

Data File : VL032895.D
Acq On : 5 Dec 2018 3:16
Operator : SY/AP
Sample : J6176-03DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
MMSV-08DL

Quant Time: Dec 05 05:53:31 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	5.76	49	1478967	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3604533	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3656276	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2654277	9.71	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.10%

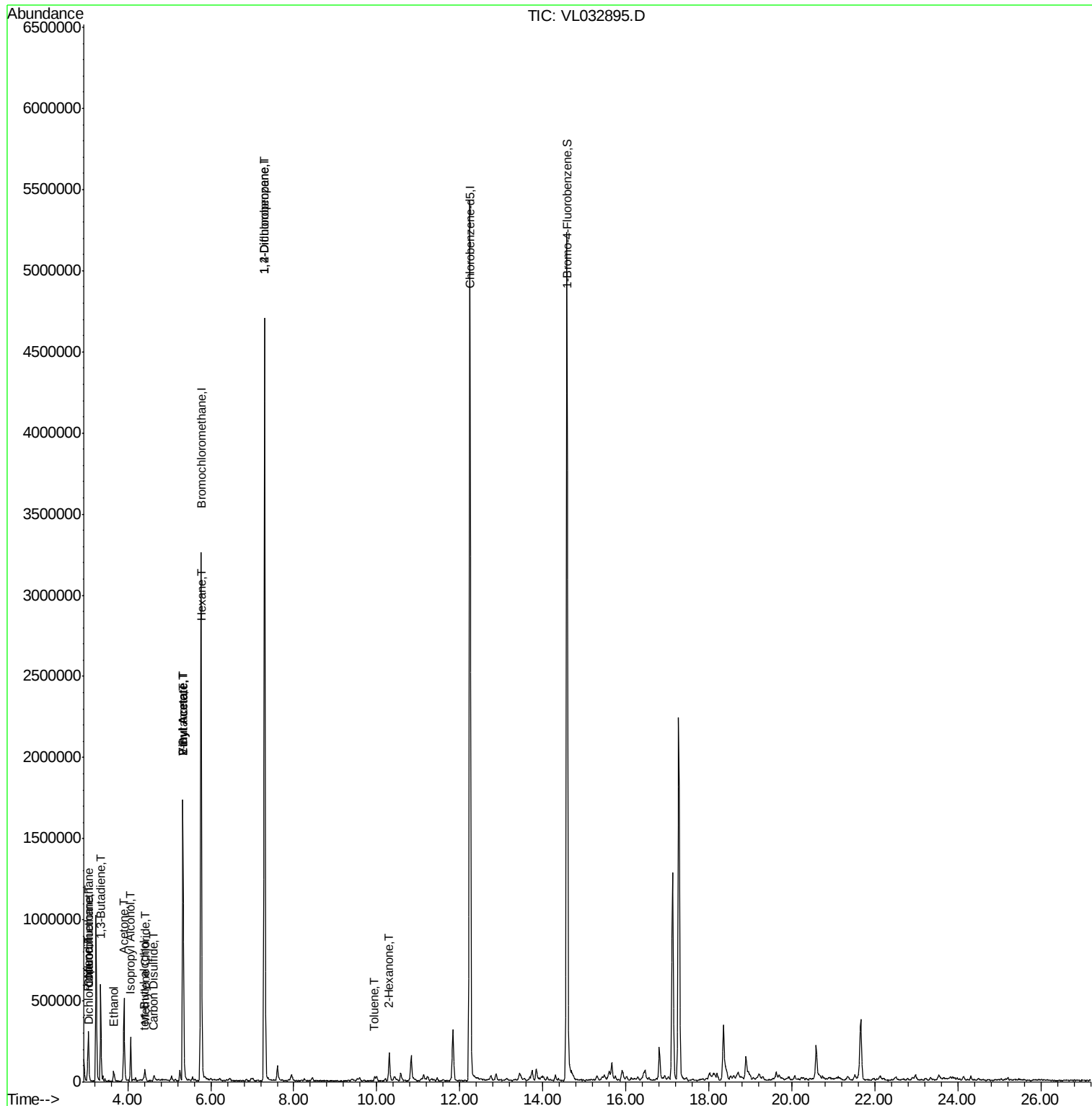
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.08	85	10781	0.051	ppbv 98
3) Chlorodifluoromethane	3.06	51	100794	0.860	ppbv # 59
9) Propene	3.04	41	90773	1.935	ppbv 99
13) Ethanol	3.66	45	68067	4.429	ppbv 98
15) Acetone	3.90	43	467694	3.463	ppbv # 75
16) 1,3-Butadiene	3.35	39	136560	2.611	ppbv # 13
17) tert-Butyl alcohol	4.39	59	8263	0.195	ppbv # 72
19) Isopropyl Alcohol	4.06	45	3460	0.038	ppbv # 95
20) Methylene Chloride	4.41	84	21124	0.302	ppbv 93
23) Vinyl Acetate	5.33	43	2047154	8.315	ppbv # 86
25) Ethyl Acetate	5.33	43	2047154	6.503	ppbv # 76
26) Hexane	5.78	57	16388	0.117	ppbv # 1
27) Carbon Disulfide	4.63	76	7591	0.043	ppbv # 1
34) 2-Butanone	5.33	43	2047154	10.950	ppbv 99
39) 1,2-Dichloropropane	7.29	63	840386	7.684	ppbv # 22
51) 2-Hexanone	10.30	43	137444	0.731	ppbv # 95
53) Toluene	9.94	91	9757	0.033	ppbv # 1

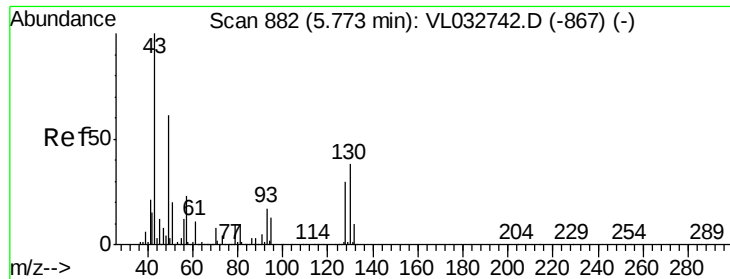
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.01 min

Lab File: VL032895.D

Acq: 5 Dec 2018 3:16

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MMSV-08DL

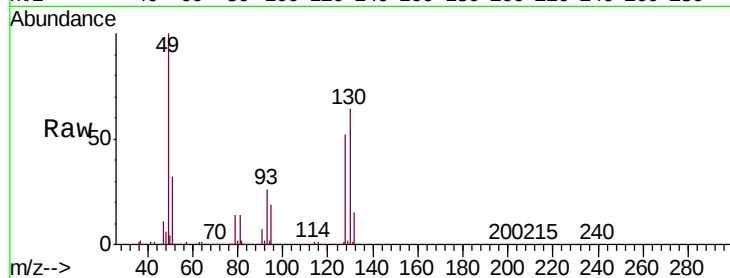
Tgt Ion: 49 Resp: 1478967

Ion Ratio Lower Upper

49 100

128 51.9 24.9 74.6

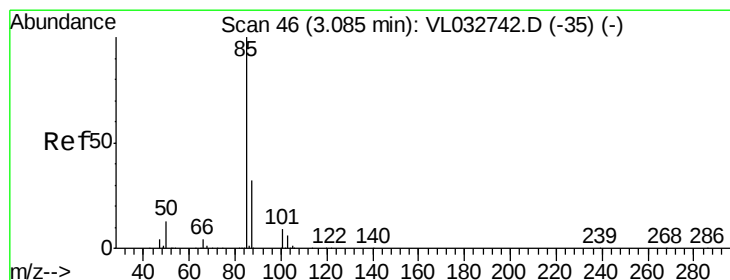
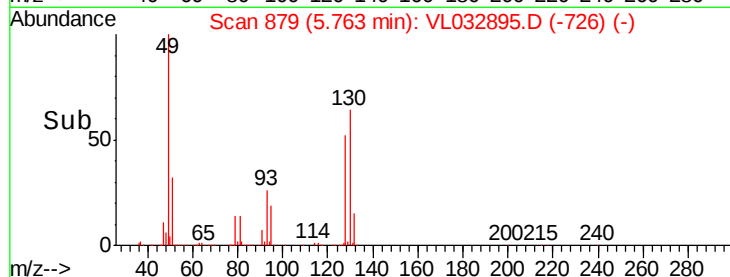
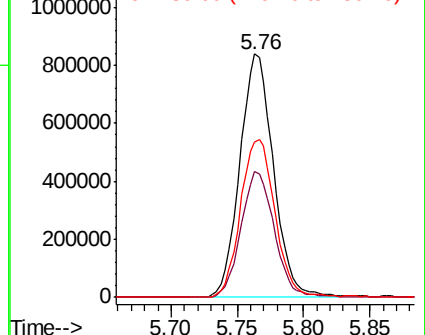
130 67.3 31.4 94.2



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: 0.051 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032895.D

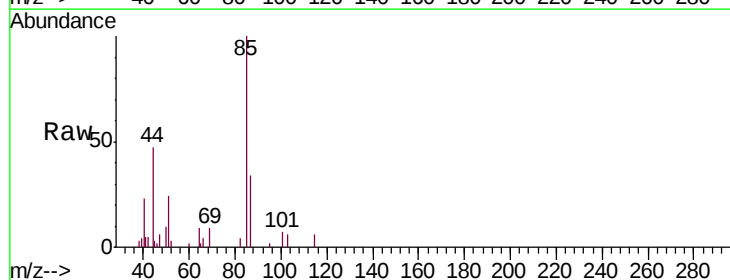
Acq: 5 Dec 2018 3:16

Tgt Ion: 85 Resp: 10781

Ion Ratio Lower Upper

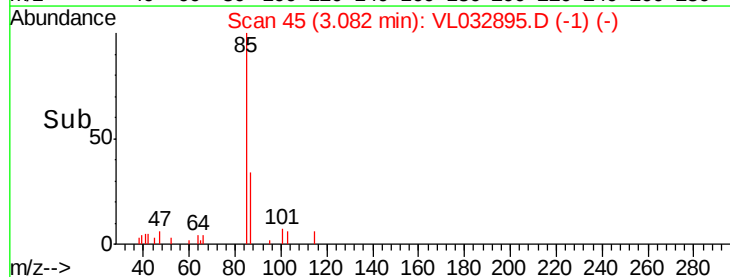
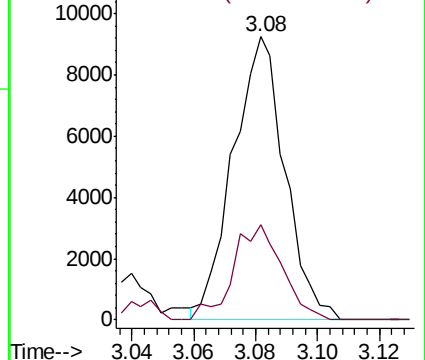
85 100

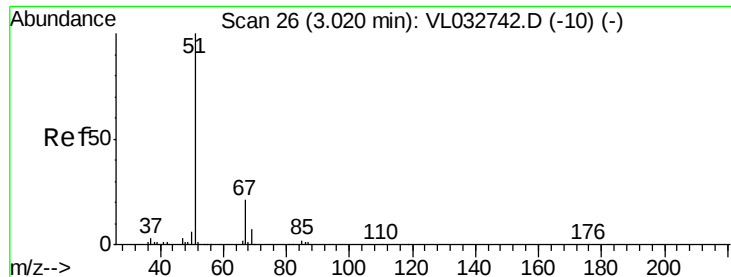
87 33.8 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

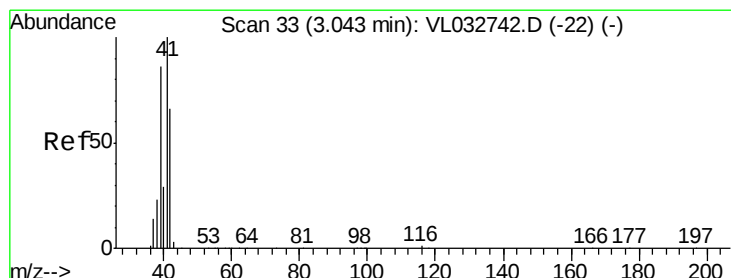
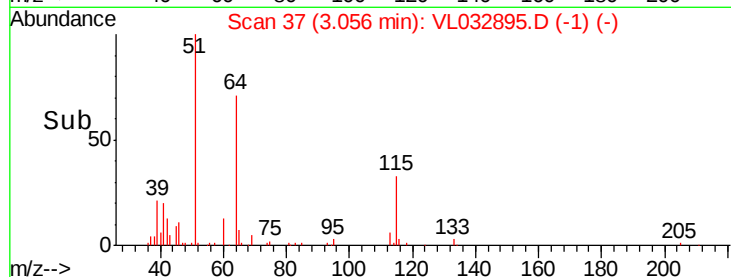
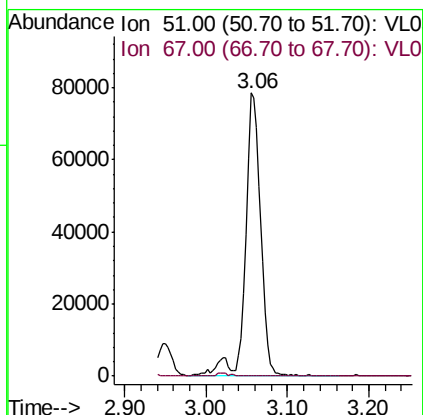
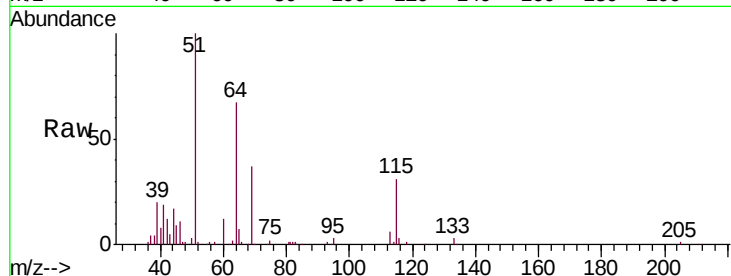




#3
 Chlorodifluoromethane
 Concen: 0.860 ppbv
 RT: 3.06 min Scan# 37
 Delta R.T. 0.04 min
 Lab File: VL032895.D
 Acq: 5 Dec 2018 3:16

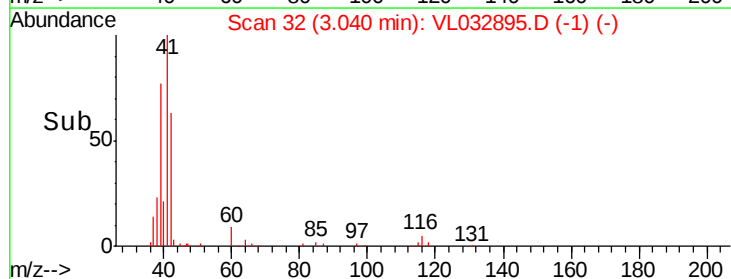
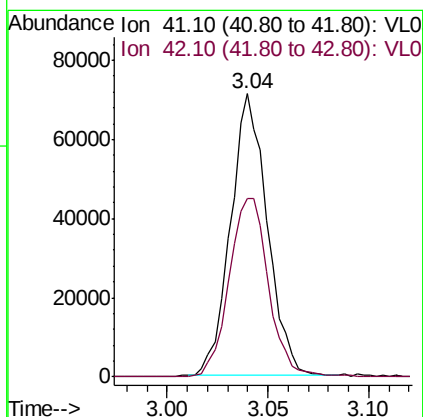
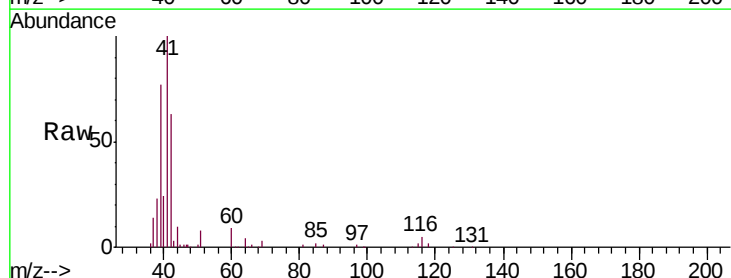
Instrument :
 MSVOA_L
 ClientSampleId :
 MMSV-08DL

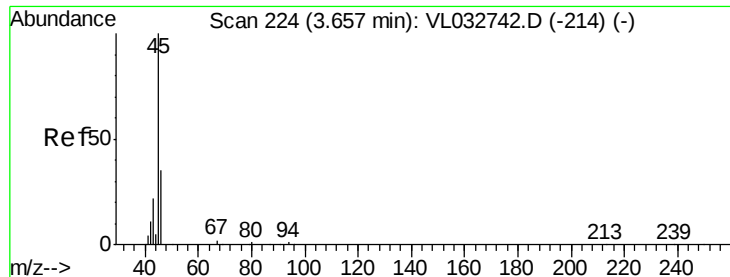
Tgt Ion: 51 Resp: 100794
 Ion Ratio Lower Upper
 51 100
 67 1.2 16.1 24.1#



#9
 Propene
 Concen: 1.935 ppbv
 RT: 3.04 min Scan# 32
 Delta R.T. -0.00 min
 Lab File: VL032895.D
 Acq: 5 Dec 2018 3:16

Tgt Ion: 41 Resp: 90773
 Ion Ratio Lower Upper
 41 100
 42 68.3 55.0 82.6





#13

Ethanol

Concen: 4.429 ppbv

RT: 3.66 min Scan# 225

Delta R.T. 0.00 min

Lab File: VL032895.D

Acq: 5 Dec 2018 3:16

Instrument :

MSVOA_L

ClientSampleId :

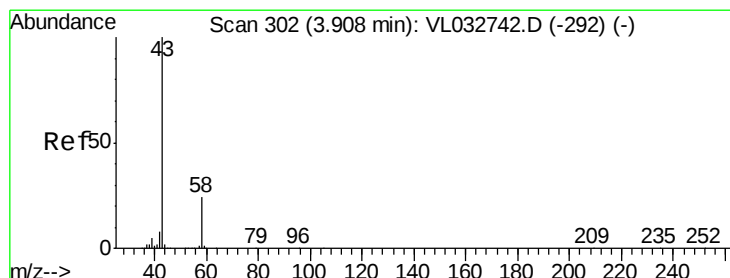
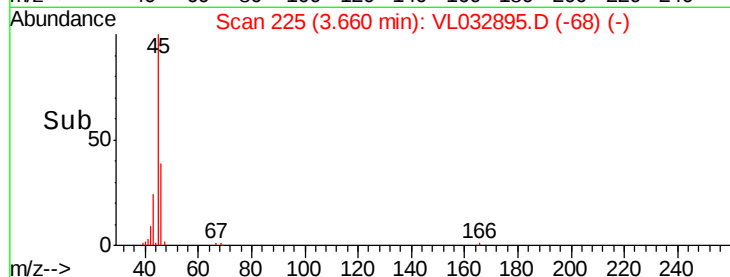
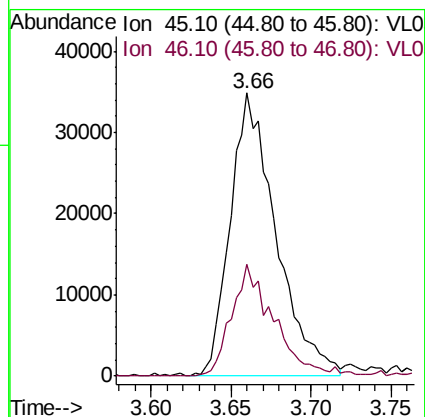
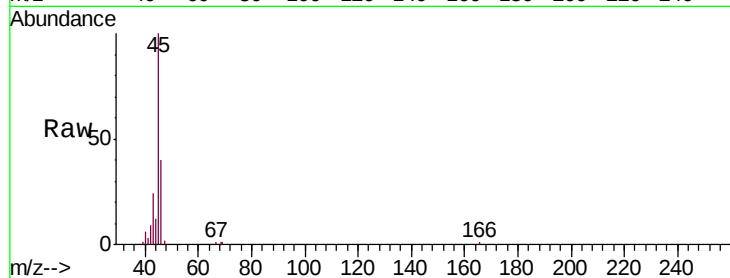
MMSV-08DL

Tgt Ion: 45 Resp: 68067

Ion Ratio Lower Upper

45 100

46 37.6 14.5 57.9



#15

Acetone

Concen: 3.463 ppbv

RT: 3.90 min Scan# 301

Delta R.T. -0.00 min

Lab File: VL032895.D

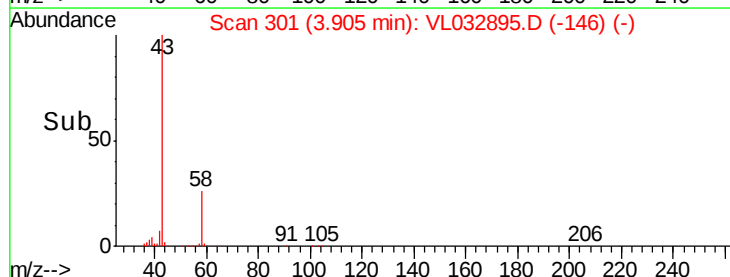
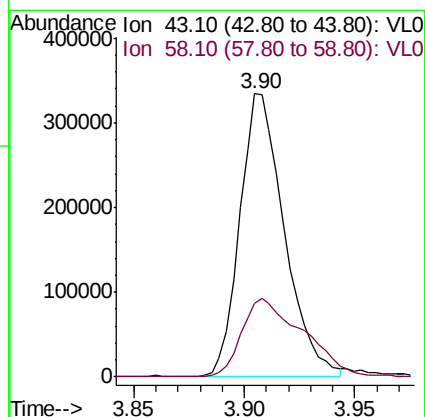
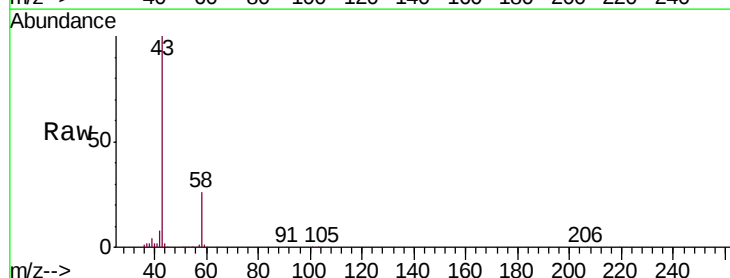
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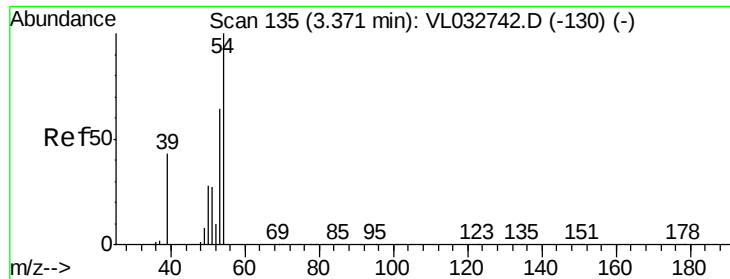
Tgt Ion: 43 Resp: 467694

Ion Ratio Lower Upper

43 100

58 39.0 21.1 31.7#

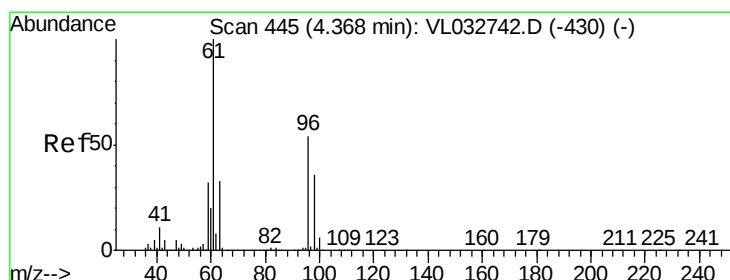
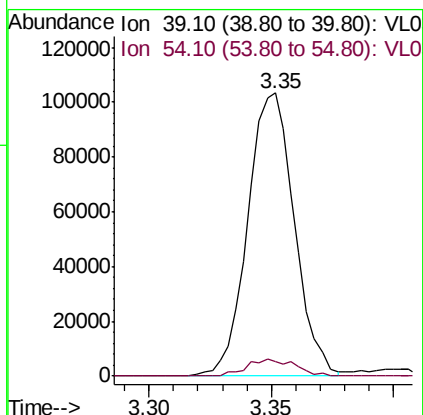
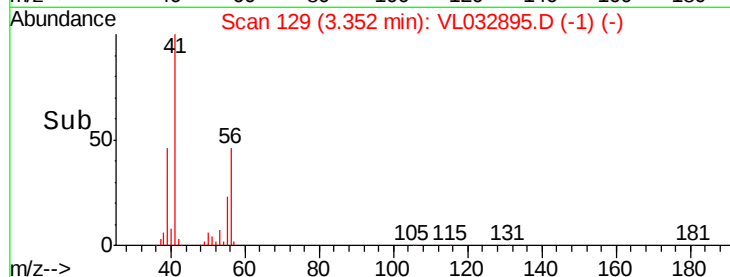
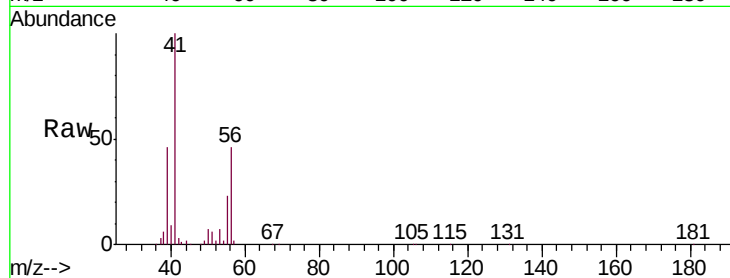




#16
1,3-Butadiene
Concen: 2.611 ppbv
RT: 3.35 min Scan# 129
Delta R.T. -0.02 min
Lab File: VL032895.D
Acq: 5 Dec 2018 3:16

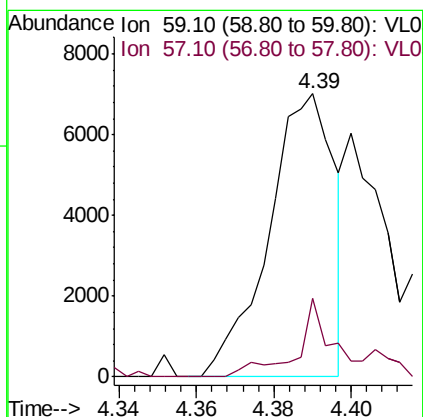
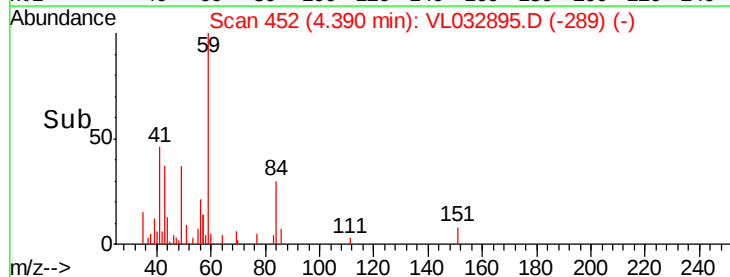
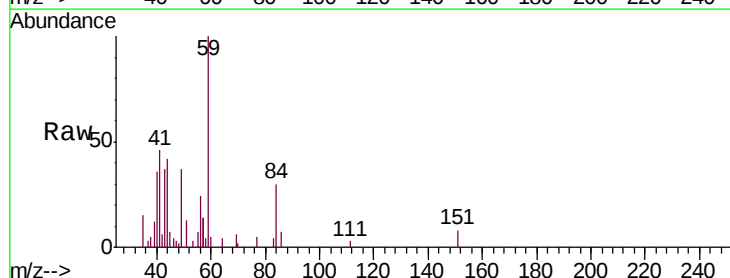
Instrument :
MSVOA_L
ClientSampleId :
MMSV-08DL

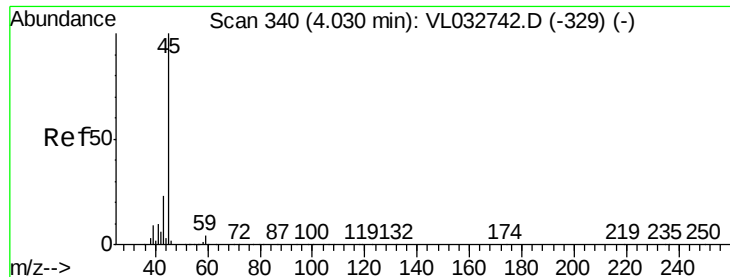
Tgt Ion: 39 Resp: 136560
Ion Ratio Lower Upper
39 100
54 6.3 68.9 103.3#



#17
tert-Butyl alcohol
Concen: 0.195 ppbv
RT: 4.39 min Scan# 452
Delta R.T. 0.02 min
Lab File: VL032895.D
Acq: 5 Dec 2018 3:16

Tgt Ion: 59 Resp: 8263
Ion Ratio Lower Upper
59 100
57 20.0 7.8 11.8#





#19

Isopropyl Alcohol

Concen: 0.038 ppbv

RT: 4.06 min Scan# 348

Delta R.T. 0.03 min

Lab File: VL032895.D

Acq: 5 Dec 2018 3:16

Instrument :

MSVOA_L

ClientSampleId :

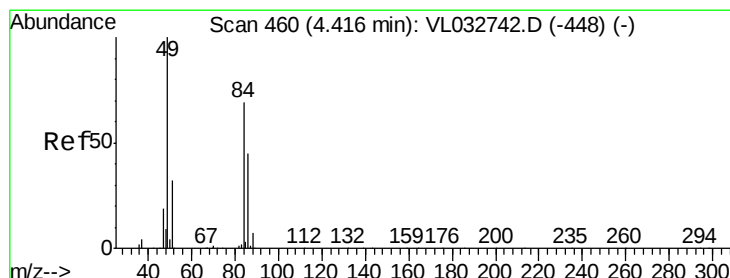
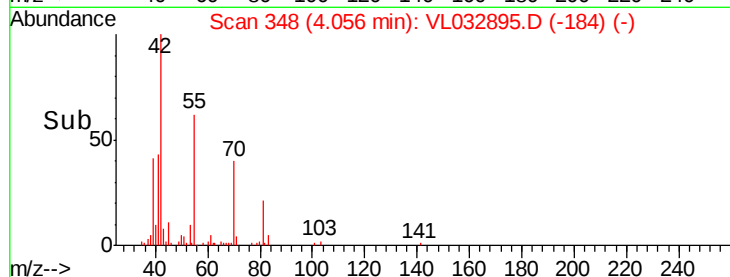
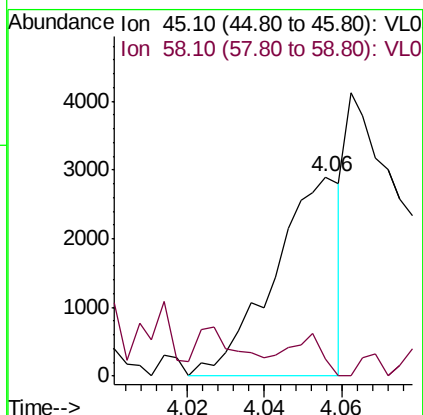
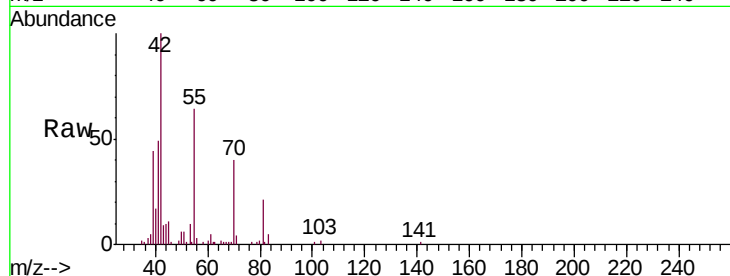
MMSV-08DL

Tgt Ion: 45 Resp: 3460

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.0#



#20

Methylene Chloride

Concen: 0.302 ppbv

RT: 4.41 min Scan# 459

Delta R.T. -0.00 min

Lab File: VL032895.D

Acq: 5 Dec 2018 3:16

Tgt Ion: 84 Resp: 21124

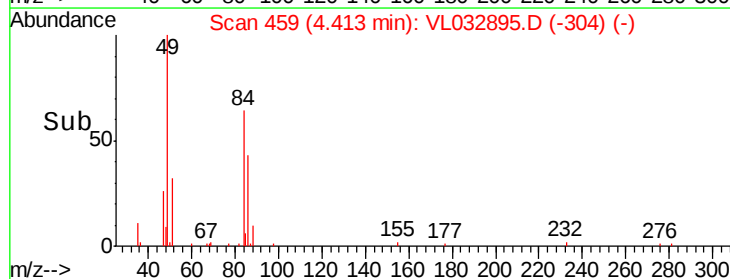
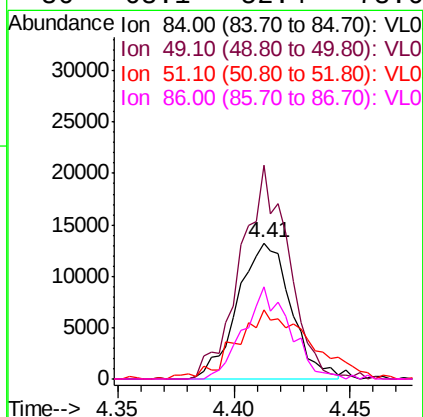
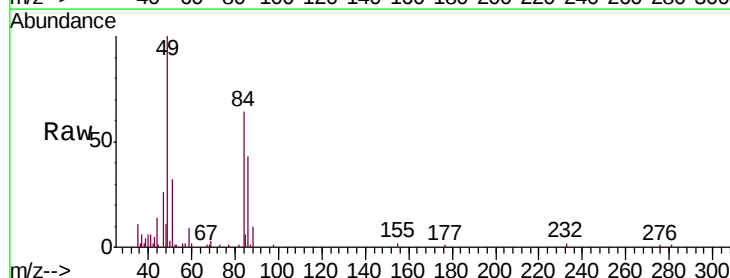
Ion Ratio Lower Upper

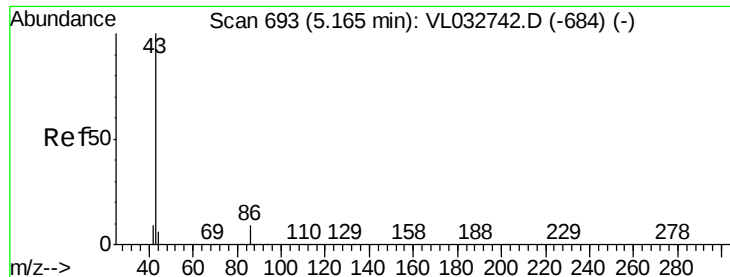
84 100

49 157.4 115.8 173.6

51 47.0 36.9 55.3

86 68.1 52.4 78.6





#23

Vinyl Acetate

Concen: 8.315 ppbv

RT: 5.33 min Scan# 744

Delta R.T. 0.16 min

Lab File: VL032895.D

Acq: 5 Dec 2018 3:16

Instrument :

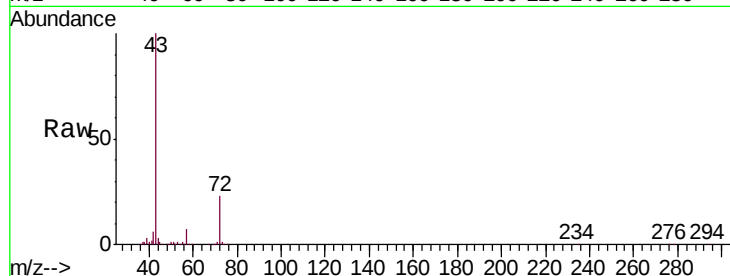
MSVOA_L

ClientSampleId :

MMSV-08DL

Tgt Ion: 43 Resp: 2047154

Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.2	9.4#
42	6.3	7.8	11.6#
44	2.4	4.4	6.6#

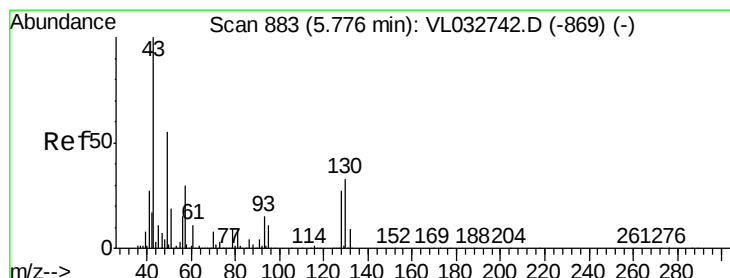
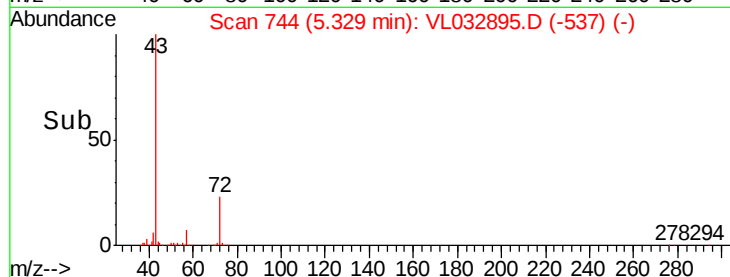
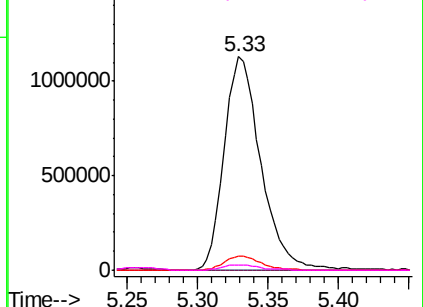


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 6.503 ppbv

RT: 5.33 min Scan# 744

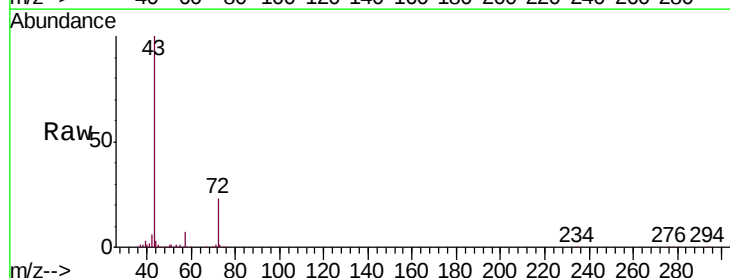
Delta R.T. -0.45 min

Lab File: VL032895.D

Acq: 5 Dec 2018 3:16

Tgt Ion: 43 Resp: 2047154

Ion	Ratio	Lower	Upper
43	100		
45	0.7	7.9	11.9#
61	0.0	7.8	11.6#
70	0.1	5.8	8.6#

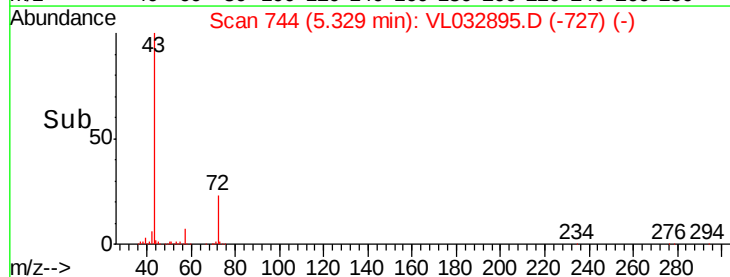
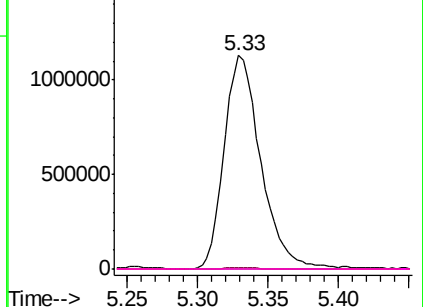


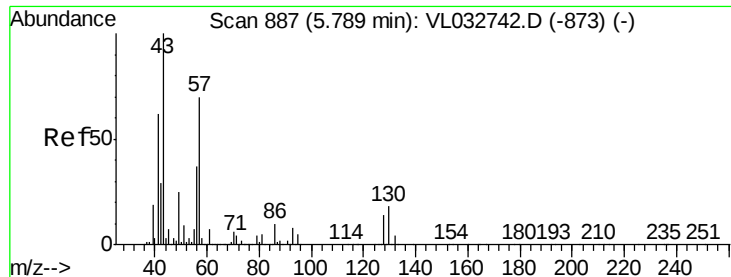
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

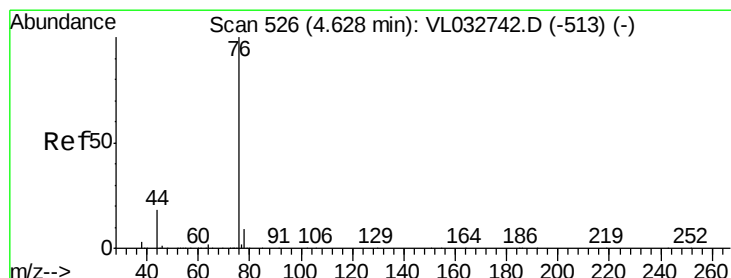
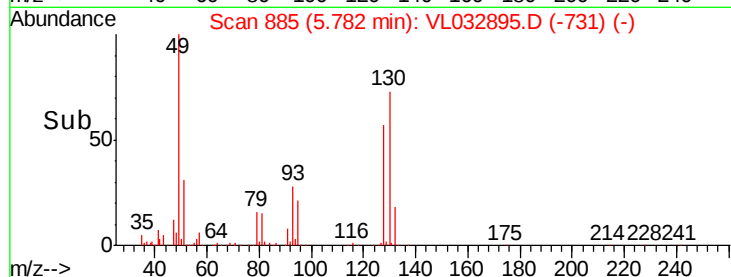
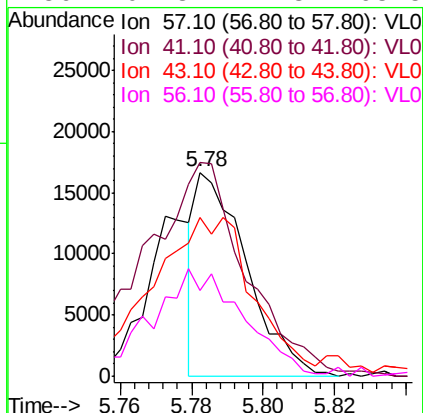
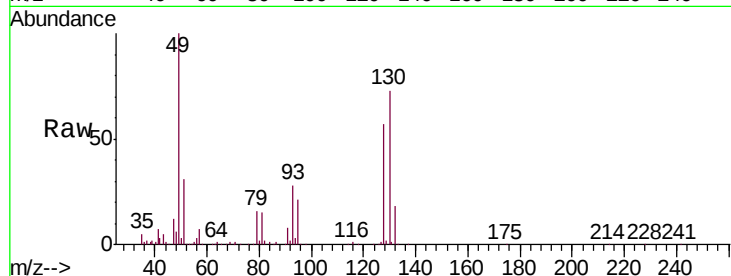




#26
Hexane
Concen: 0.117 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.01 min
Lab File: VL032895.D
Acq: 5 Dec 2018 3:16

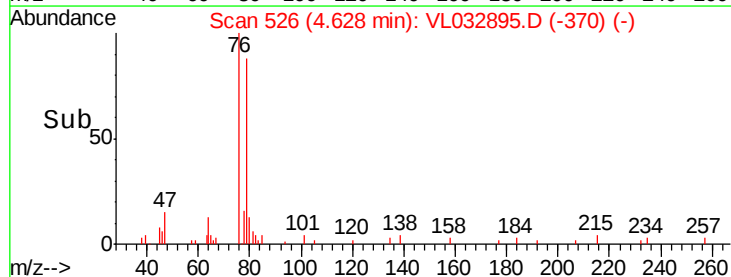
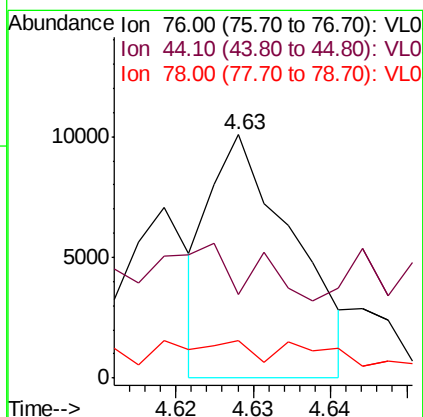
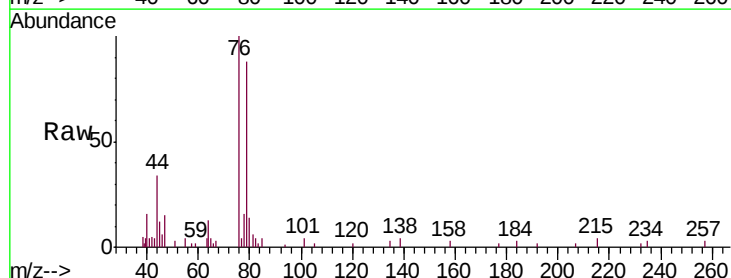
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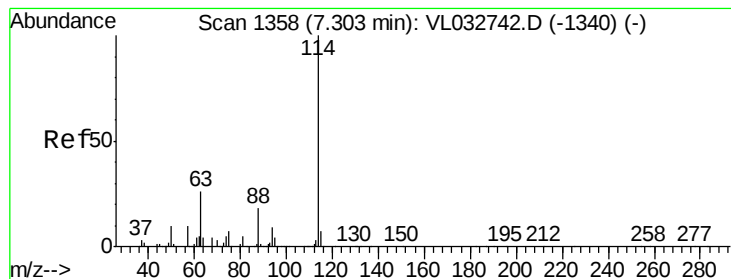
Tgt Ion:	57	Resp:	16388
Ion	Ratio	Lower	Upper
57	100		
41	219.4	70.3	105.5#
43	0.0	174.0	261.0#
56	101.3	42.3	63.5#



#27
Carbon Disulfide
Concen: 0.043 ppbv
RT: 4.63 min Scan# 526
Delta R.T. 0.00 min
Lab File: VL032895.D
Acq: 5 Dec 2018 3:16

Tgt Ion:	76	Resp:	7591
Ion	Ratio	Lower	Upper
76	100		
44	261.3	14.4	21.6#
78	0.0	7.7	11.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. -0.01 min

Lab File: VL032895.D

Acq: 5 Dec 2018 3:16

Instrument :

MSVOA_L

ClientSampleId :

MMSV-08DL

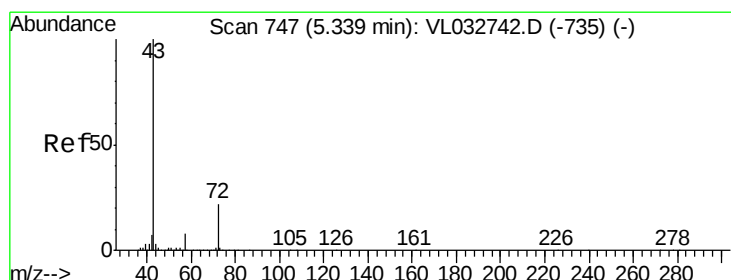
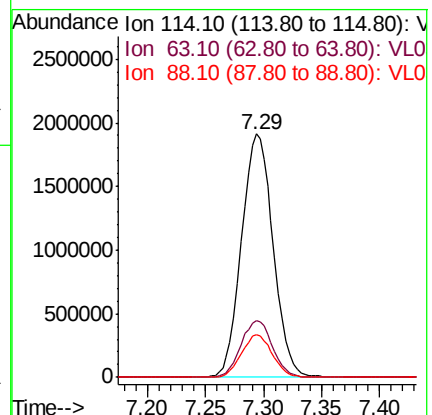
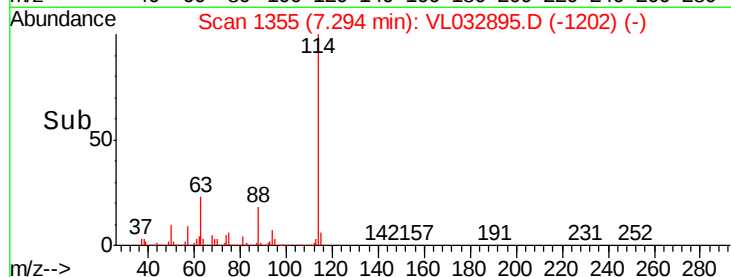
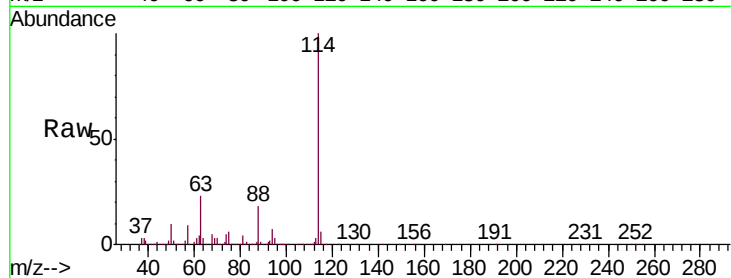
Tgt Ion:114 Resp: 3604533

Ion Ratio Lower Upper

114 100

63 23.4 20.9 31.3

88 17.2 14.4 21.6



#34

2-Butanone

Concen: 10.950 ppbv

RT: 5.33 min Scan# 744

Delta R.T. -0.01 min

Lab File: VL032895.D

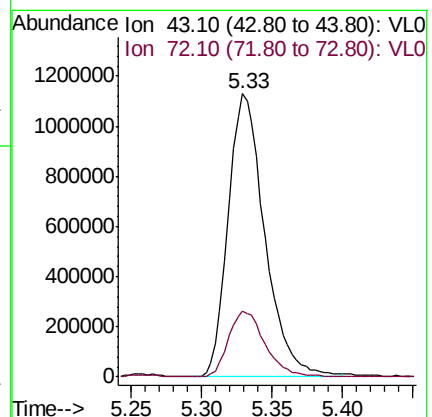
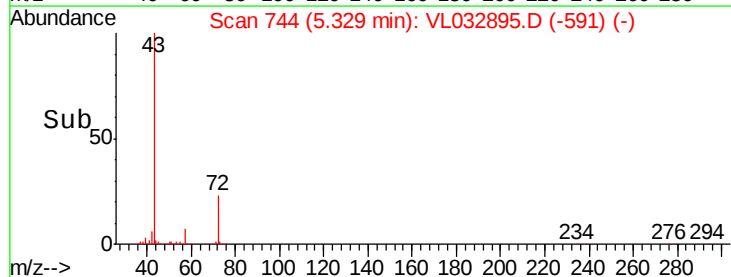
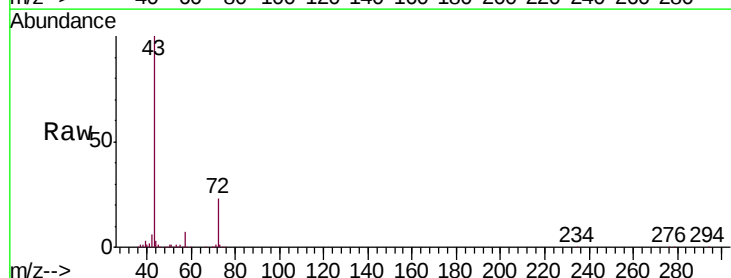
Acq: 5 Dec 2018 3:16

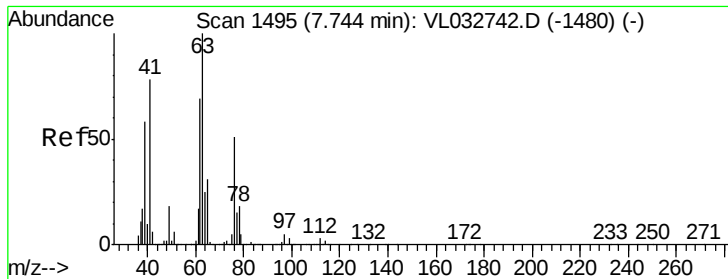
Tgt Ion: 43 Resp: 2047154

Ion Ratio Lower Upper

43 100

72 23.7 18.4 27.6

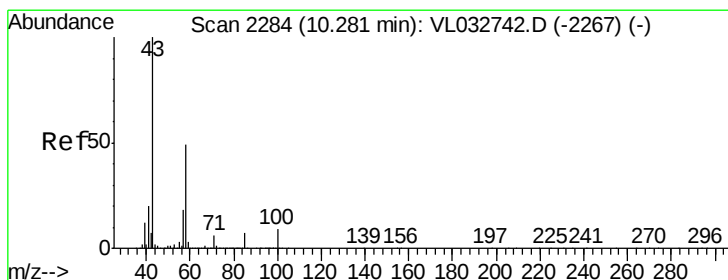
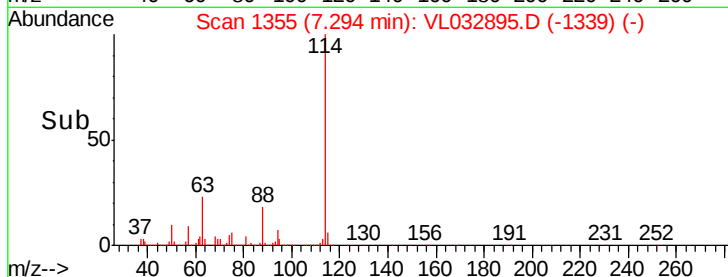
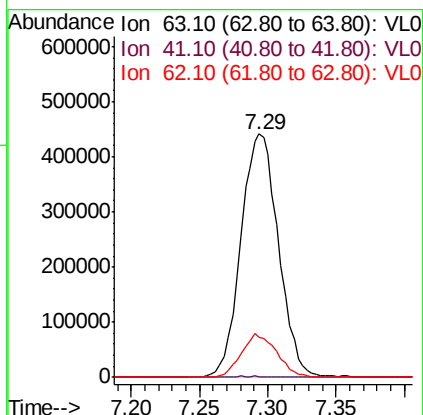
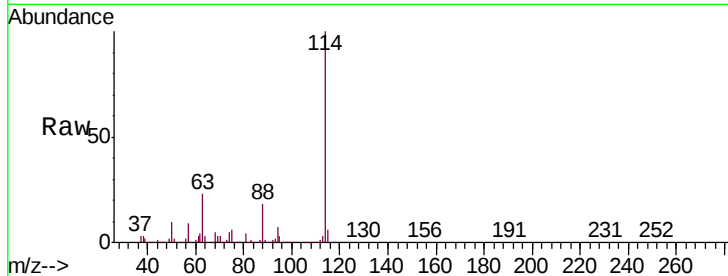




#39
 1,2-Dichloropropane
 Concen: 7.684 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.45 min
 Lab File: VL032895.D
 Acq: 5 Dec 2018 3:16

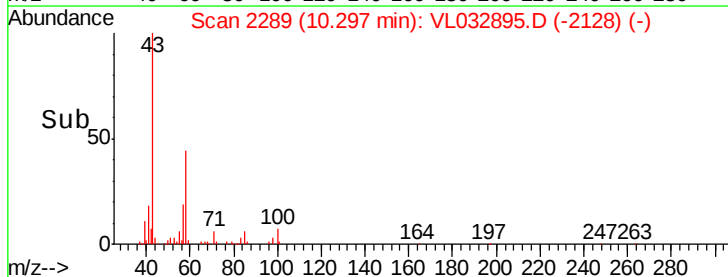
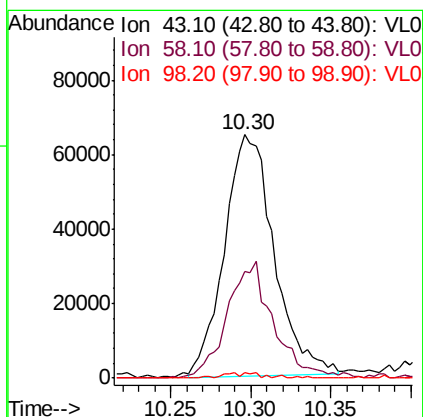
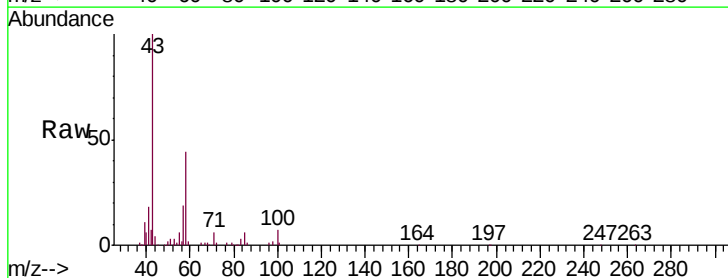
Instrument :
 MSVOA_L
 ClientSampleId :
 MMSV-08DL

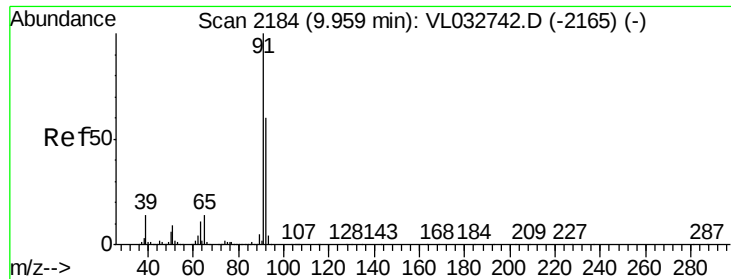
Tgt Ion: 63 Resp: 840386
 Ion Ratio Lower Upper
 63 100
 41 0.3 62.0 93.0#
 62 16.5 55.4 83.2#



#51
 2-Hexanone
 Concen: 0.731 ppbv
 RT: 10.30 min Scan# 2289
 Delta R.T. 0.02 min
 Lab File: VL032895.D
 Acq: 5 Dec 2018 3:16

Tgt Ion: 43 Resp: 137444
 Ion Ratio Lower Upper
 43 100
 58 45.1 38.9 58.3
 98 1.8 0.2 0.4#





#53

Toluene

Concen: 0.033 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.02 min

Lab File: VL032895.D

Acq: 5 Dec 2018 3:16

Instrument :

MSVOA_L

ClientSampleId :

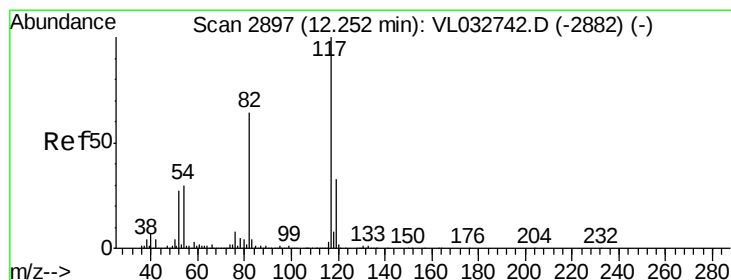
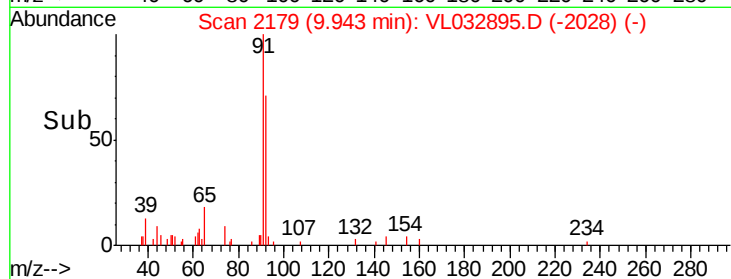
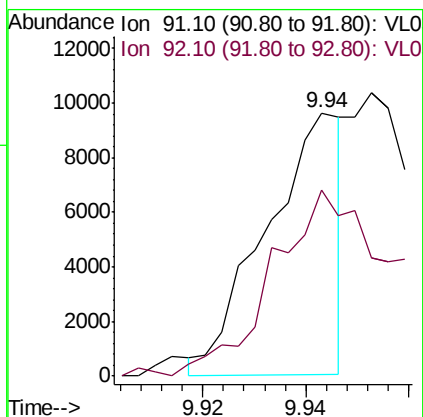
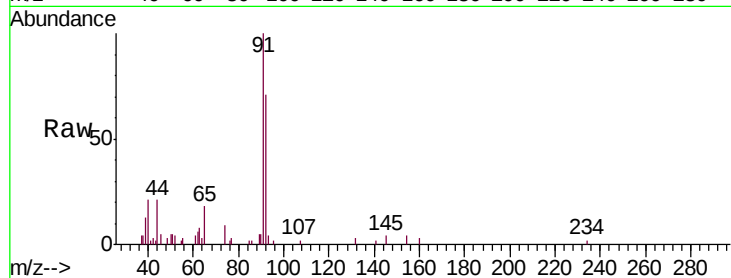
MMSV-08DL

Tgt Ion: 91 Resp: 9757

Ion Ratio Lower Upper

91 100

92 135.8 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: VL032895.D

Acq: 5 Dec 2018 3:16

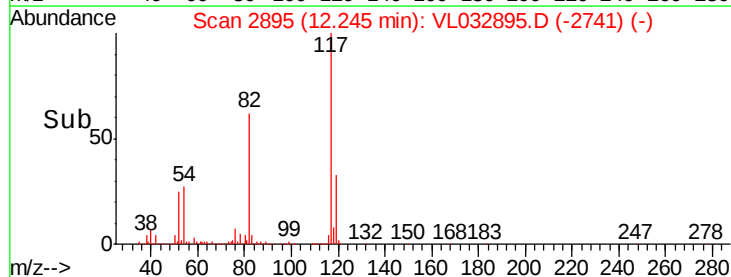
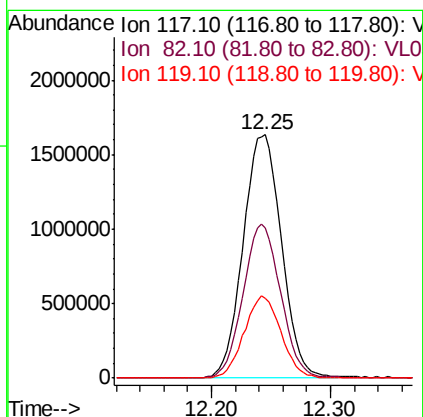
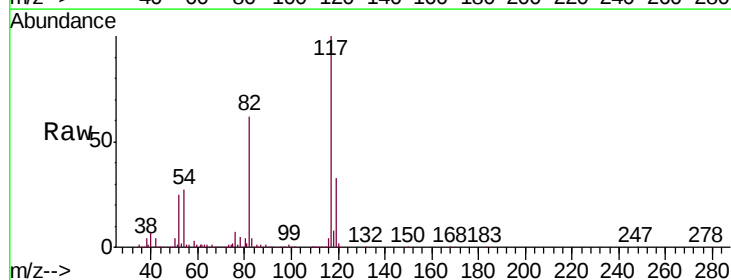
Tgt Ion: 117 Resp: 3656276

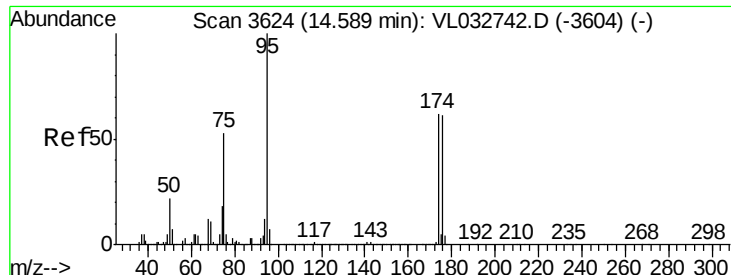
Ion Ratio Lower Upper

117 100

82 62.1 51.0 76.6

119 32.5 28.0 42.0





#68

1-Bromo-4-Fluorobenzene

Concen: 9.706 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.01 min

Lab File: VL032895.D

Acq: 5 Dec 2018 3:16

Instrument :

MSVOA_L

ClientSampleId :

MMSV-08DL

Tgt Ion: 95 Resp: 2654277

Ion Ratio Lower Upper

95 100

174 66.8 50.7 76.1

175 5.0 3.8 5.6

