

Data File : VL032880.D
Acq On : 4 Dec 2018 17:25
Operator : SY/AP
Sample : J6175-02DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
MMSV-02DL

Quant Time: Dec 05 05:48:10 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1527541	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3788257	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3858038	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.58 95 2790836 9.67 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 96.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	11051	0.050	ppbv	92
3) Chlorodifluoromethane	3.02	51	6432	0.053	ppbv #	85
9) Propene	3.04	41	153829	3.174	ppbv	94
13) Ethanol	3.66	45	10129	0.638	ppbv #	39
15) Acetone	3.91	43	320966	2.301	ppbv #	83
16) 1,3-Butadiene	3.35	39	138269	2.559	ppbv #	17
20) Methylene Chloride	4.41	84	49636	0.687	ppbv	94
23) Vinyl Acetate	5.19	43	20478	0.081	ppbv #	47
25) Ethyl Acetate	5.78	43	29335	0.090	ppbv #	85
26) Hexane	5.79	57	40019	0.277	ppbv #	10
27) Carbon Disulfide	4.63	76	99680	0.543	ppbv #	84
30) Cyclohexane	7.26	84	11172	0.088	ppbv #	1
34) 2-Butanone	5.34	43	1291903	6.575	ppbv	100
36) Benzene	7.01	78	1548840	5.134	ppbv	99
39) 1,2-Dichloropropane	7.30	63	888735	7.732	ppbv #	23
51) 2-Hexanone	10.30	43	83386	0.422	ppbv #	100
53) Toluene	9.95	91	1213686	3.857	ppbv	99
58) Ethyl Benzene	12.87	91	154772	0.333	ppbv	94
59) m/p-Xylene	13.12	91	496803	1.202	ppbv	99
60) o-Xylene	13.85	91	446440	1.074	ppbv	100
61) Styrene	13.69	104	22391	0.083	ppbv #	48
73) 1,3,5-Trimethylbenzene	16.16	105	40583	0.091	ppbv #	82
74) 1,2,4-Trimethylbenzene	16.93	105	223598	0.469	ppbv #	66
79) Naphthalene	22.42	128	20148	0.064	ppbv #	90

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

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Sample : J6175-02DL 10X

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_L

ClientSampled :

MMSV-02DL

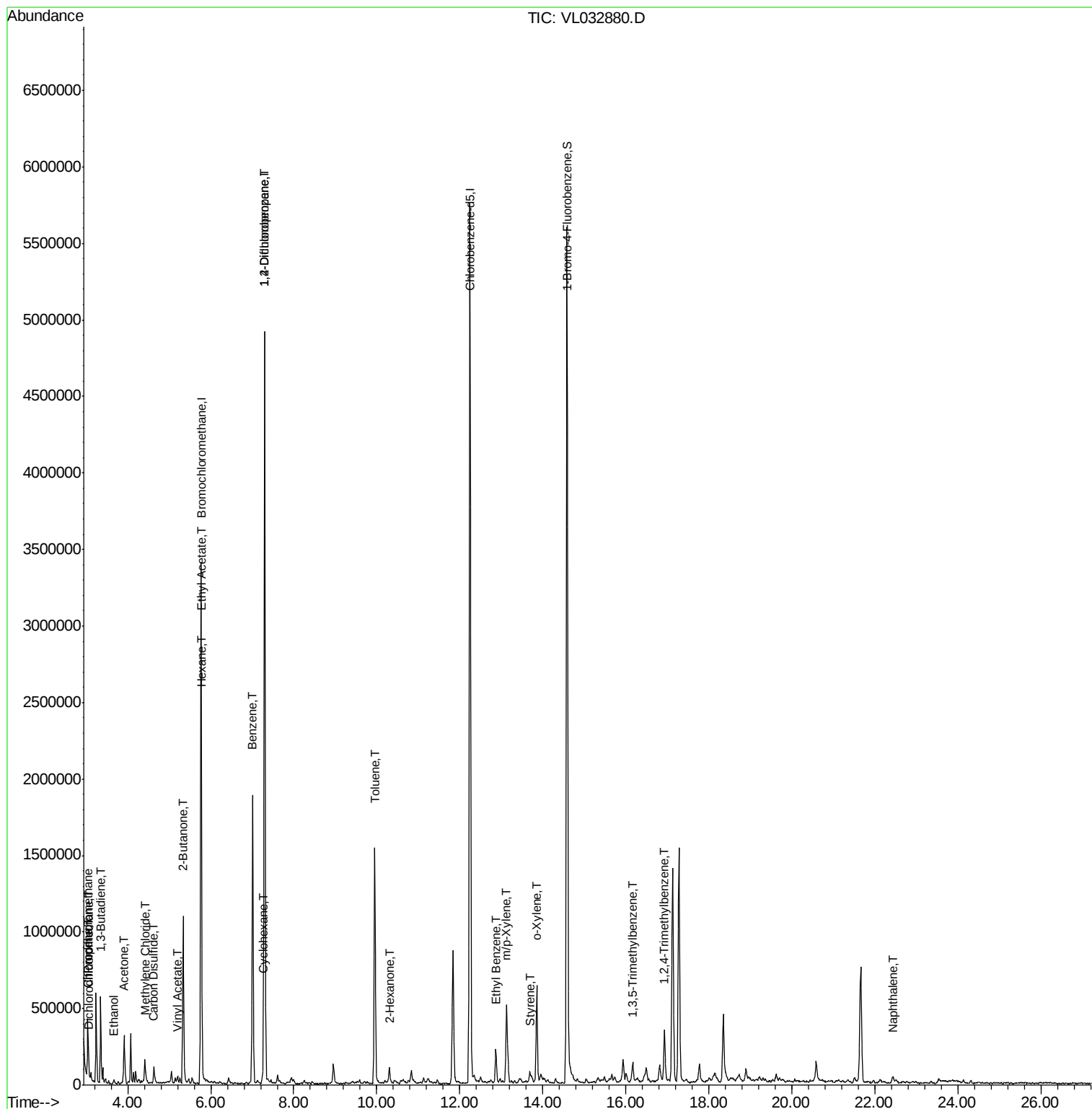
Quant Time: Dec 05 05:48:10 2018

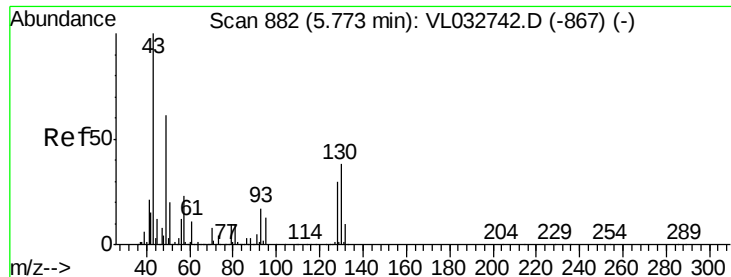
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.01 min

Lab File: VL032880.D

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Instrument :

MSVOA_L

ClientSampleId :

MMSV-02DL

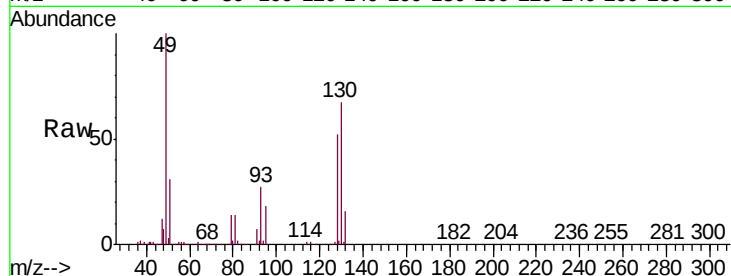
Tgt Ion: 49 Resp: 1527541

Ion Ratio Lower Upper

49 100

128 52.7 24.9 74.6

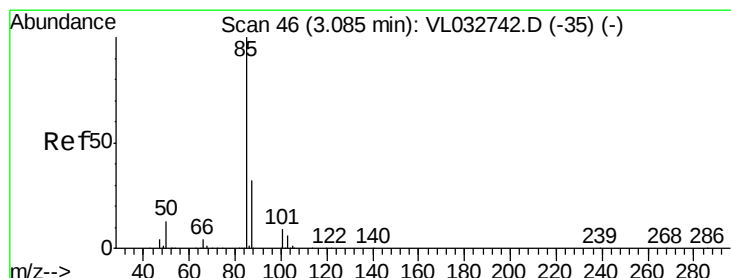
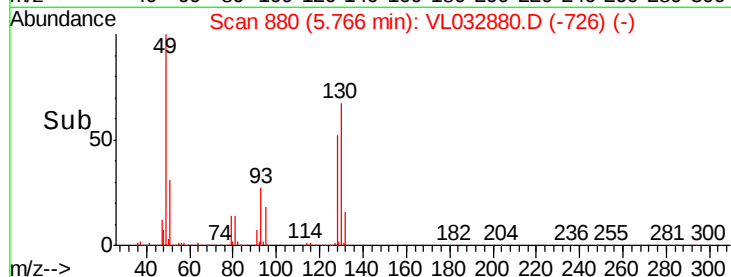
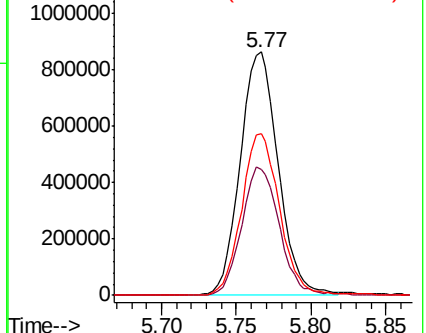
130 67.1 31.4 94.2



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: 0.050 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.01 min

Lab File: VL032880.D

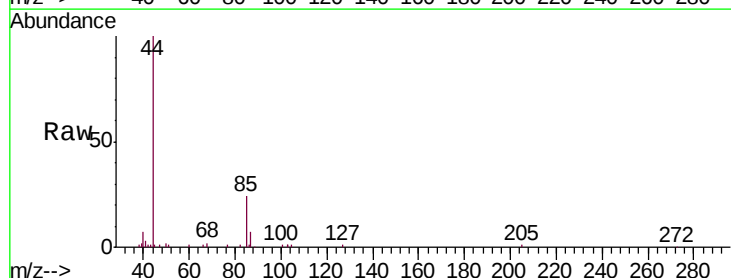
Acq: 4 Dec 2018 17:25

Tgt Ion: 85 Resp: 11051

Ion Ratio Lower Upper

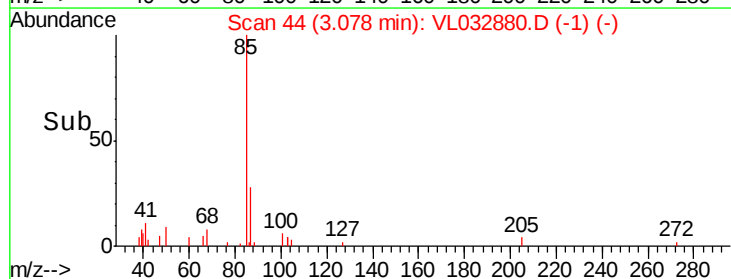
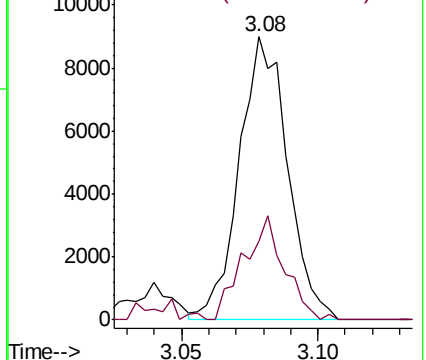
85 100

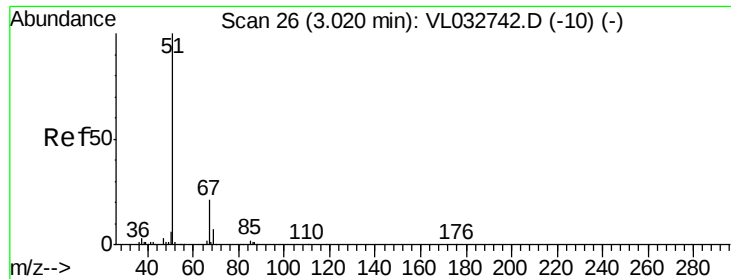
87 27.7 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

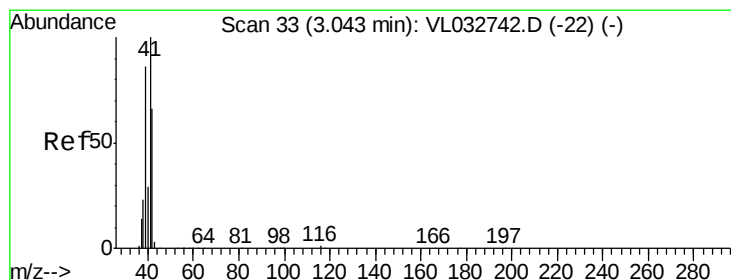
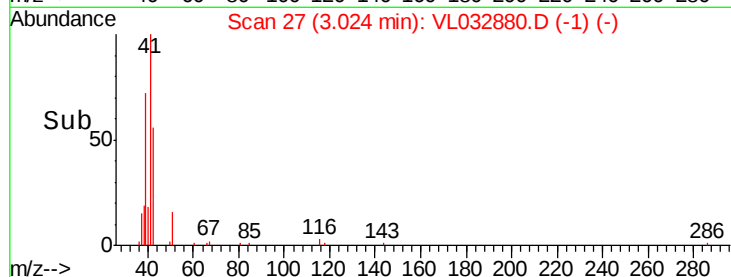
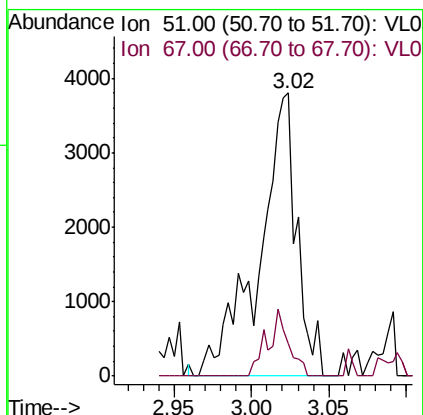
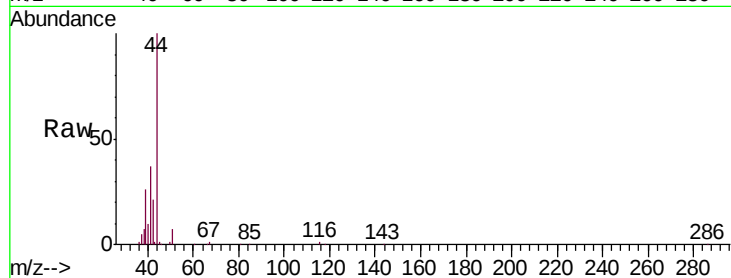




#3
 Chlorodifluoromethane
 Concen: 0.053 ppbv
 RT: 3.02 min Scan# 27
 Delta R.T. 0.00 min
 Lab File: VL032880.D
 Acq: 4 Dec 2018 17:25

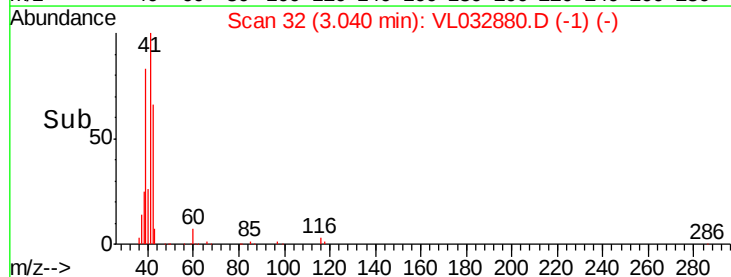
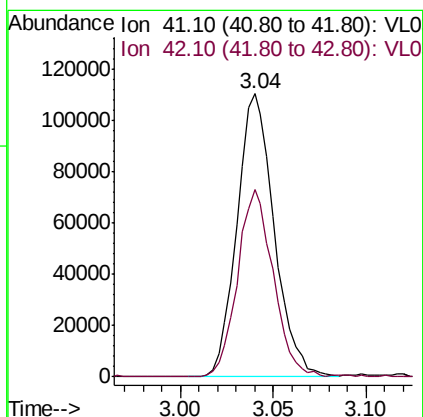
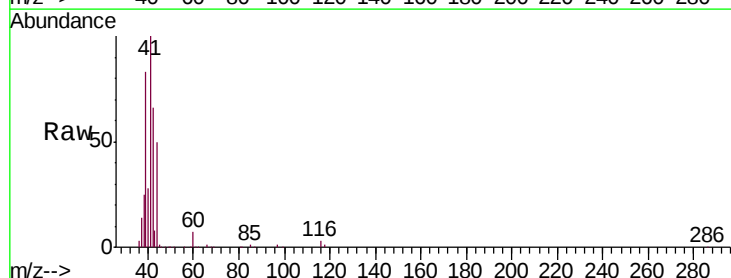
Instrument :
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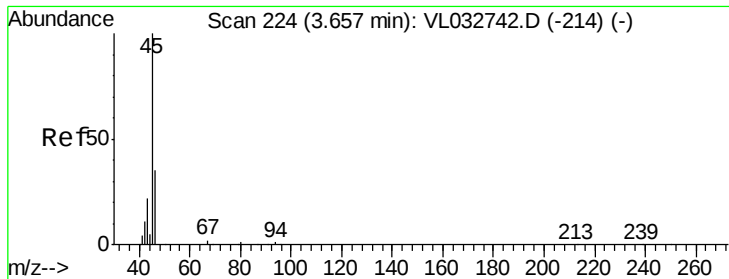
Tgt Ion: 51 Resp: 6432
 Ion Ratio Lower Upper
 51 100
 67 13.3 16.1 24.1#



#9
 Propene
 Concen: 3.174 ppbv
 RT: 3.04 min Scan# 32
 Delta R.T. -0.00 min
 Lab File: VL032880.D
 Acq: 4 Dec 2018 17:25

Tgt Ion: 41 Resp: 153829
 Ion Ratio Lower Upper
 41 100
 42 64.0 55.0 82.6

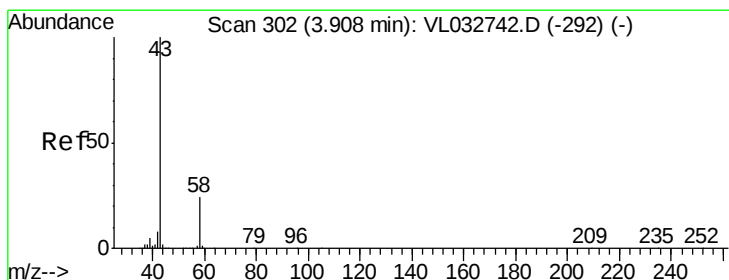
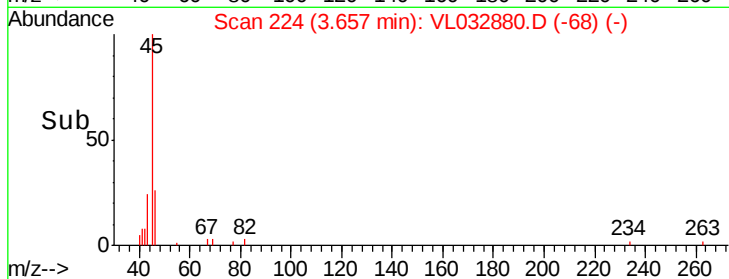
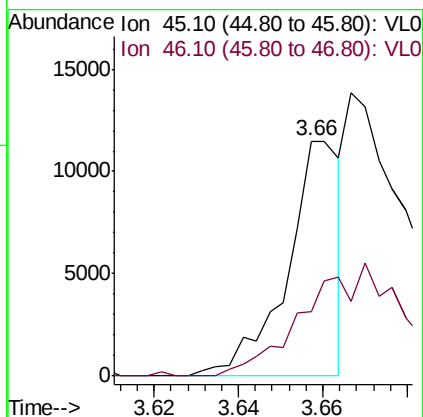
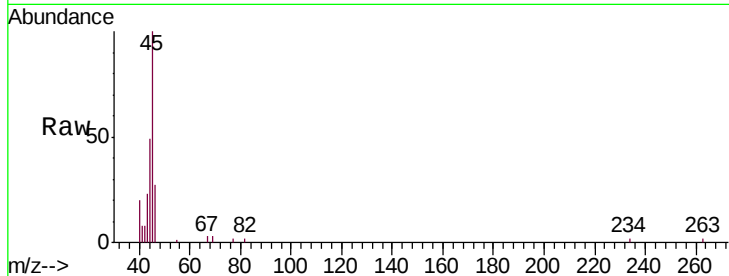




#13
Ethanol
Concen: 0.638 ppbv
RT: 3.66 min Scan# 224
Delta R.T. 0.00 min
Lab File: VL032880.D
Acq: 4 Dec 2018 17:25

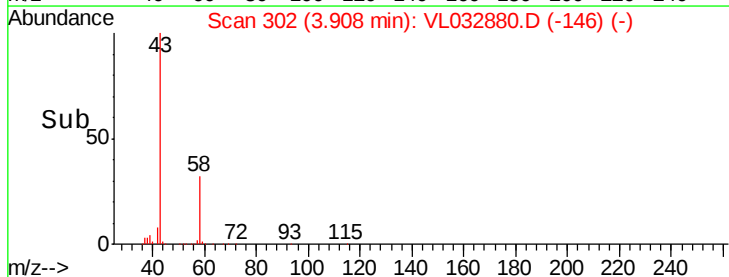
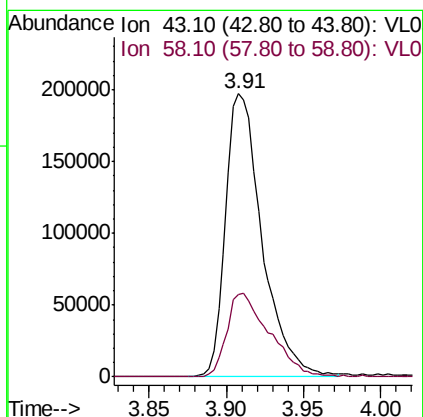
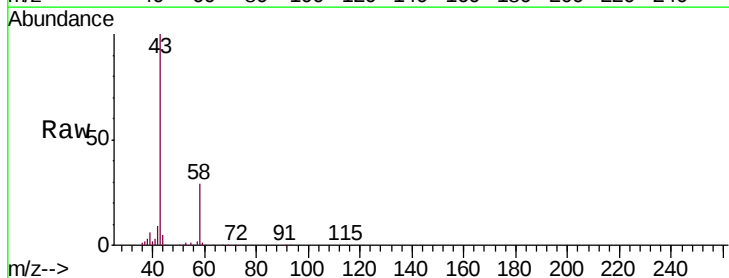
Instrument :
MSVOA_L
ClientSampleId :
MMSV-02DL

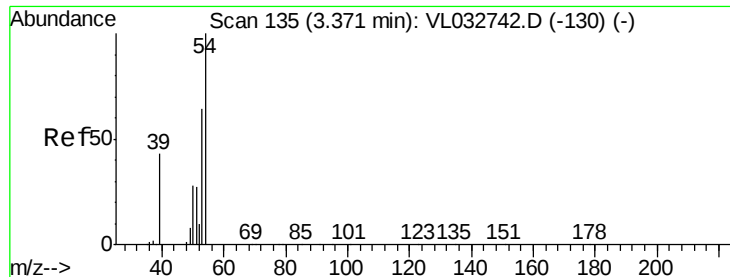
Tgt Ion: 45 Resp: 10129
Ion Ratio Lower Upper
45 100
46 0.0 14.5 57.9#



#15
Acetone
Concen: 2.301 ppbv
RT: 3.91 min Scan# 302
Delta R.T. 0.00 min
Lab File: VL032880.D
Acq: 4 Dec 2018 17:25

Tgt Ion: 43 Resp: 320966
Ion Ratio Lower Upper
43 100
58 34.9 21.1 31.7#

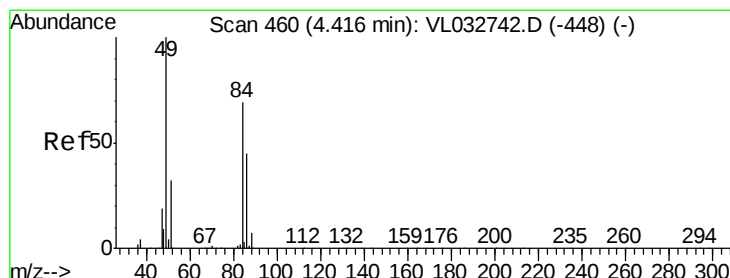
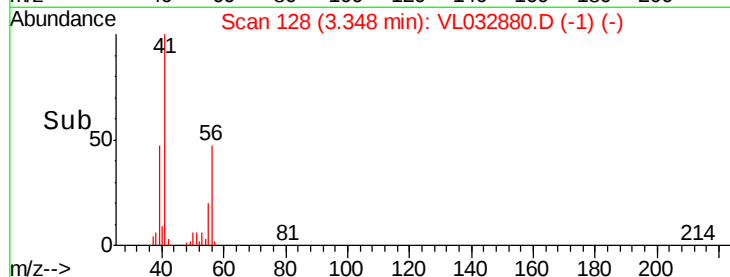
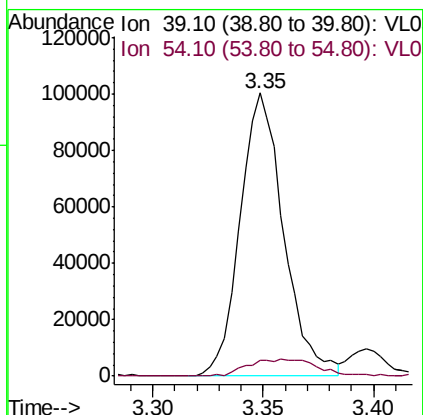
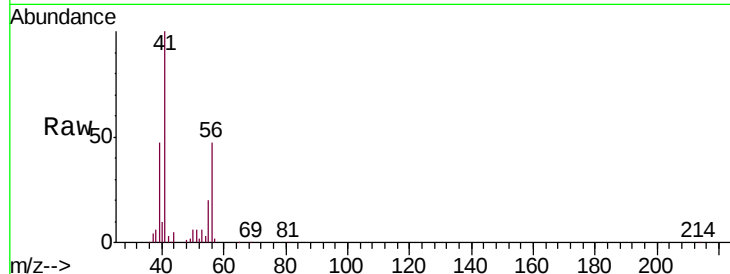




#16
 1,3-Butadiene
 Concen: 2.559 ppbv
 RT: 3.35 min Scan# 128
 Delta R.T. -0.02 min
 Lab File: VL032880.D
 Acq: 4 Dec 2018 17:25

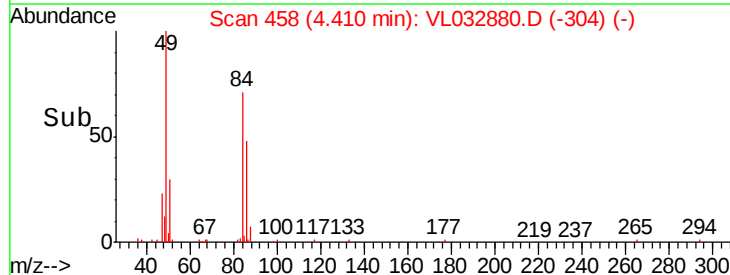
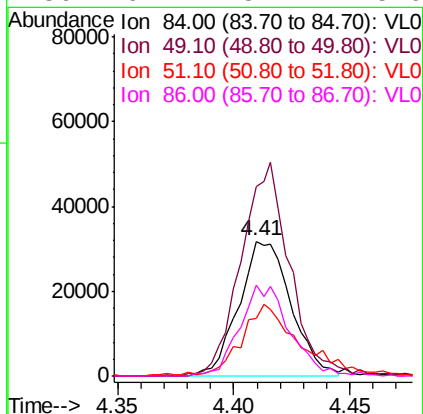
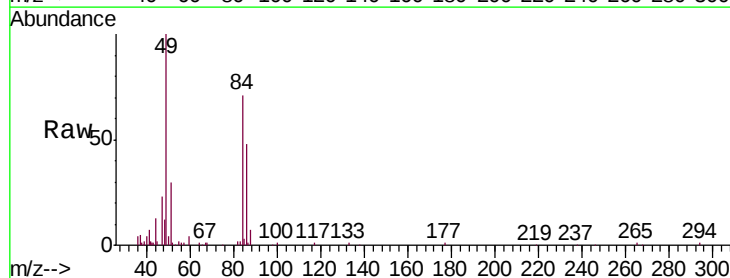
Instrument :
 MSVOA_L
 ClientSampleId :
 MMSV-02DL

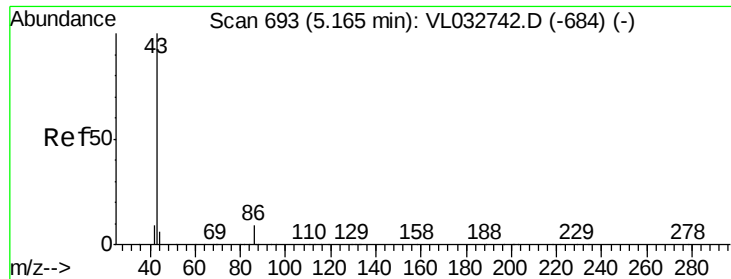
Tgt Ion: 39 Resp: 138269
 Ion Ratio Lower Upper
 39 100
 54 9.7 68.9 103.3#



#20
 Methylene Chloride
 Concen: 0.687 ppbv
 RT: 4.41 min Scan# 458
 Delta R.T. -0.01 min
 Lab File: VL032880.D
 Acq: 4 Dec 2018 17:25

Tgt Ion: 84 Resp: 49636
 Ion Ratio Lower Upper
 84 100
 49 137.1 115.8 173.6
 51 39.3 36.9 55.3
 86 67.2 52.4 78.6

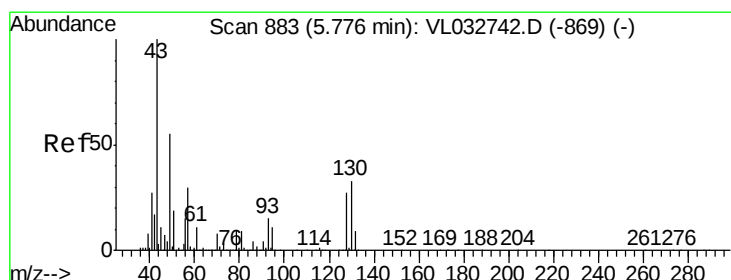
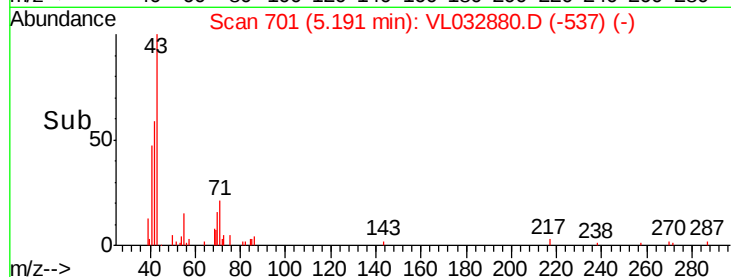
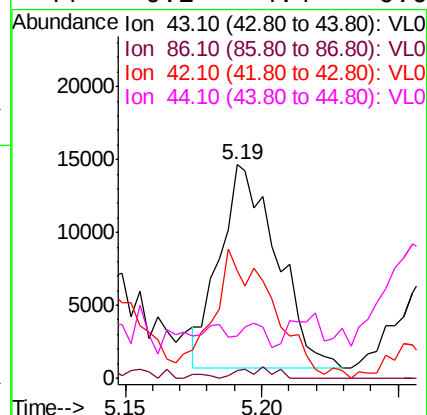
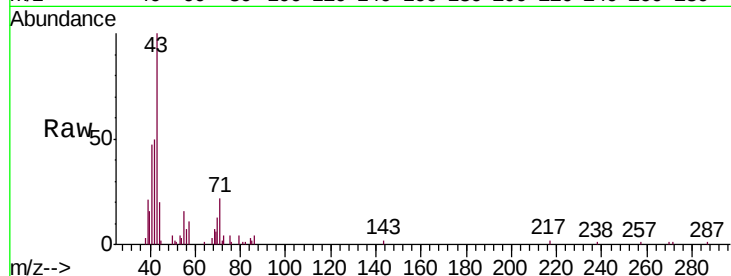




#23
 Vinyl Acetate
 Concen: 0.081 ppbv
 RT: 5.19 min Scan# 701
 Delta R.T. 0.03 min
 Lab File: VL032880.D
 Acq: 4 Dec 2018 17:25

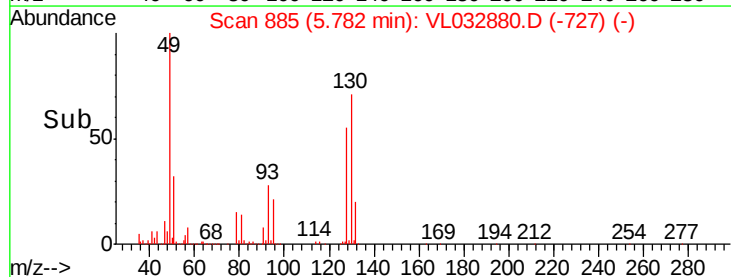
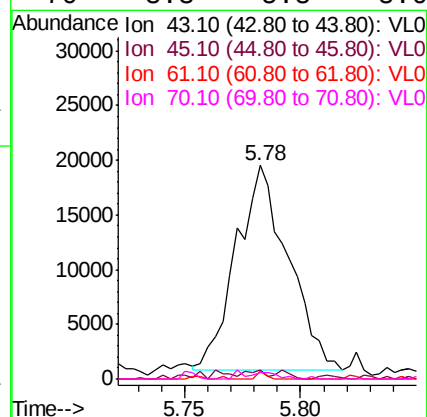
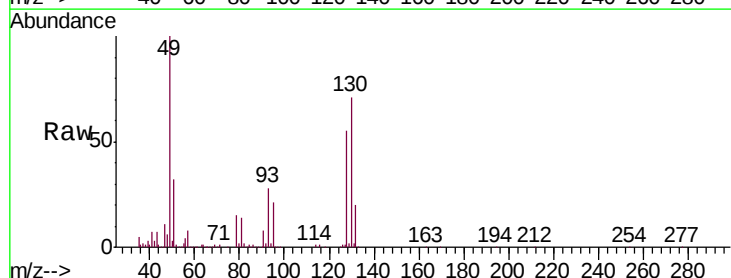
Instrument :
 MSVOA_L
 ClientSampleId :
 MMSV-02DL

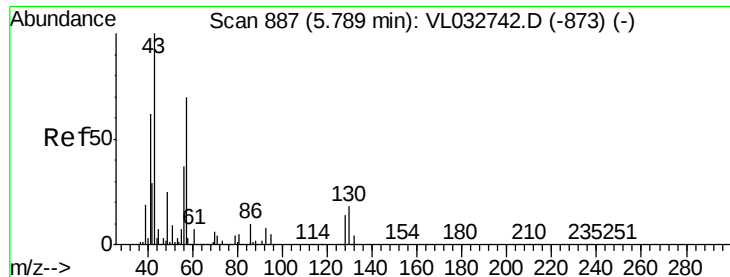
Tgt Ion:	43	Resp:	20478
Ion	Ratio	Lower	Upper
43	100		
86	4.0	6.2	9.4#
42	49.1	7.8	11.6#
44	0.2	4.4	6.6#



#25
 Ethyl Acetate
 Concen: 0.090 ppbv
 RT: 5.78 min Scan# 885
 Delta R.T. 0.01 min
 Lab File: VL032880.D
 Acq: 4 Dec 2018 17:25

Tgt Ion:	43	Resp:	29335
Ion	Ratio	Lower	Upper
43	100		
45	6.3	7.9	11.9#
61	1.2	7.8	11.6#
70	3.3	5.8	8.6#

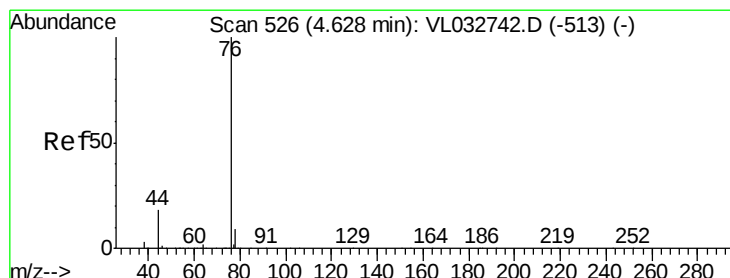
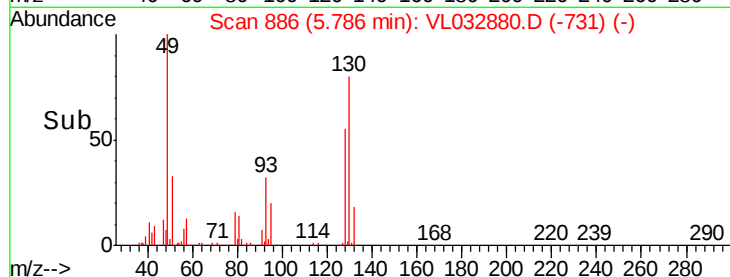
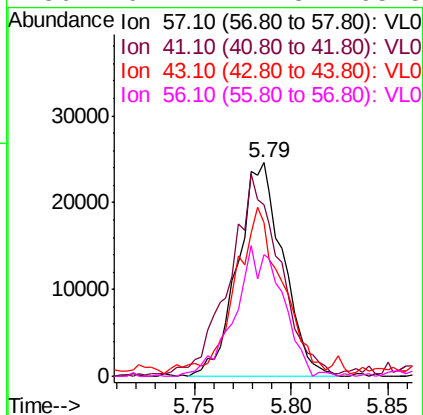
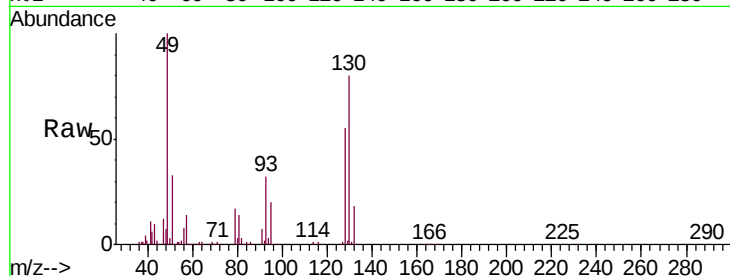




#26
Hexane
Concen: 0.277 ppbv
RT: 5.79 min Scan# 886
Delta R.T. -0.00 min
Lab File: VL032880.D
Acq: 4 Dec 2018 17:25

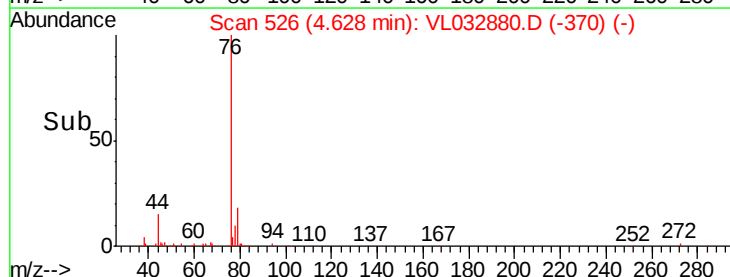
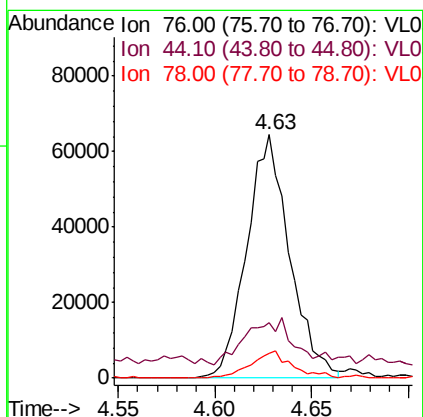
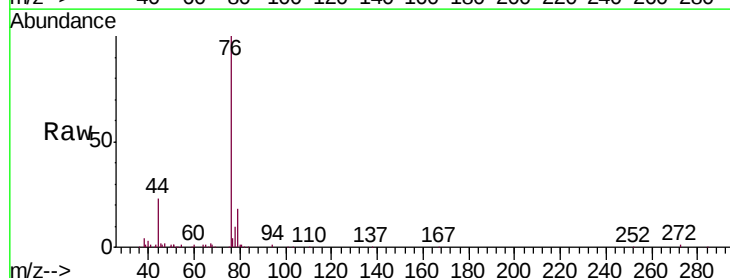
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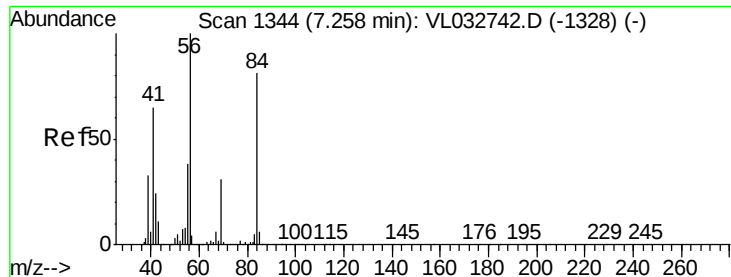
Tgt Ion: 57 Resp: 40019
Ion Ratio Lower Upper
57 100
41 108.3 70.3 105.5#
43 0.0 174.0 261.0#
56 64.4 42.3 63.5#



#27
Carbon Disulfide
Concen: 0.543 ppbv
RT: 4.63 min Scan# 526
Delta R.T. 0.00 min
Lab File: VL032880.D
Acq: 4 Dec 2018 17:25

Tgt Ion: 76 Resp: 99680
Ion Ratio Lower Upper
76 100
44 27.7 14.4 21.6#
78 11.1 7.7 11.5

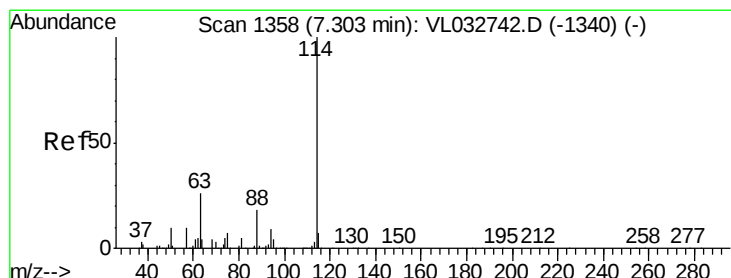
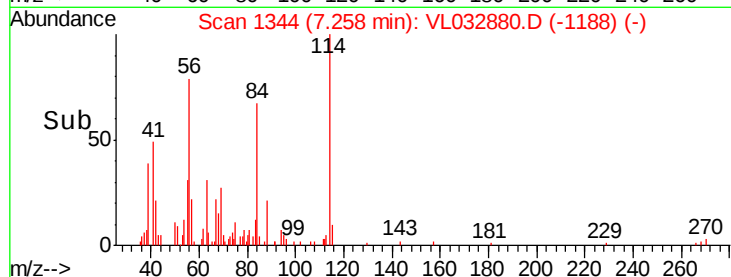
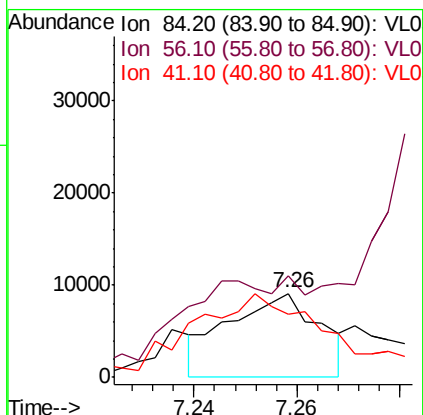
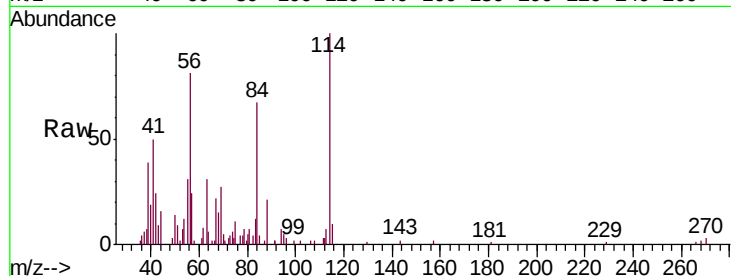




#30
Cyclohexane
Concen: 0.088 ppbv
RT: 7.26 min Scan# 1344
Delta R.T. 0.00 min
Lab File: VL032880.D
Acq: 4 Dec 2018 17:25

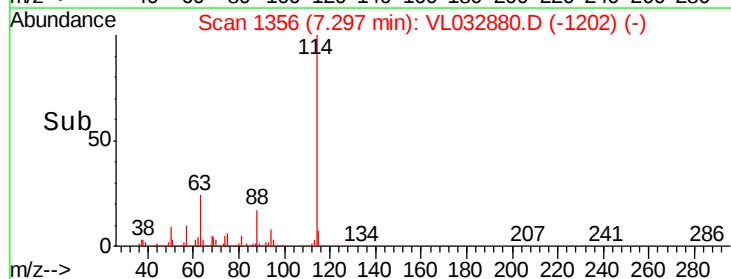
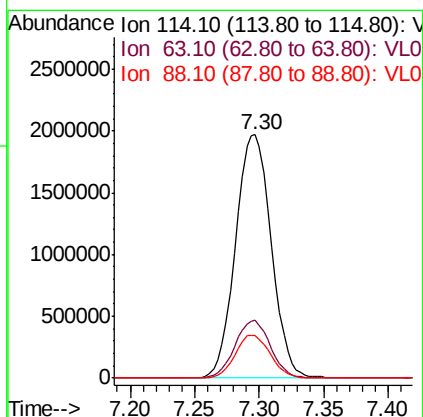
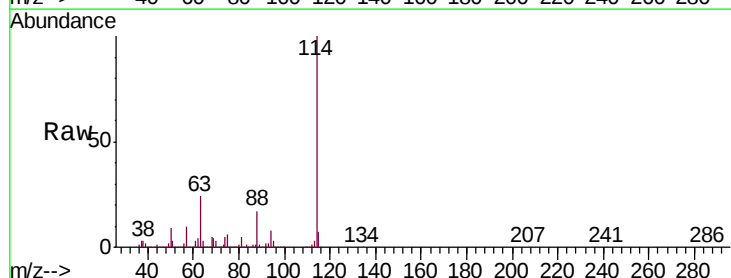
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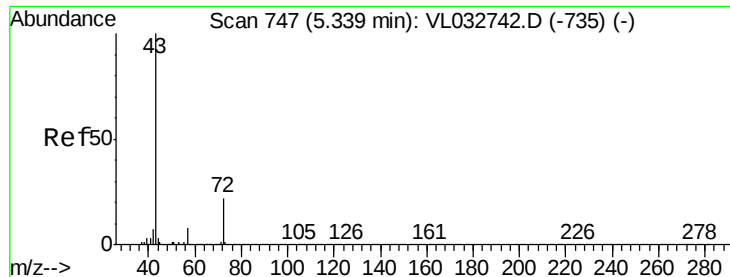
Tgt Ion: 84 Resp: 11172
Ion Ratio Lower Upper
84 100
56 0.0 105.0 157.4#
41 194.9 65.3 97.9#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1356
Delta R.T. -0.01 min
Lab File: VL032880.D
Acq: 4 Dec 2018 17:25

Tgt Ion: 114 Resp: 3788257
Ion Ratio Lower Upper
114 100
63 23.6 20.9 31.3
88 17.3 14.4 21.6

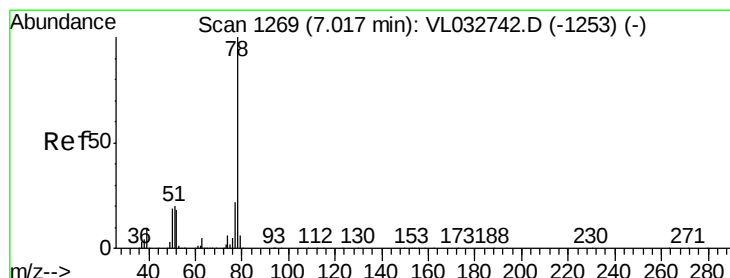
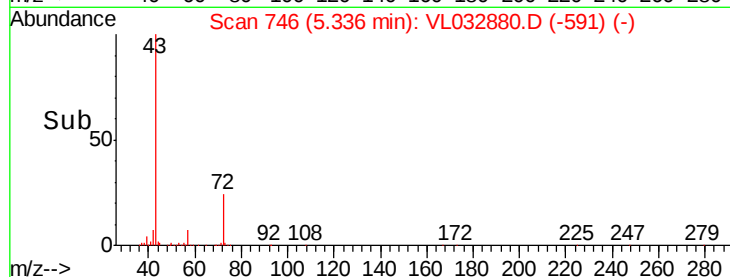
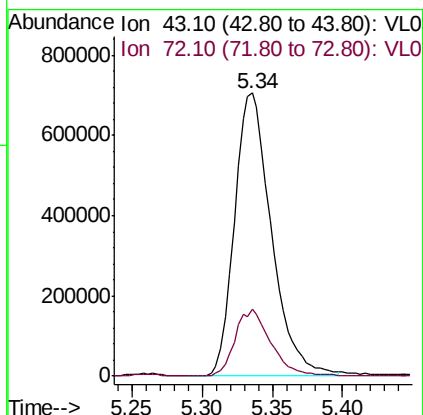
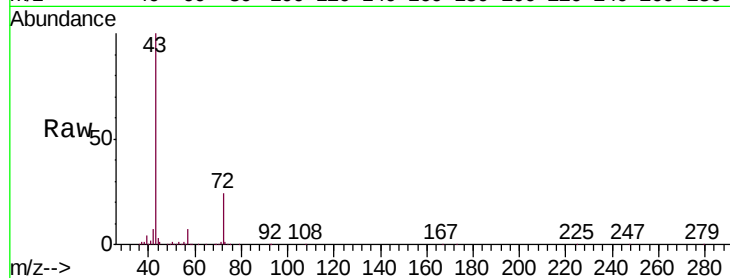




#34
2-Butanone
Concen: 6.575 ppbv
RT: 5.34 min Scan# 746
Delta R.T. -0.00 min
Lab File: VL032880.D
Acq: 4 Dec 2018 17:25

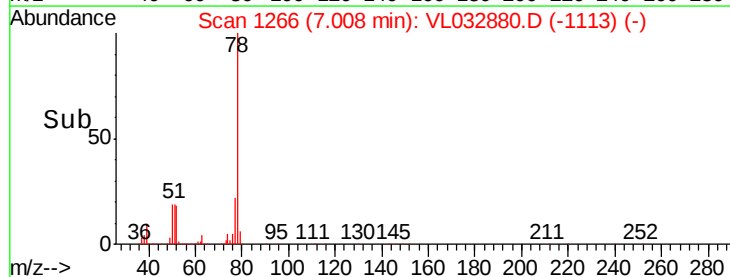
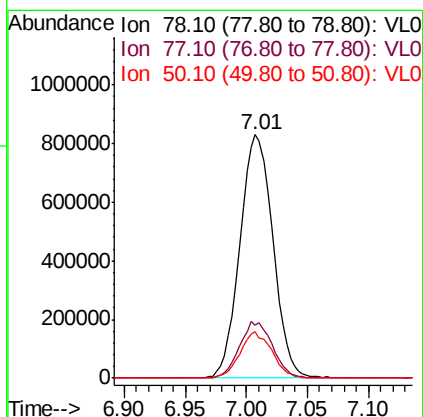
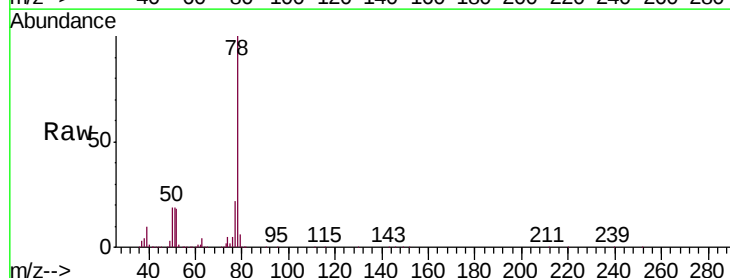
Instrument :
MSVOA_L
ClientSampleId :
MMSV-02DL

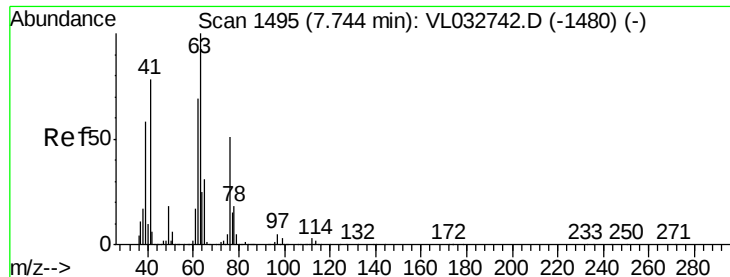
Tgt Ion: 43 Resp: 1291903
Ion Ratio Lower Upper
43 100
72 22.9 18.4 27.6



#36
Benzene
Concen: 5.134 ppbv
RT: 7.01 min Scan# 1266
Delta R.T. -0.01 min
Lab File: VL032880.D
Acq: 4 Dec 2018 17:25

Tgt Ion: 78 Resp: 1548840
Ion Ratio Lower Upper
78 100
77 21.9 17.8 26.8
50 19.1 15.4 23.0





#39

1,2-Dichloropropane

Concen: 7.732 ppbv

RT: 7.30 min Scan# 1356

Delta R.T. -0.45 min

Lab File: VL032880.D

Acq: 4 Dec 2018 17:25

Instrument :

MSVOA_L

ClientSampleId :

MMSV-02DL

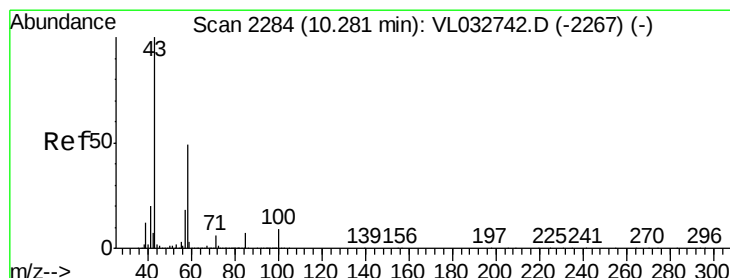
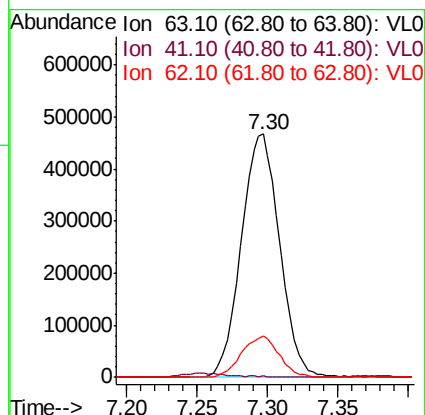
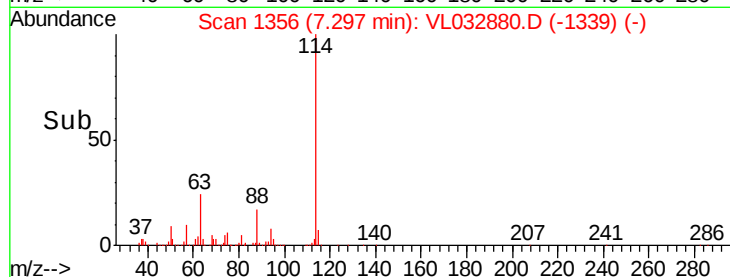
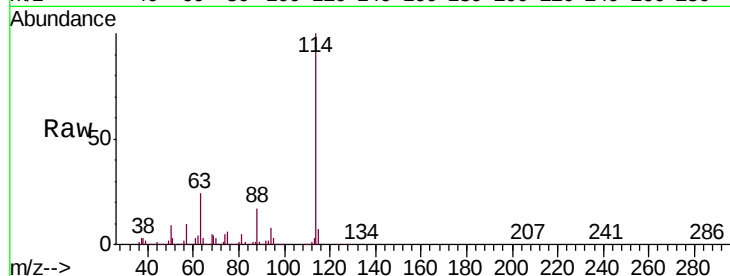
Tgt Ion: 63 Resp: 888735

Ion Ratio Lower Upper

63 100

41 0.1 62.0 93.0#

62 16.9 55.4 83.2#



#51

2-Hexanone

Concen: 0.422 ppbv

RT: 10.30 min Scan# 2291

Delta R.T. 0.02 min

Lab File: VL032880.D

Acq: 4 Dec 2018 17:25

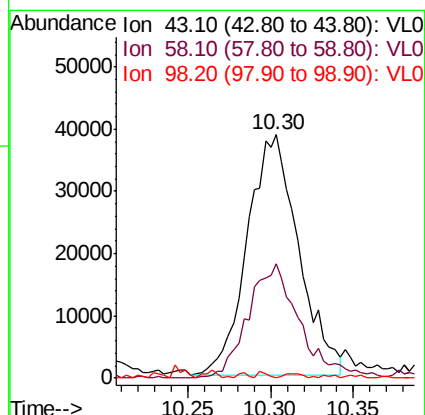
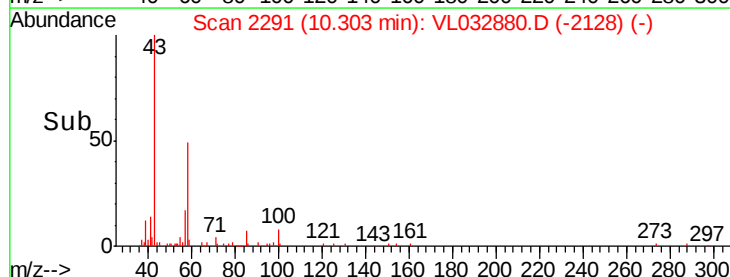
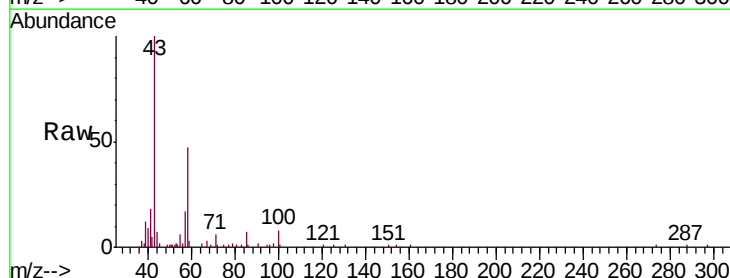
Tgt Ion: 43 Resp: 83386

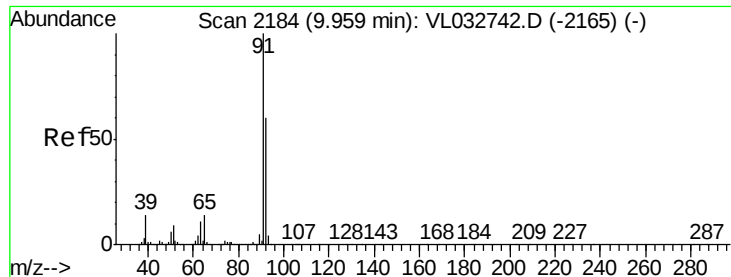
Ion Ratio Lower Upper

43 100

58 48.6 38.9 58.3

98 2.2 0.2 0.4#





#53

Toluene

Concen: 3.857 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL032880.D

Acq: 4 Dec 2018 17:25

Instrument :

MSVOA_L

ClientSampleId :

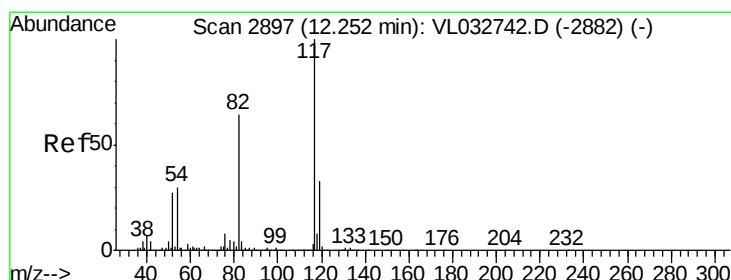
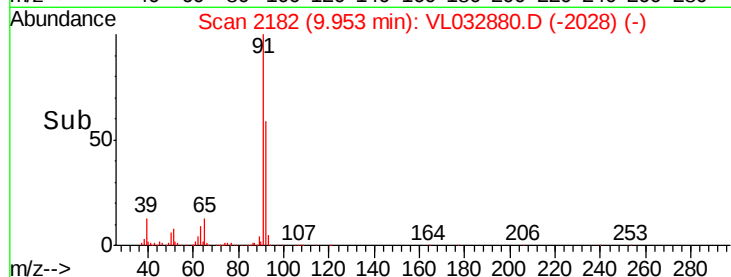
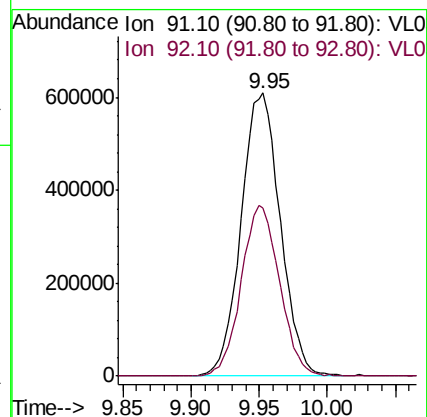
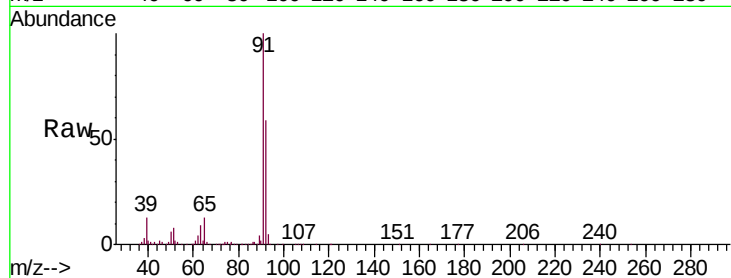
MMSV-02DL

Tgt Ion: 91 Resp: 1213686

Ion Ratio Lower Upper

91 100

92 59.3 47.9 71.9



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2895

Delta R.T. -0.01 min

Lab File: VL032880.D

Acq: 4 Dec 2018 17:25

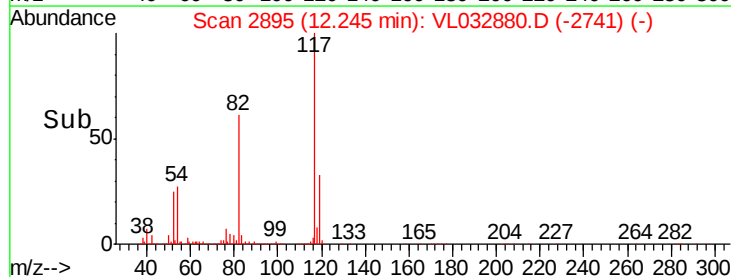
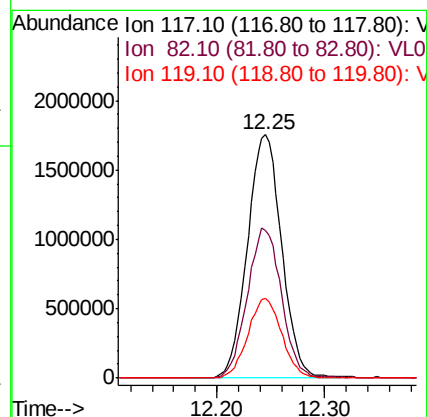
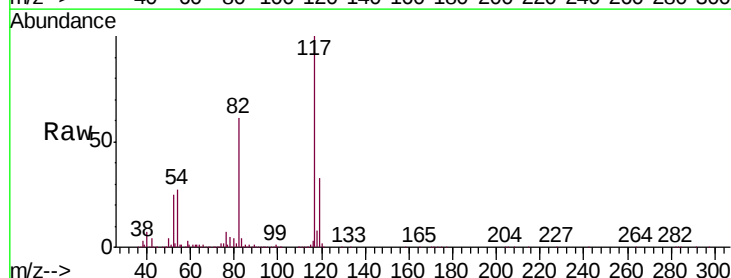
Tgt Ion: 117 Resp: 3858038

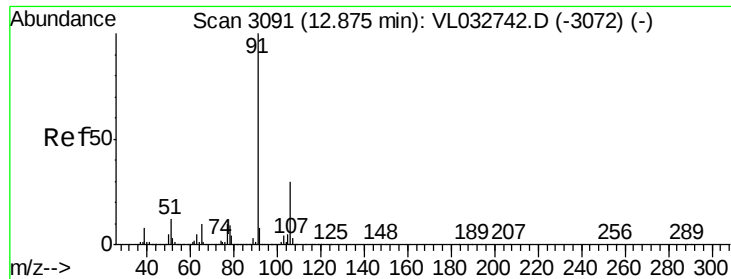
Ion Ratio Lower Upper

117 100

82 62.3 51.0 76.6

119 32.6 28.0 42.0





#58

Ethyl Benzene

Concen: 0.333 ppbv

RT: 12.87 min Scan# 3089

Delta R.T. -0.01 min

Lab File: VL032880.D

Acq: 4 Dec 2018 17:25

Instrument :

MSVOA_L

ClientSampleId :

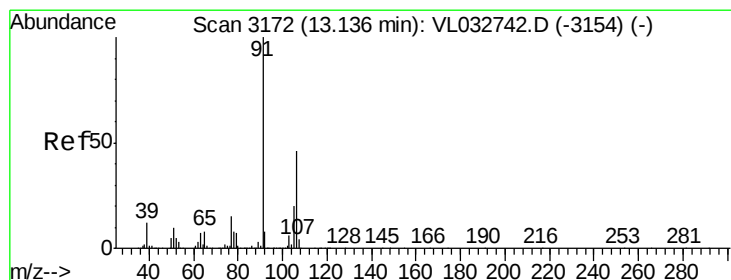
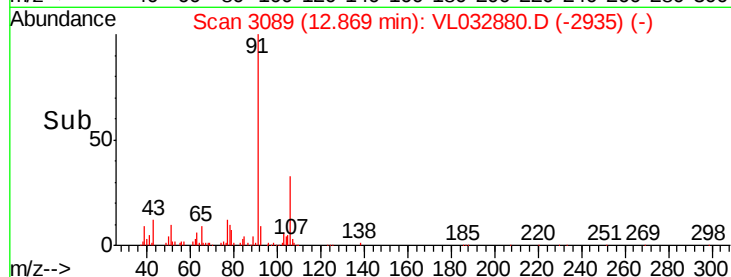
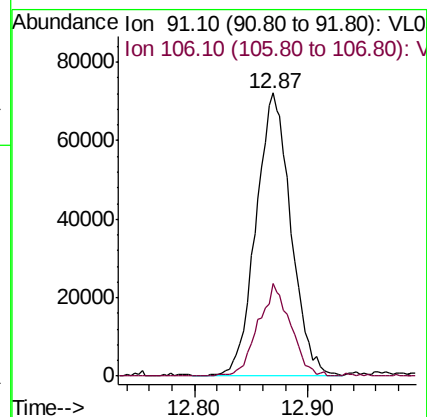
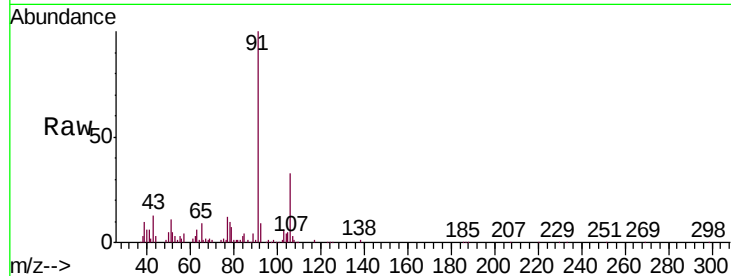
MMSV-02DL

Tgt Ion: 91 Resp: 154772

Ion Ratio Lower Upper

91 100

106 32.5 23.6 35.4



#59

m/p-Xylene

Concen: 1.202 ppbv

RT: 13.12 min Scan# 3168

Delta R.T. -0.01 min

Lab File: VL032880.D

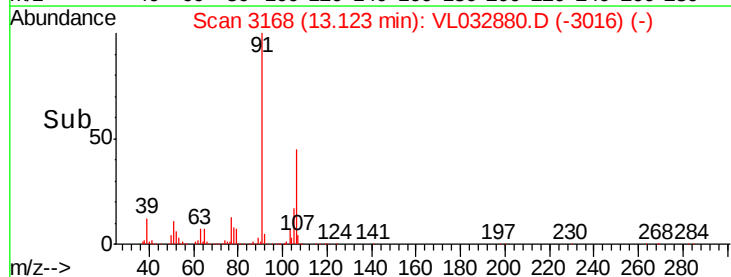
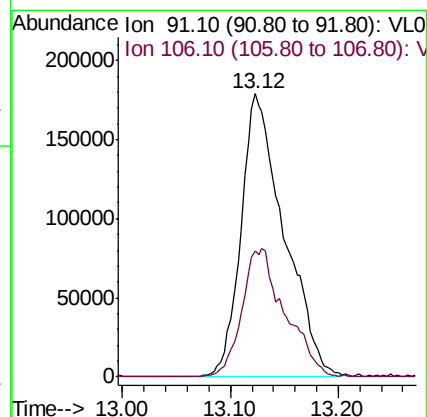
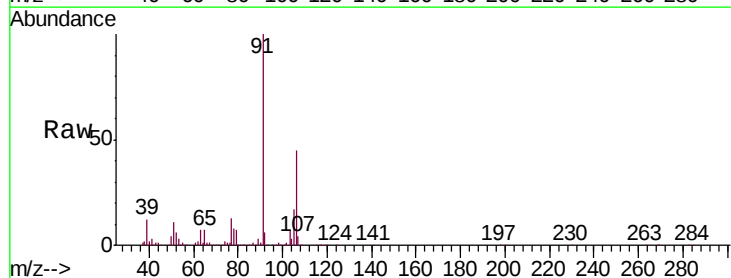
Acq: 4 Dec 2018 17:25

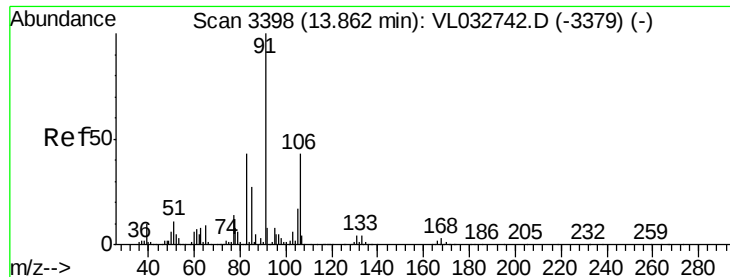
Tgt Ion: 91 Resp: 496803

Ion Ratio Lower Upper

91 100

106 45.5 36.1 54.1

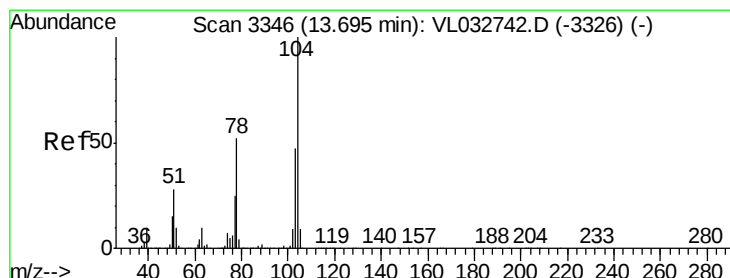
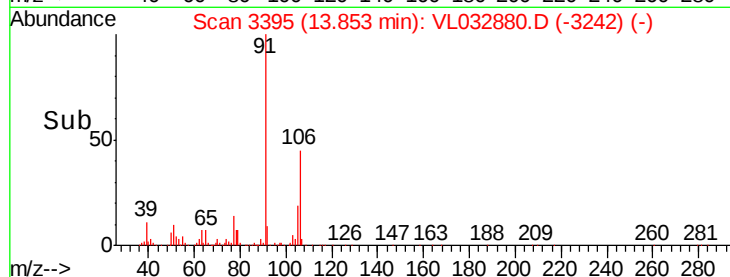
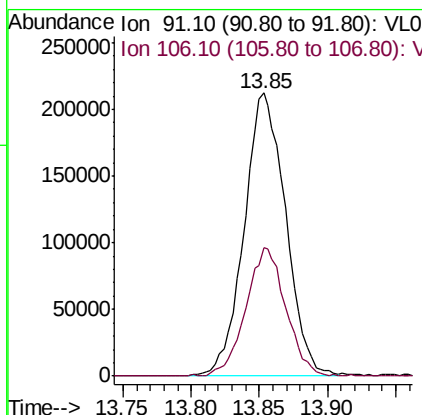
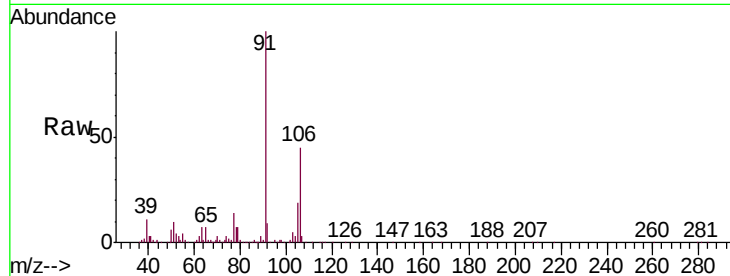




#60
o-Xylene
Concen: 1.074 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. -0.01 min
Lab File: VL032880.D
Acq: 4 Dec 2018 17:25

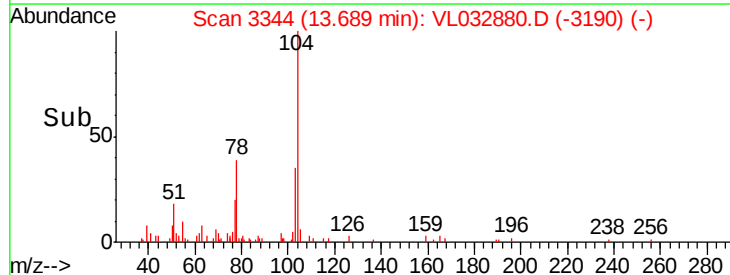
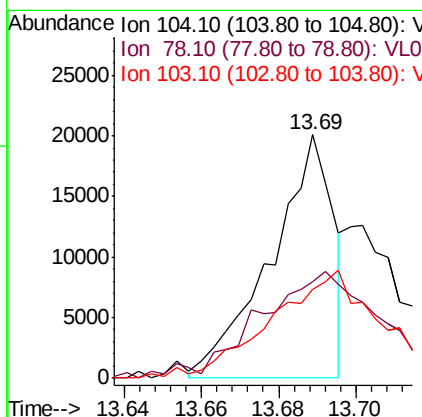
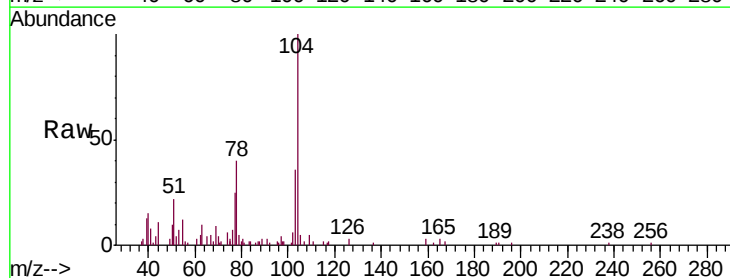
Instrument :
MSVOA_L
ClientSampleId :
MMSV-02DL

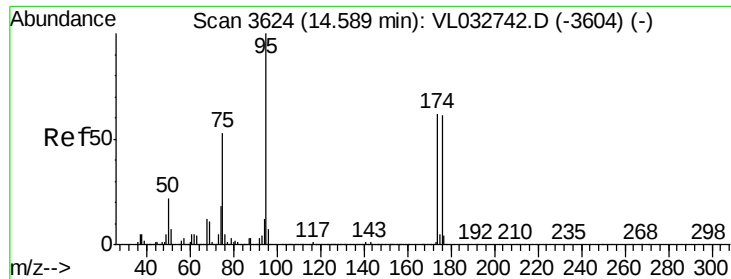
Tgt Ion: 91 Resp: 446440
Ion Ratio Lower Upper
91 100
106 44.1 21.9 65.7



#61
Styrene
Concen: 0.083 ppbv
RT: 13.69 min Scan# 3344
Delta R.T. -0.01 min
Lab File: VL032880.D
Acq: 4 Dec 2018 17:25

Tgt Ion: 104 Resp: 22391
Ion Ratio Lower Upper
104 100
78 92.8 42.2 63.4#
103 79.9 38.2 57.2#

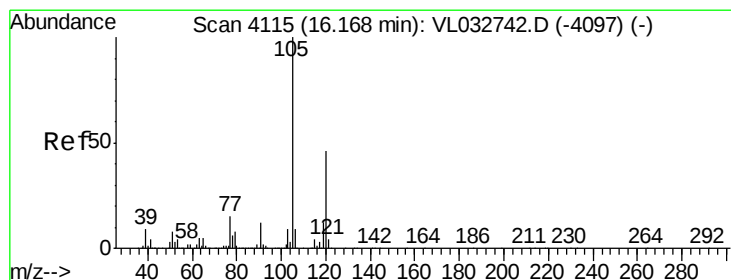
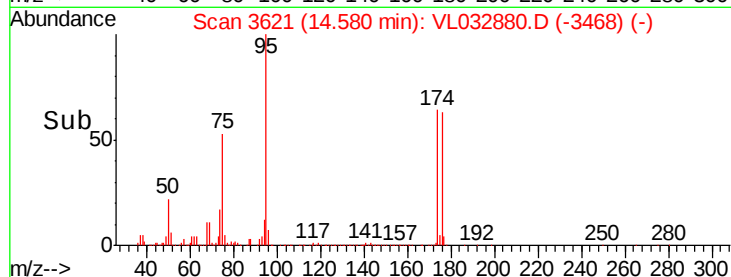
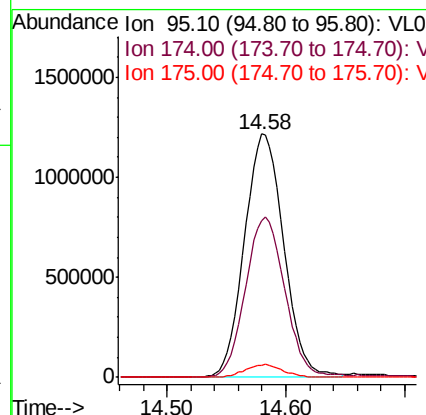
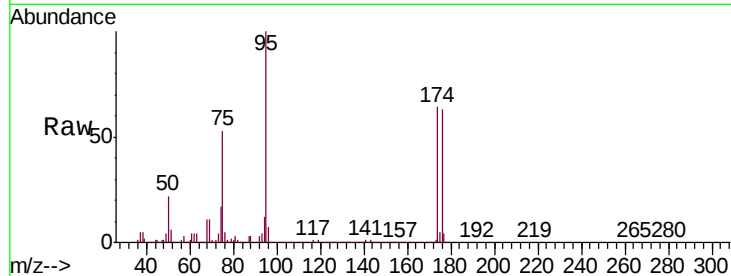




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.672 ppbv
 RT: 14.58 min Scan# 3621
 Delta R.T. -0.01 min
 Lab File: VL032880.D
 Acq: 4 Dec 2018 17:25

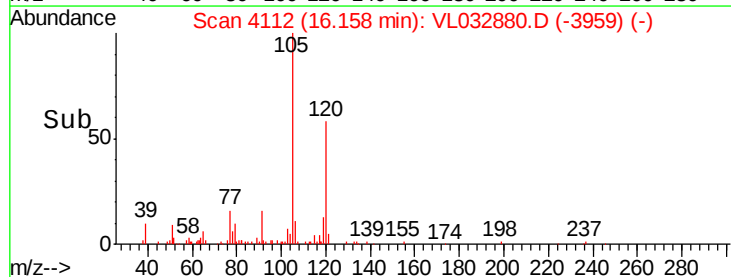
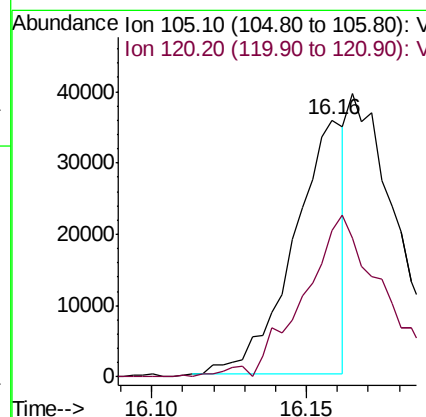
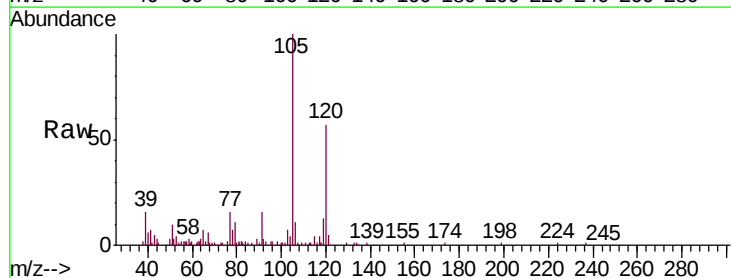
Instrument :
 MSVOA_L
 ClientSampleId :
 MMSV-02DL

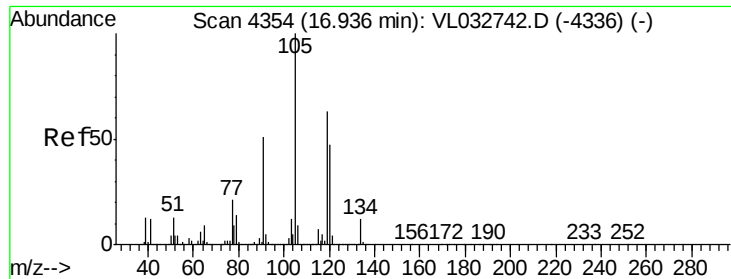
Tgt Ion: 95 Resp: 2790836
 Ion Ratio Lower Upper
 95 100
 174 67.0 50.7 76.1
 175 5.1 3.8 5.6



#73
 1,3,5-Trimethylbenzene
 Concen: 0.091 ppbv
 RT: 16.16 min Scan# 4112
 Delta R.T. -0.01 min
 Lab File: VL032880.D
 Acq: 4 Dec 2018 17:25

Tgt Ion: 105 Resp: 40583
 Ion Ratio Lower Upper
 105 100
 120 57.8 36.6 55.0#





#74

1,2,4-Trimethylbenzene

Concen: 0.469 ppbv

RT: 16.93 min Scan# 4351

Delta R.T. -0.01 min

Lab File: VL032880.D

Acq: 4 Dec 2018 17:25

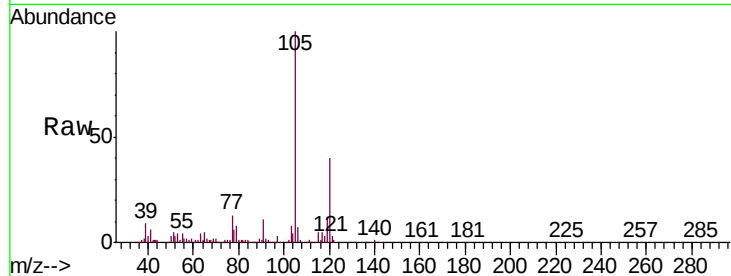
Instrument :

MSVOA_L

ClientSampleId :

MMSV-02DL

Tgt Ion:	105	Resp:	223598
Ion	Ratio	Lower	Upper
105	100		
120	40.1	37.6	56.4
91	10.7	42.5	63.7#
77	12.5	17.4	26.2#



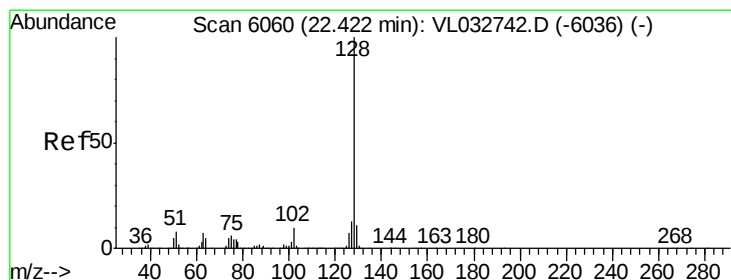
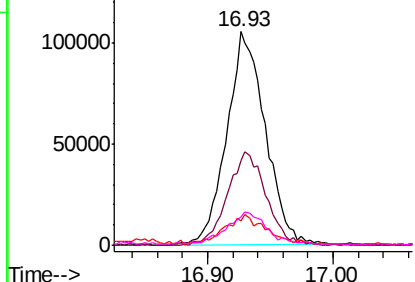
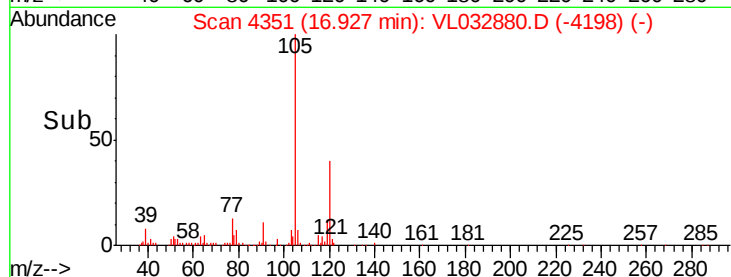
Abundance

Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#79

Naphthalene

Concen: 0.064 ppbv

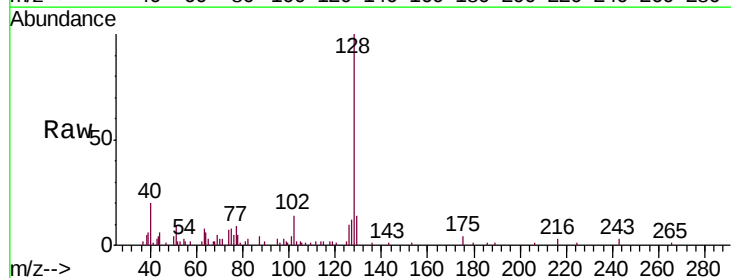
RT: 22.42 min Scan# 6061

Delta R.T. 0.00 min

Lab File: VL032880.D

Acq: 4 Dec 2018 17:25

Tgt Ion:	128	Resp:	20148
Ion	Ratio	Lower	Upper
128	100		
127	7.2	10.1	15.1#
129	13.4	8.9	13.3#



Abundance

Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V

