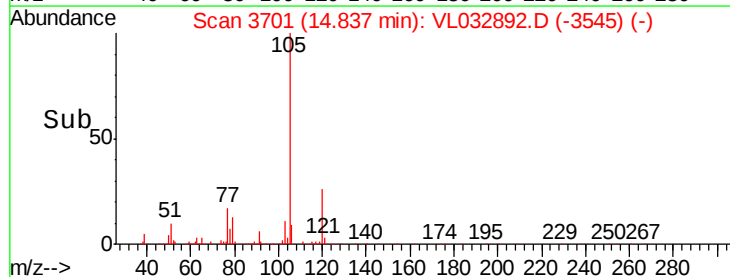
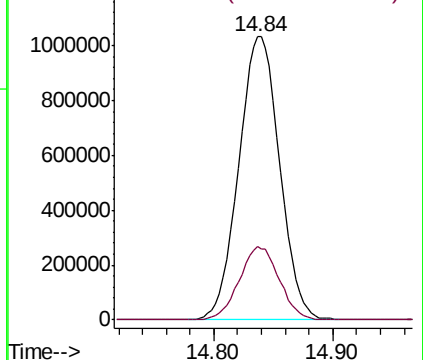
105 100

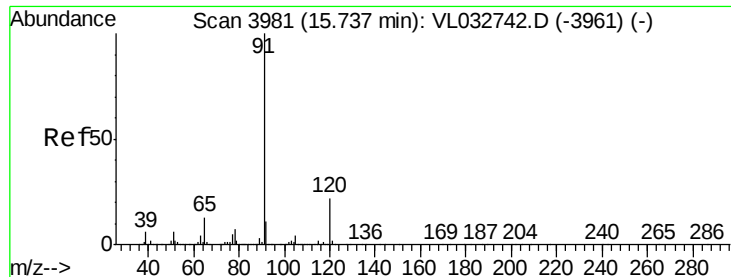
120 25.6 20.1 30.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#64

n-propylbenzene

Concen: 1.870 ppbv

RT: 15.73 min Scan# 3980

Delta R.T. -0.00 min

Lab File: VL032892.D

Acq: 5 Dec 2018 1:19

Instrument :

MSVOA_L

ClientSampleId :

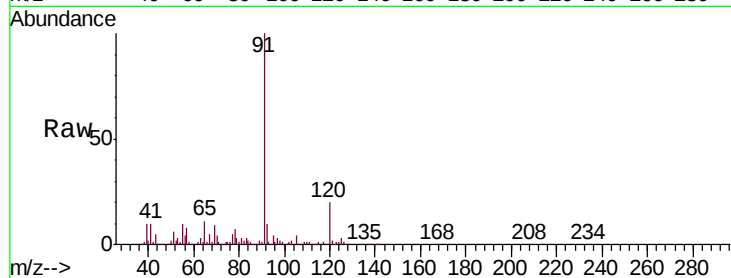
MMSV-05

Tgt Ion:120 Resp: 264337

Ion Ratio Lower Upper

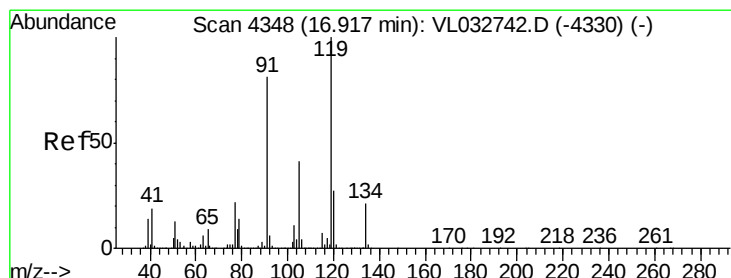
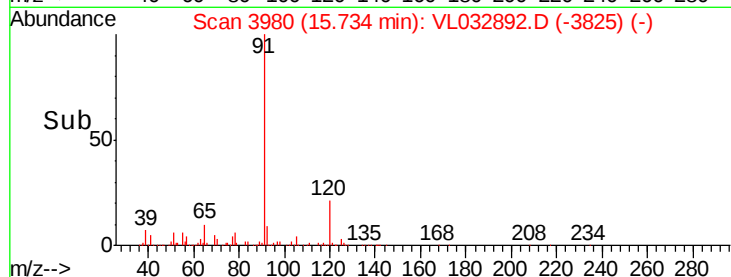
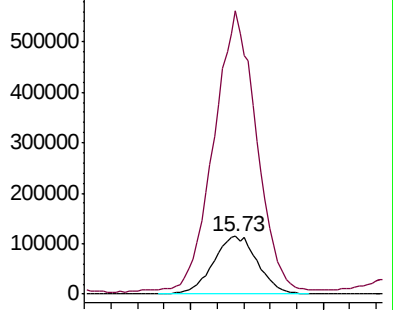
120 100

91 475.0 381.7 572.5



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.554 ppbv

RT: 16.93 min Scan# 4353

Delta R.T. 0.02 min

Lab File: VL032892.D

Acq: 5 Dec 2018 1:19

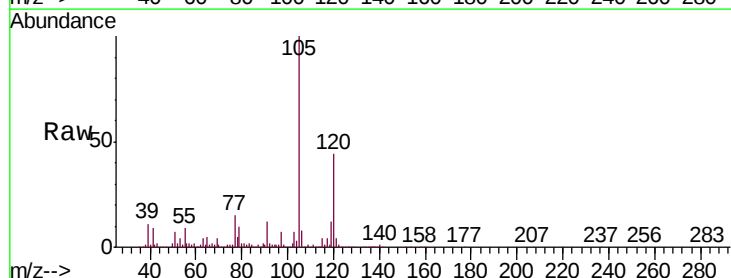
Tgt Ion:119 Resp: 266712

Ion Ratio Lower Upper

119 100

91 103.7 65.6 98.4#

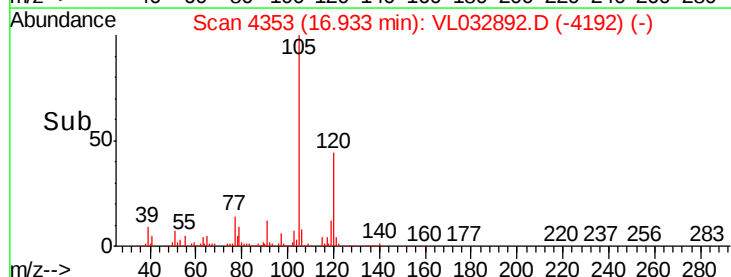
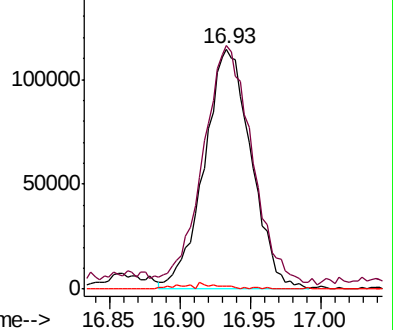
134 1.4 15.9 23.9#

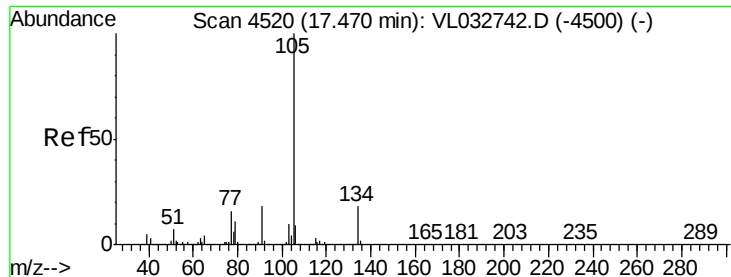


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

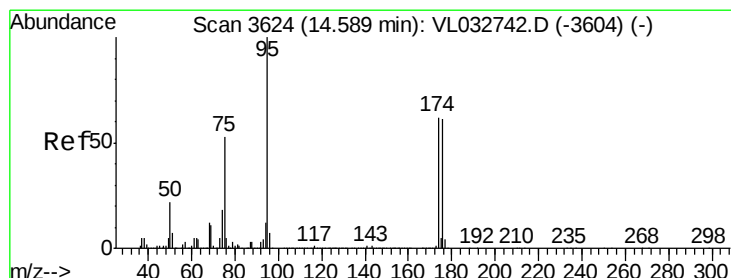
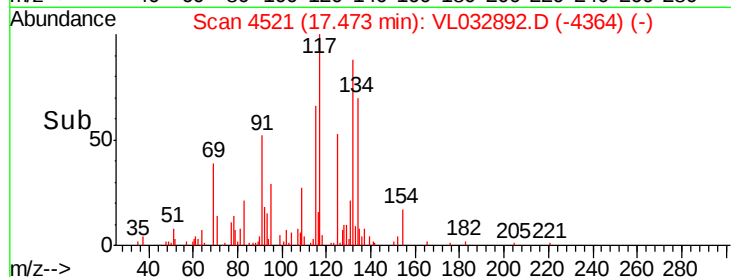
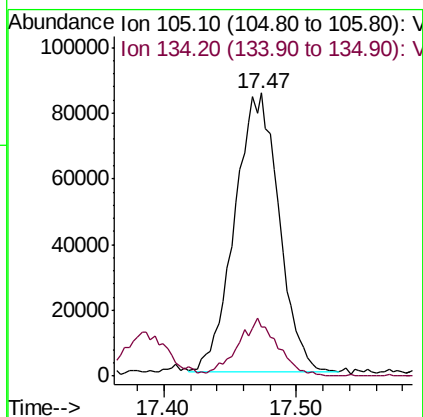
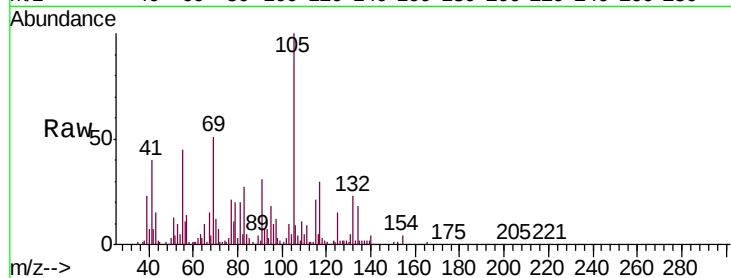




#67
 sec-Butylbenzene
 Concen: 0.282 ppbv
 RT: 17.47 min Scan# 4521
 Delta R.T. 0.00 min
 Lab File: VL032892.D
 Acq: 5 Dec 2018 1:19

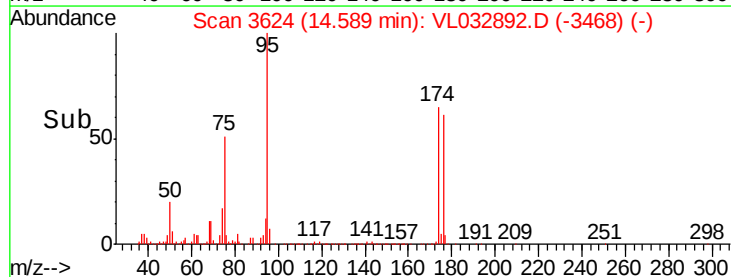
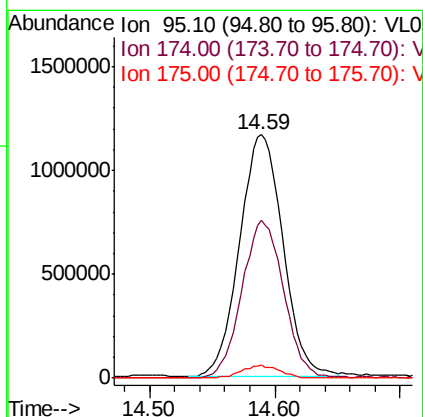
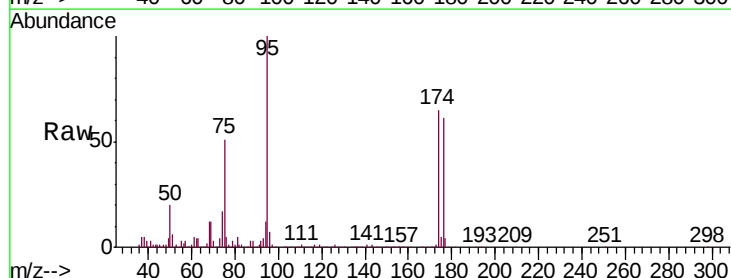
Instrument :
 MSVOA_L
 ClientSampleId :
 MMSV-05

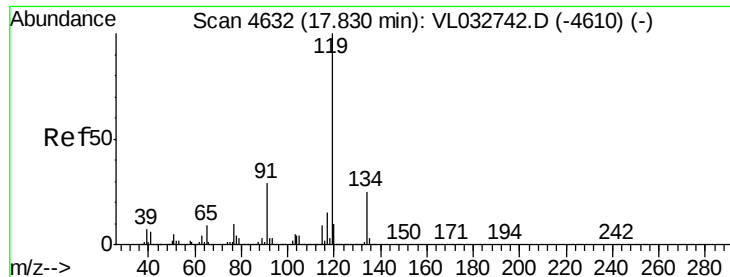
Tgt Ion: 105 Resp: 196041
 Ion Ratio Lower Upper
 105 100
 134 18.7 14.6 21.8



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.197 ppbv
 RT: 14.59 min Scan# 3624
 Delta R.T. 0.00 min
 Lab File: VL032892.D
 Acq: 5 Dec 2018 1:19

Tgt Ion: 95 Resp: 2814669
 Ion Ratio Lower Upper
 95 100
 174 63.3 50.7 76.1
 175 4.7 3.8 5.6

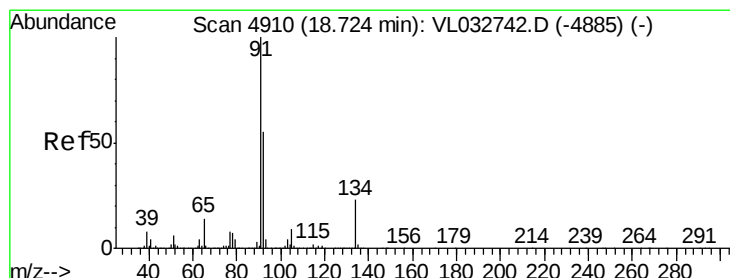
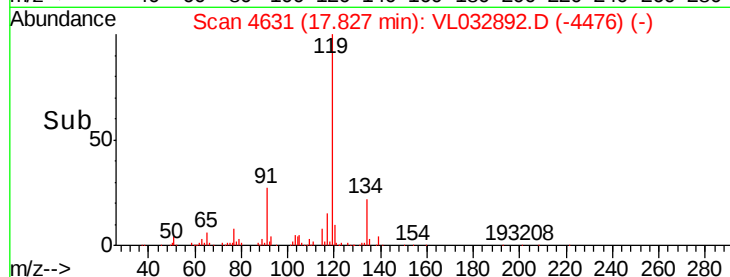
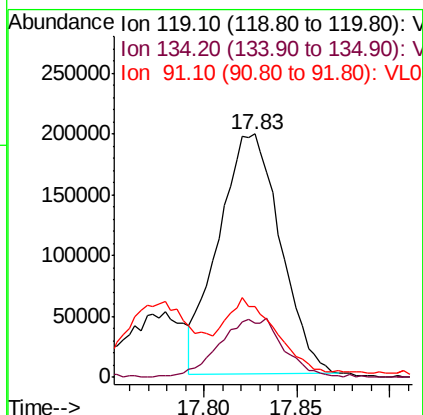
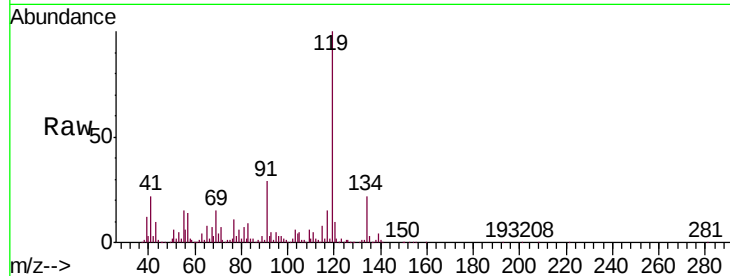




#69
p-Isopropyltoluene
Concen: 0.832 ppbv
RT: 17.83 min Scan# 4631
Delta R.T. -0.00 min
Lab File: VL032892.D
Acq: 5 Dec 2018 1:19

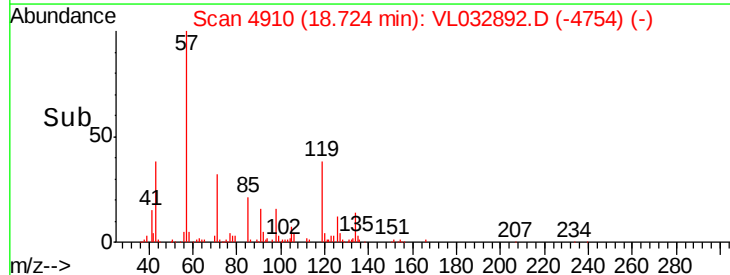
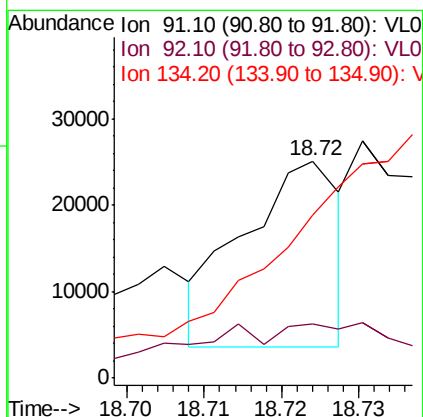
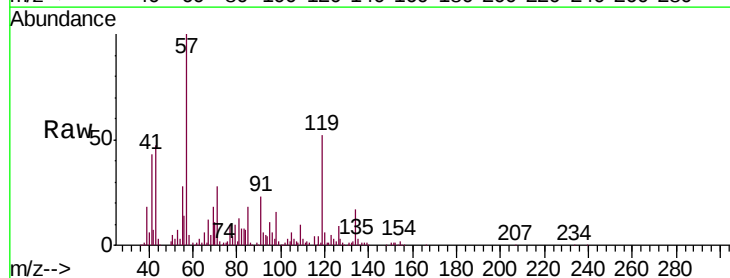
Instrument :
MSVOA_L
ClientSampleId :
MMSV-05

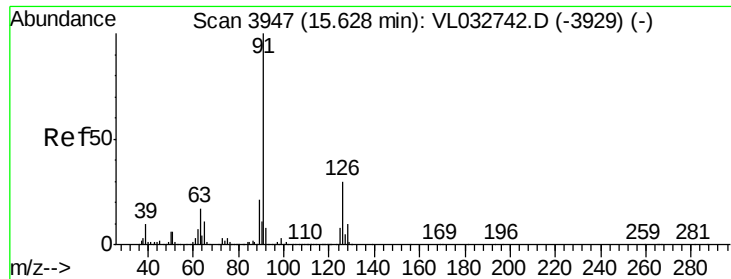
Tgt Ion: 119 Resp: 459138
Ion Ratio Lower Upper
119 100
134 25.6 20.2 30.4
91 27.0 23.5 35.3



#70
n-Butylbenzene
Concen: 0.033 ppbv
RT: 18.72 min Scan# 4910
Delta R.T. 0.00 min
Lab File: VL032892.D
Acq: 5 Dec 2018 1:19

Tgt Ion: 91 Resp: 18698
Ion Ratio Lower Upper
91 100
92 0.0 42.9 64.3#
134 0.0 17.8 26.8#

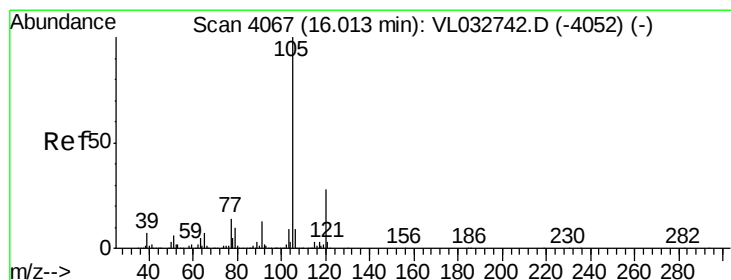
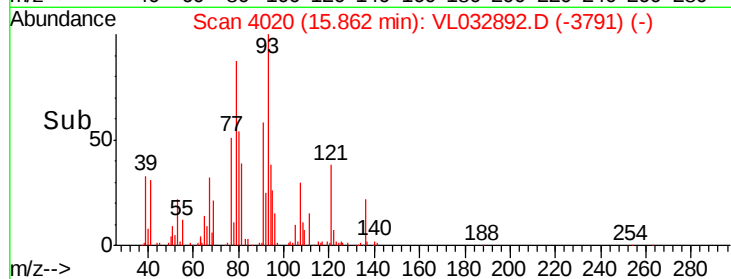
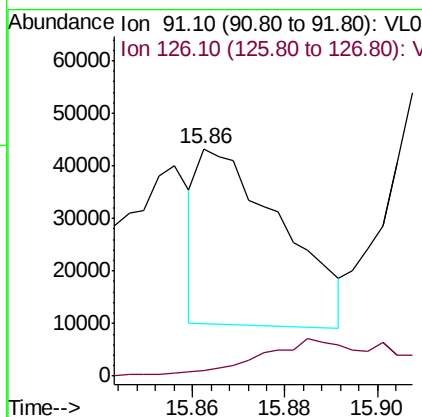
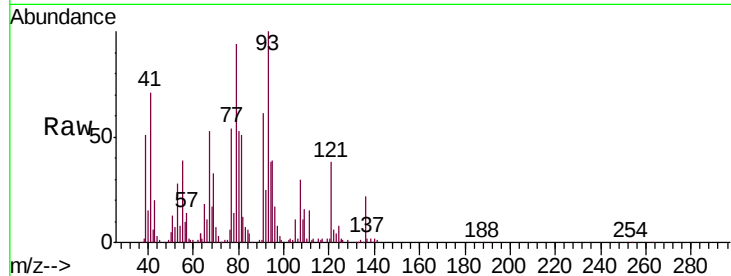




#71
 2-Chlorotoluene
 Concen: 0.104 ppbv
 RT: 15.86 min Scan# 4020
 Delta R.T. 0.23 min
 Lab File: VL032892.D
 Acq: 5 Dec 2018 1:19

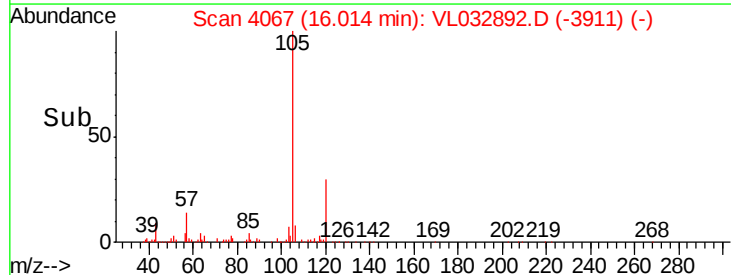
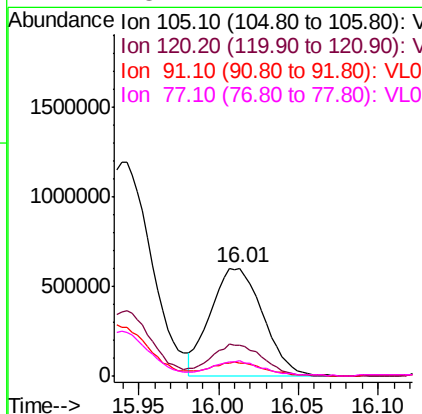
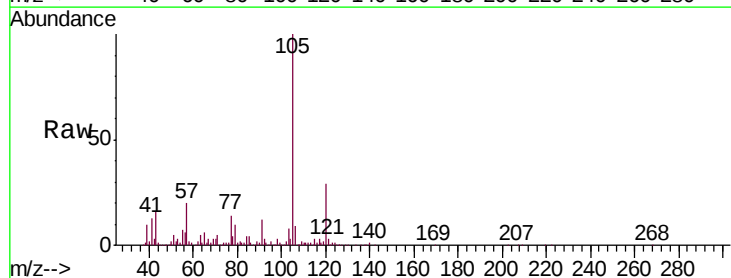
Instrument :
 MSVOA_L
 ClientSampleId :
 MMSV-05

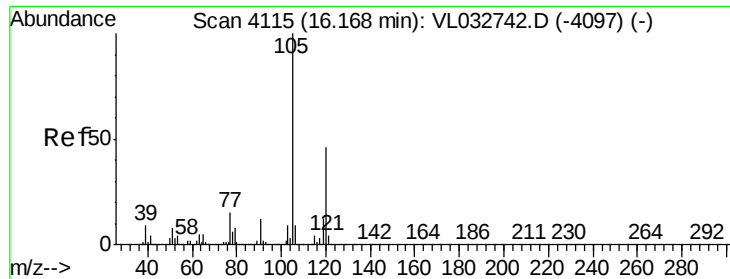
Tgt Ion: 91 Resp: 41740
 Ion Ratio Lower Upper
 91 100
 126 44.0 12.1 48.5



#72
 4-Ethyltoluene
 Concen: 3.100 ppbv
 RT: 16.01 min Scan# 4067
 Delta R.T. 0.00 min
 Lab File: VL032892.D
 Acq: 5 Dec 2018 1:19

Tgt Ion: 105 Resp: 1350918
 Ion Ratio Lower Upper
 105 100
 120 29.7 22.9 34.3
 91 12.8 10.6 15.8
 77 13.4 11.4 17.2

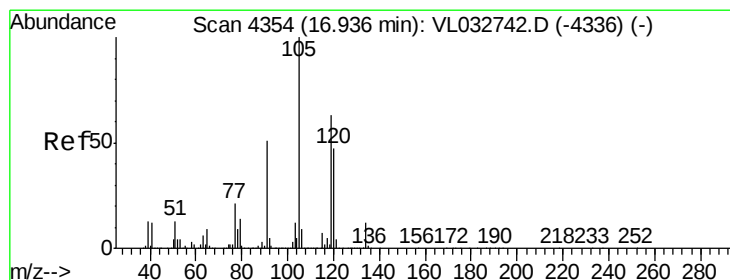
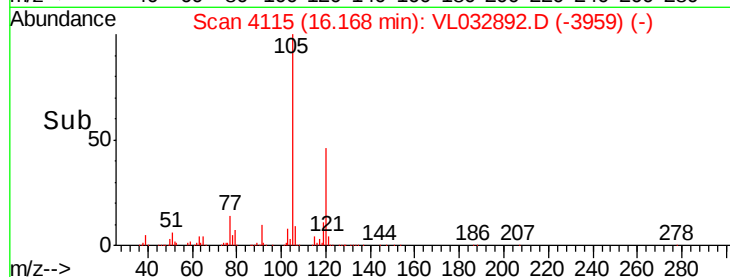
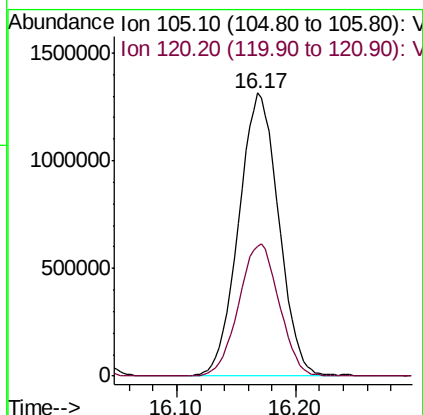
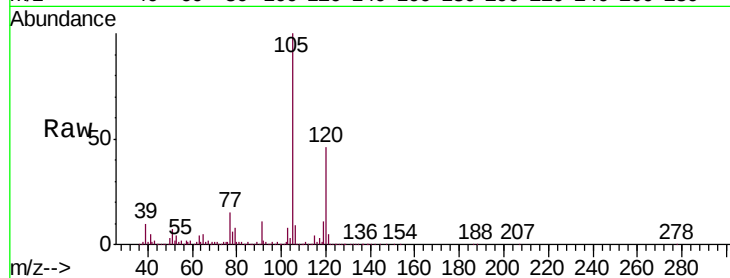




#73
 1,3,5-Trimethylbenzene
 Concen: 7.123 ppbv
 RT: 16.17 min Scan# 4115
 Delta R.T. 0.00 min
 Lab File: VL032892.D
 Acq: 5 Dec 2018 1:19

Instrument :
 MSVOA_L
 ClientSampleId :
 MMSV-05

Tgt Ion:105 Resp: 3034694
 Ion Ratio Lower Upper
 105 100
 120 45.9 36.6 55.0



#74
 1,2,4-Trimethylbenzene
 Concen: 4.864 ppbv
 RT: 16.93 min Scan# 4353
 Delta R.T. -0.00 min
 Lab File: VL032892.D
 Acq: 5 Dec 2018 1:19

Tgt Ion:105 Resp: 2217597
 Ion Ratio Lower Upper
 105 100
 120 43.6 37.6 56.4
 91 12.1 42.5 63.7#
 77 14.5 17.4 26.2#

