

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL081618\
 Data File : VL032402.D
 Acq On : 17 Aug 2018 10:44
 Operator : SY/AP
 Sample : J4457-05DL2 400X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS09-MIVIDL2

Quant Time: Aug 17 23:21:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018
 QLast Update : Wed Aug 15 14:58:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.81	49	1806243	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.35	114	3601391	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.30	117	3419398	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.64	95	2586002	9.91	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.10%

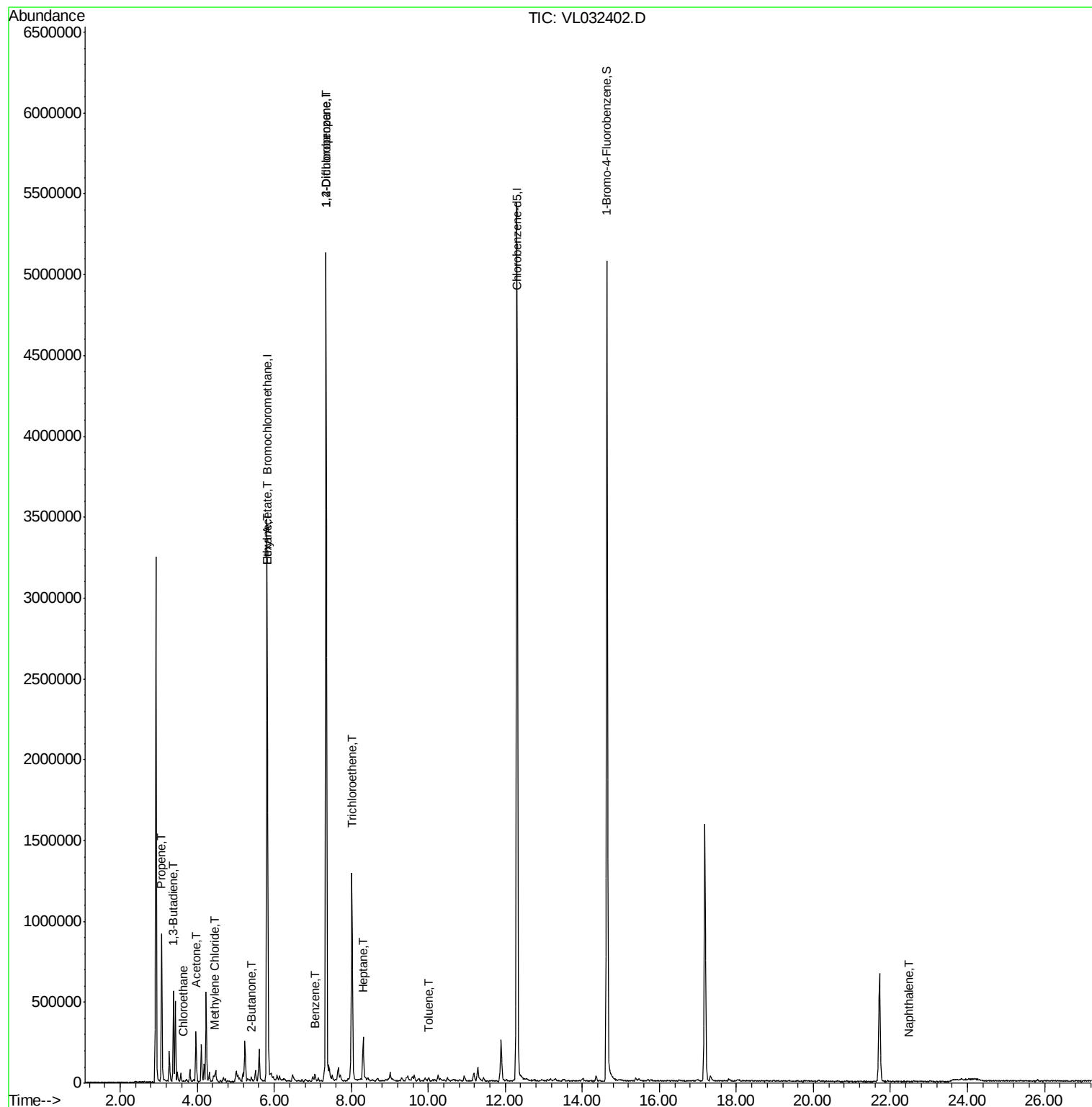
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.11	85	217	Below Cal	#	62
7) Chloroethane	3.64	64	4846	0.146	ppbv #	76
9) Propene	3.07	41	362552	5.063	ppbv	93
10) Heptane	8.31	43	89446	0.415	ppbv	93
15) Acetone	3.97	43	167830	0.978	ppbv #	88
16) 1,3-Butadiene	3.38	39	151012	2.131	ppbv #	11
20) Methylene Chloride	4.45	84	3058	0.047	ppbv #	93
25) Ethyl Acetate	5.83	43	125635	0.342	ppbv #	79
26) Hexane	5.83	57	173218	1.057	ppbv #	39
34) 2-Butanone	5.41	43	15346	0.063	ppbv #	53
36) Benzene	7.06	78	29382	0.096	ppbv #	90
38) Trichloroethene	8.02	130	389183	3.634	ppbv	94
39) 1,2-Dichloropropane	7.35	63	997450	7.821	ppbv #	25
53) Toluene	10.01	91	16581	0.050	ppbv	98
79) Naphthalene	22.48	128	209	0.328	ppbv #	69

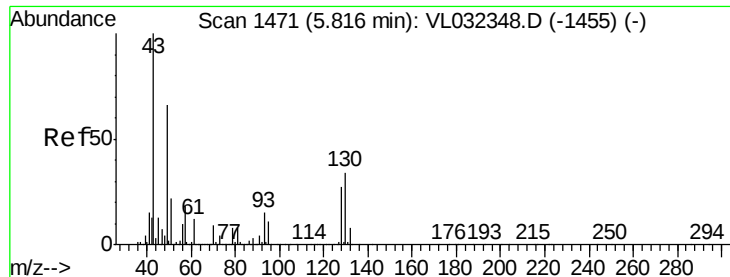
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Aug 15 14:58:02 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.81 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VL032402.D

Acq: 17 Aug 2018 10:44

Instrument :

MSVOA_L

ClientSampleId :

SS09-MIVIDL2

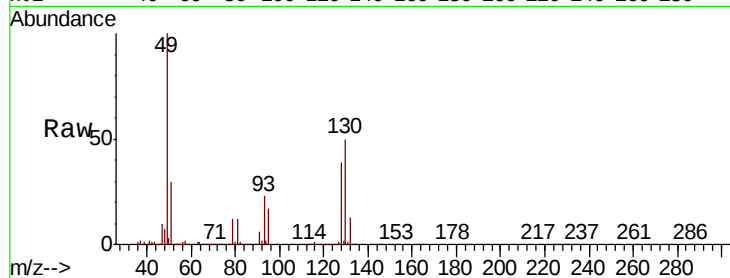
Tgt Ion: 49 Resp: 1806243

Ion Ratio Lower Upper

49 100

128 40.7 20.5 61.6

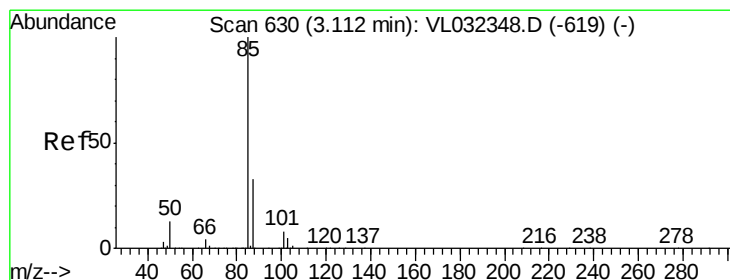
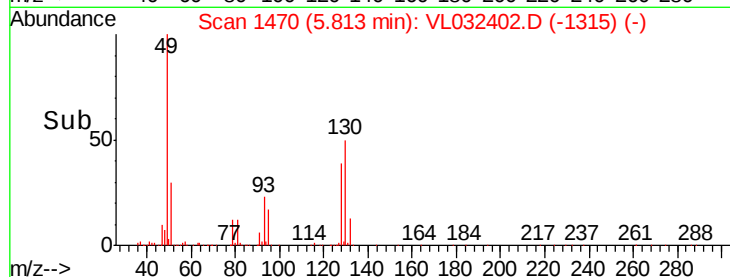
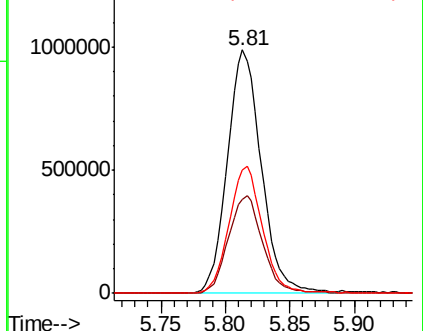
130 51.7 26.2 78.5



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: Below Cal

RT: 3.11 min Scan# 628

Delta R.T. -0.01 min

Lab File: VL032402.D

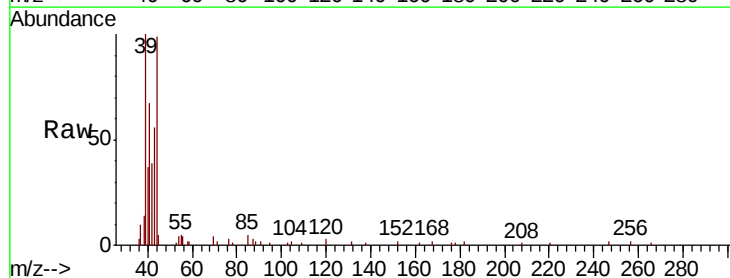
Acq: 17 Aug 2018 10:44

Tgt Ion: 85 Resp: 217

Ion Ratio Lower Upper

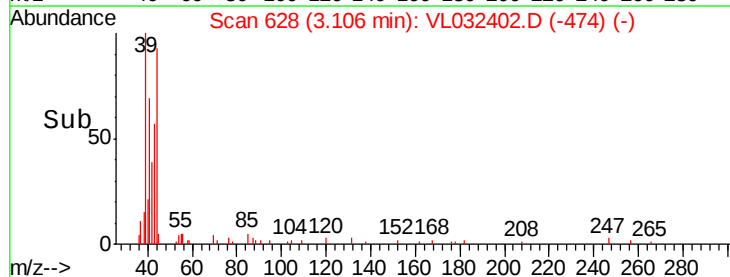
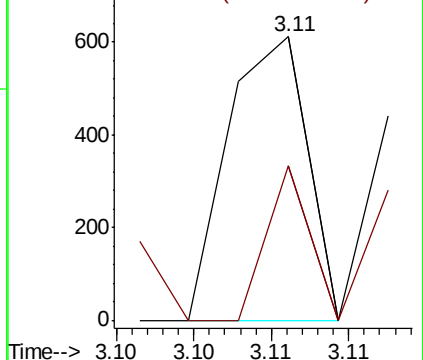
85 100

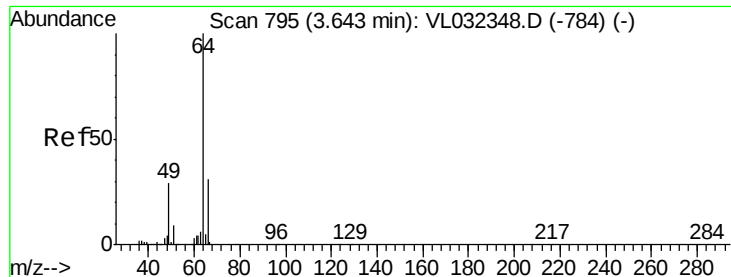
87 54.4 26.3 39.5#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#7

Chloroethane

Concen: 0.146 ppbv

RT: 3.64 min Scan# 795

Delta R.T. 0.00 min

Lab File: VL032402.D

Acq: 17 Aug 2018 10:44

Instrument :

MSVOA_L

ClientSampleId :

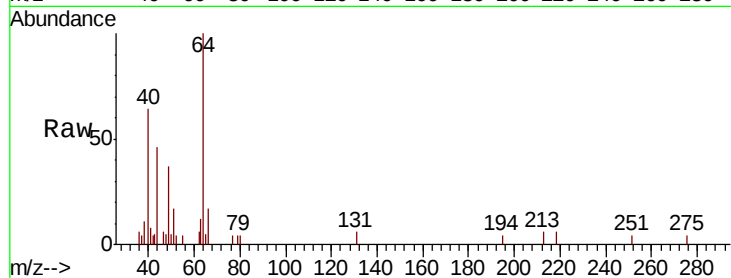
SS09-MIVIDL2

Tgt Ion: 64 Resp: 4846

Ion Ratio Lower Upper

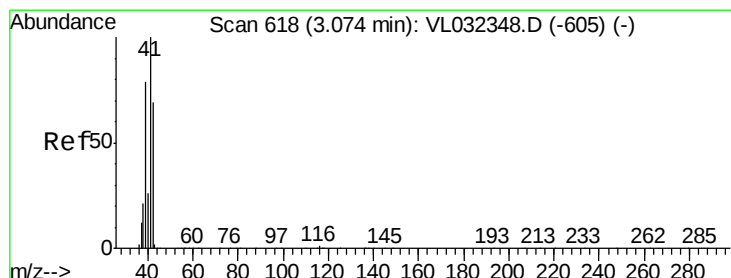
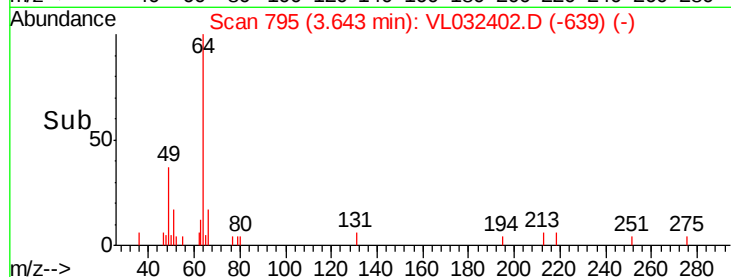
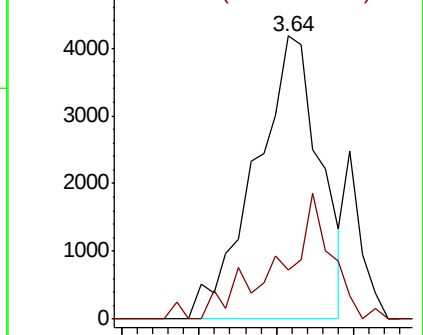
64 100

66 17.5 24.6 36.8#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#9

Propene

Concen: 5.063 ppbv

RT: 3.07 min Scan# 618

Delta R.T. 0.00 min

Lab File: VL032402.D

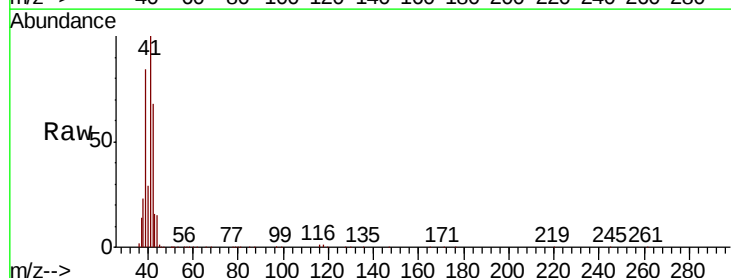
Acq: 17 Aug 2018 10:44

Tgt Ion: 41 Resp: 362552

Ion Ratio Lower Upper

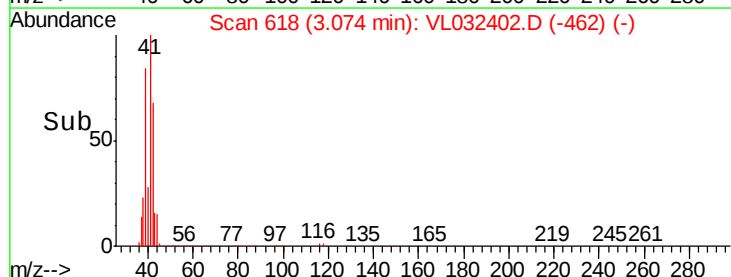
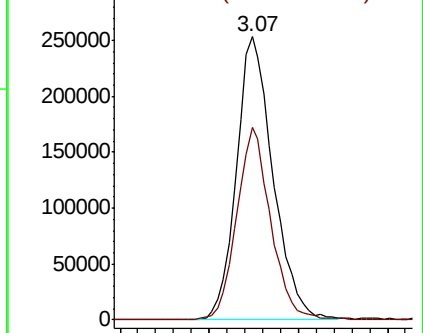
41 100

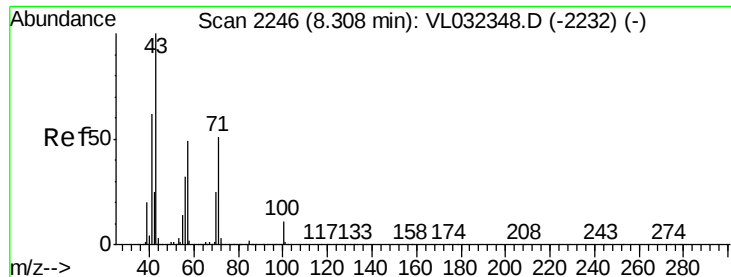
42 64.0 55.9 83.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.415 ppbv

RT: 8.31 min Scan# 2247

Delta R.T. 0.00 min

Lab File: VL032402.D

Acq: 17 Aug 2018 10:44

Instrument :

MSVOA_L

ClientSampleId :

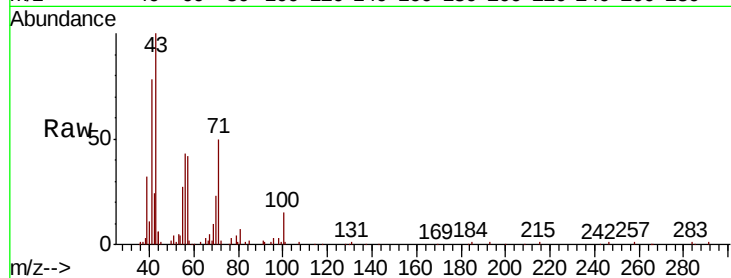
SS09-MIVIDL2

Tgt Ion: 43 Resp: 89446

Ion Ratio Lower Upper

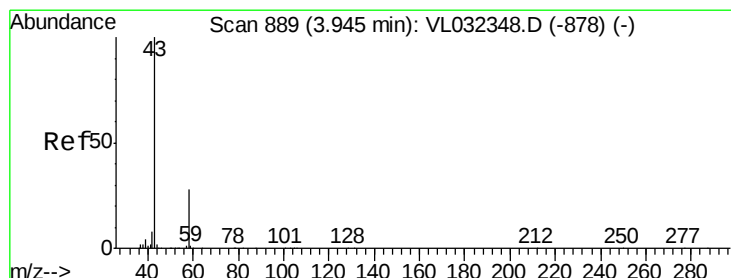
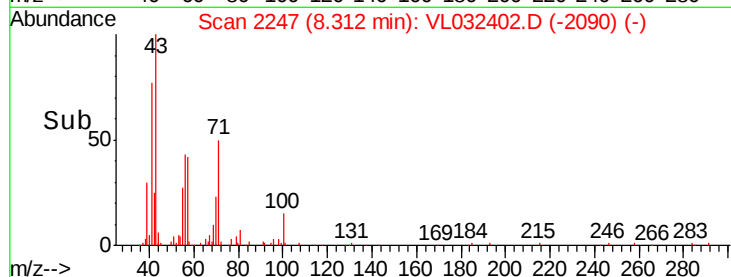
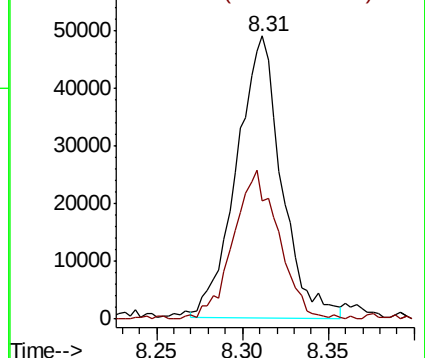
43 100

57 54.4 39.5 59.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#15

Acetone

Concen: 0.978 ppbv

RT: 3.97 min Scan# 896

Delta R.T. 0.02 min

Lab File: VL032402.D

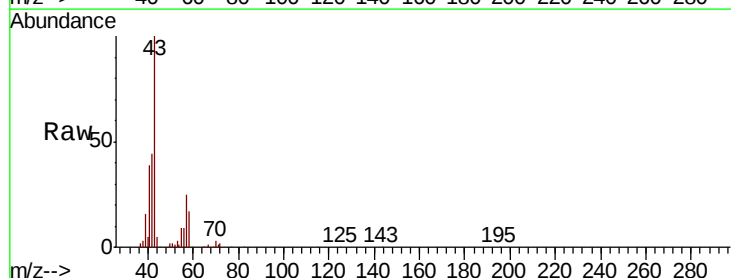
Acq: 17 Aug 2018 10:44

Tgt Ion: 43 Resp: 167830

Ion Ratio Lower Upper

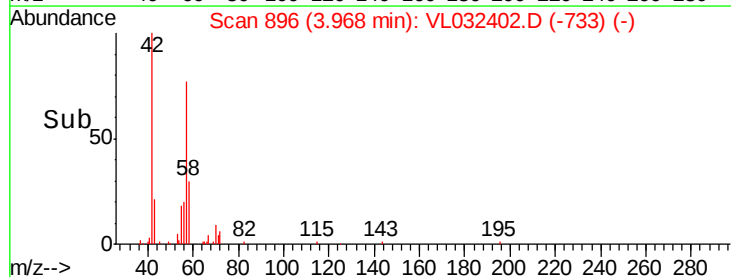
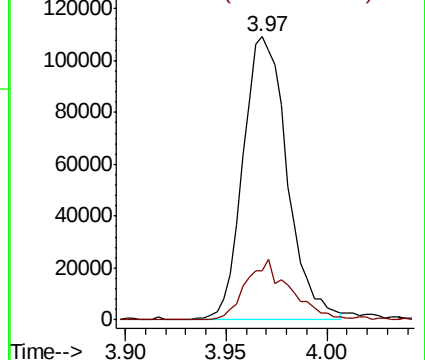
43 100

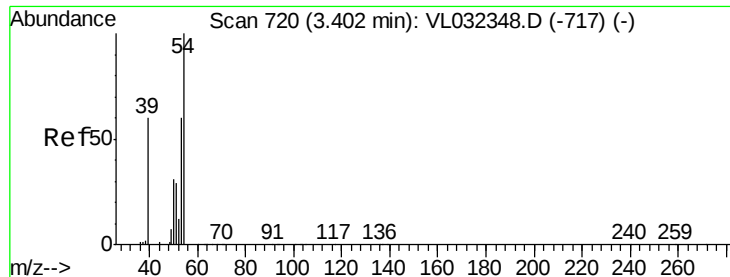
58 21.8 22.4 33.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

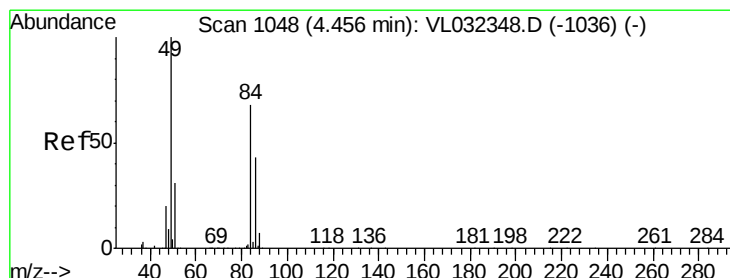
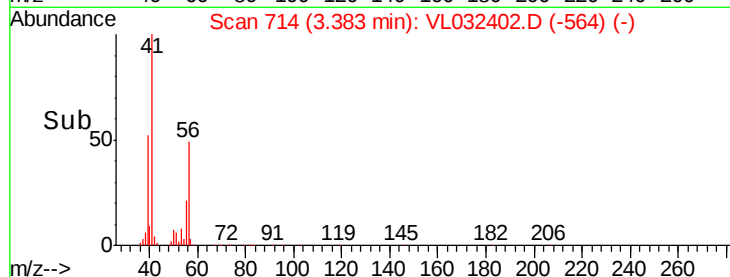
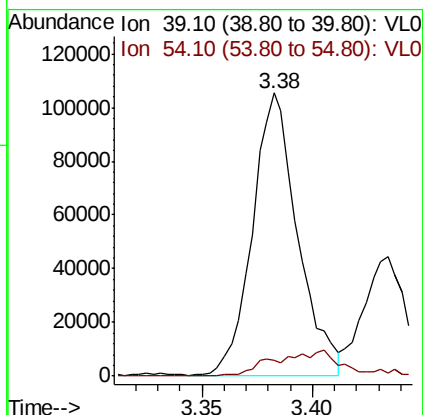
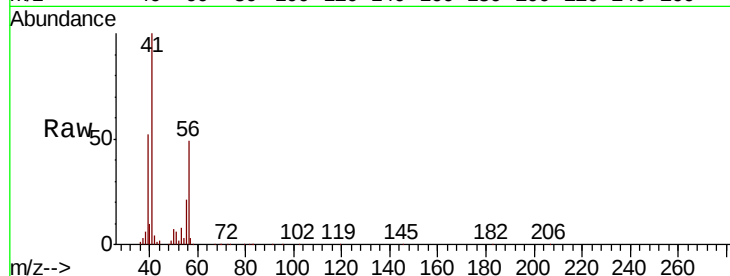




#16
 1,3-Butadiene
 Concen: 2.131 ppbv
 RT: 3.38 min Scan# 714
 Delta R.T. -0.02 min
 Lab File: VL032402.D
 Acq: 17 Aug 2018 10:44

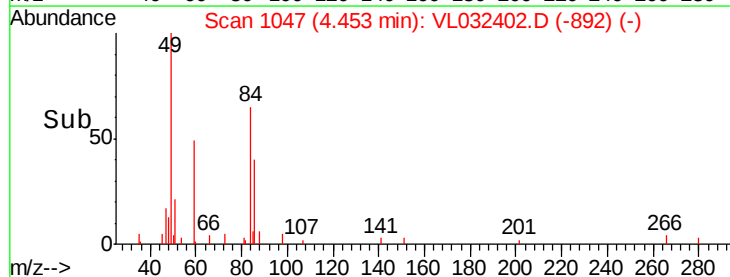
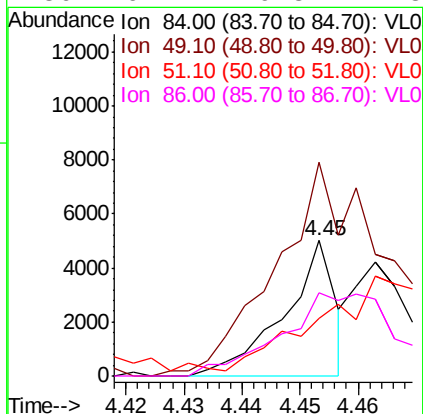
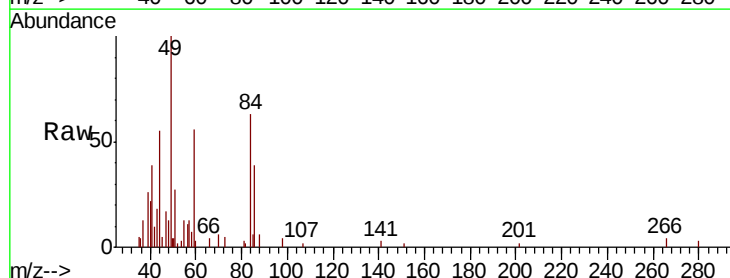
Instrument :
 MSVOA_L
 ClientSampleId :
 SS09-MIVIDL2

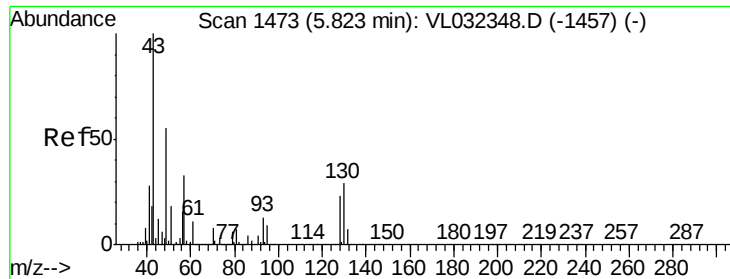
Tgt Ion: 39 Resp: 151012
 Ion Ratio Lower Upper
 39 100
 54 14.2 85.5 128.3#



#20
 Methylene Chloride
 Concen: 0.047 ppbv
 RT: 4.45 min Scan# 1047
 Delta R.T. -0.00 min
 Lab File: VL032402.D
 Acq: 17 Aug 2018 10:44

Tgt Ion: 84 Resp: 3058
 Ion Ratio Lower Upper
 84 100
 49 153.7 117.3 175.9
 51 33.0 36.6 55.0#
 86 61.4 49.8 74.8

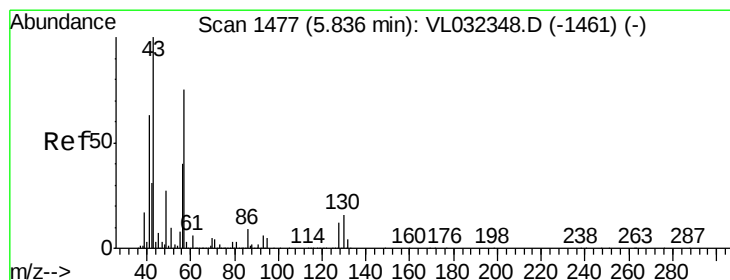
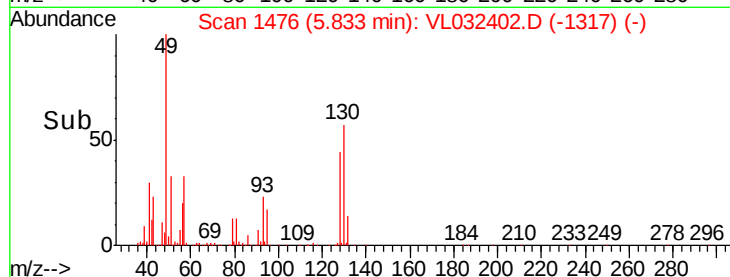
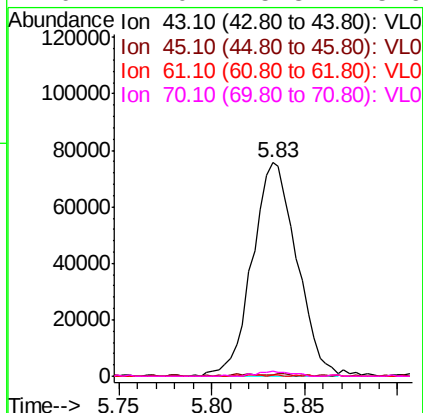
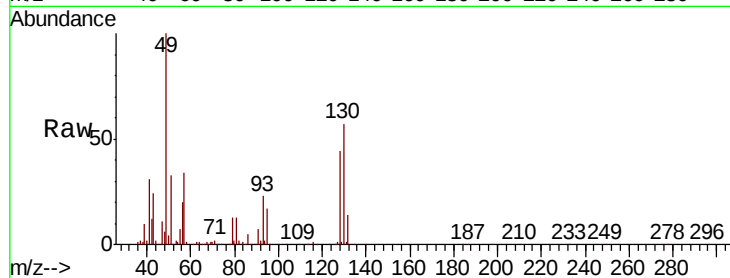




#25
Ethyl Acetate
Concen: 0.342 ppbv
RT: 5.83 min Scan# 1476
Delta R.T. 0.01 min
Lab File: VL032402.D
Acq: 17 Aug 2018 10:44

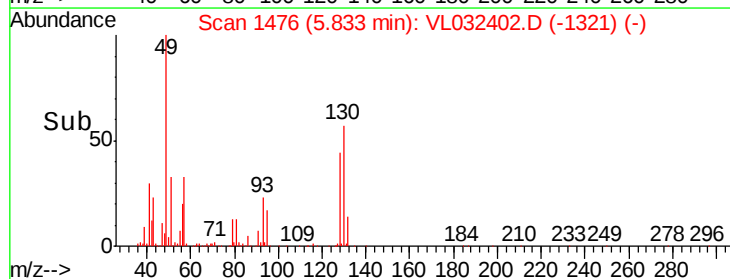
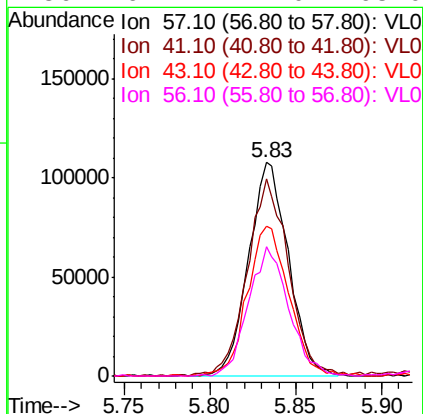
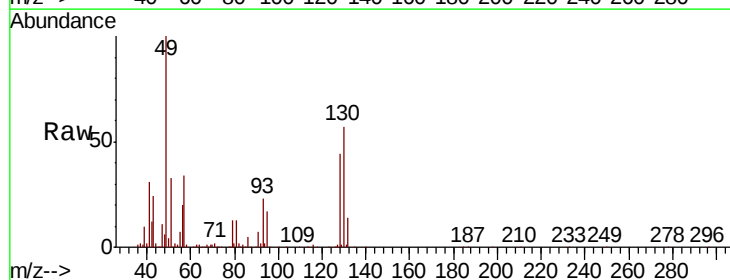
Instrument :
MSVOA_L
ClientSampleId :
SS09-MIVIDL2

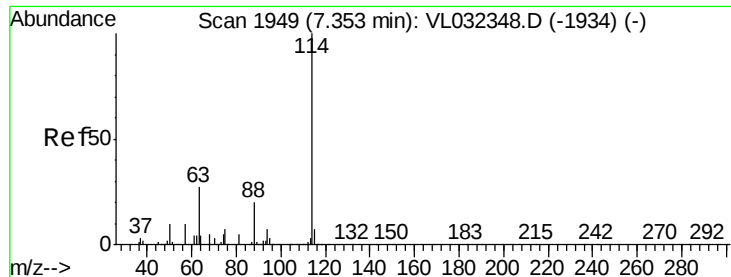
Tgt Ion:	43	Resp:	125635
Ion	Ratio	Lower	Upper
43	100		
45	2.1	7.9	11.9#
61	0.3	7.4	11.2#
70	2.0	5.8	8.6#



#26
Hexane
Concen: 1.057 ppbv
RT: 5.83 min Scan# 1476
Delta R.T. -0.00 min
Lab File: VL032402.D
Acq: 17 Aug 2018 10:44

Tgt Ion:	57	Resp:	173218
Ion	Ratio	Lower	Upper
57	100		
41	96.4	68.0	102.0
43	73.5	175.3	262.9#
56	61.4	42.0	63.0

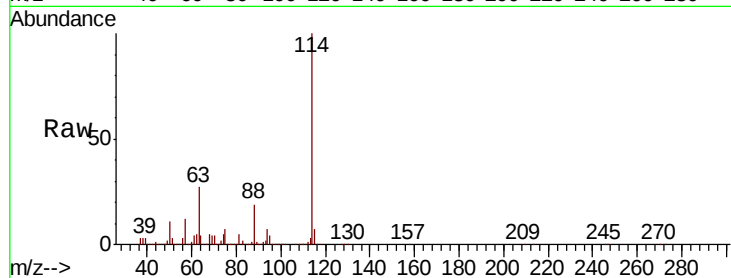




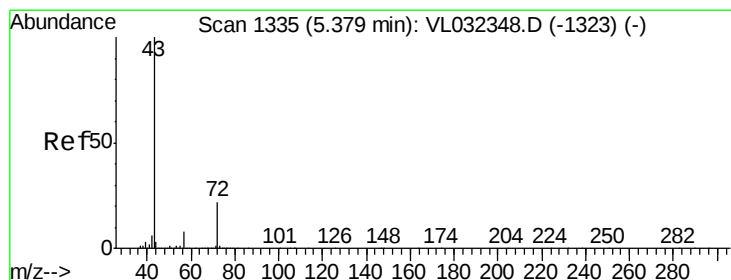
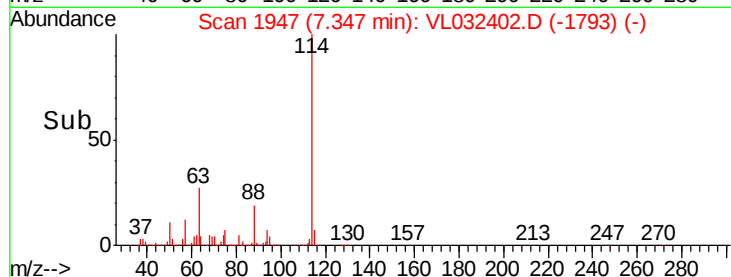
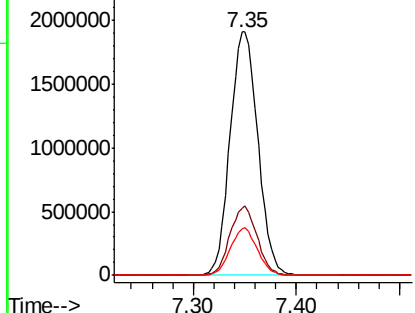
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.35 min Scan# 1947
 Delta R.T. -0.01 min
 Lab File: VL032402.D
 Acq: 17 Aug 2018 10:44

Instrument :
 MSVOA_L
 ClientSampleId :
 SS09-MIVIDL2

Tgt Ion:114 Resp: 3601391
 Ion Ratio Lower Upper
 114 100
 63 27.9 22.0 33.0
 88 19.0 15.3 22.9

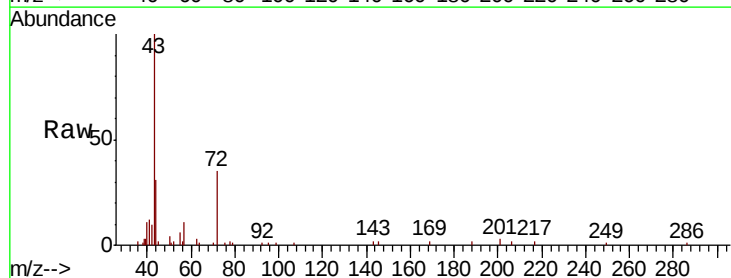


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

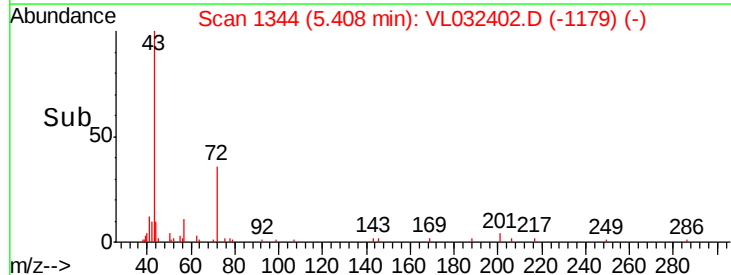
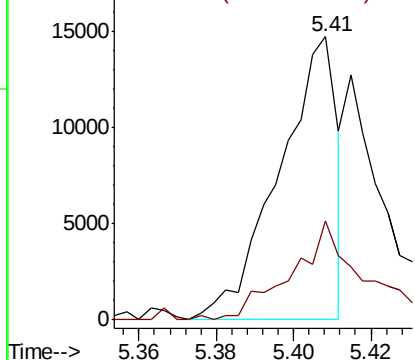


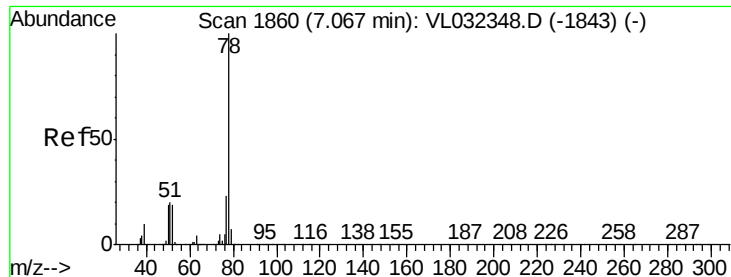
#34
 2-Butanone
 Concen: 0.063 ppbv
 RT: 5.41 min Scan# 1344
 Delta R.T. 0.03 min
 Lab File: VL032402.D
 Acq: 17 Aug 2018 10:44

Tgt Ion: 43 Resp: 15346
 Ion Ratio Lower Upper
 43 100
 72 45.1 17.9 26.9#



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





#36

Benzene

Concen: 0.096 ppbv

RT: 7.06 min Scan# 1858

Delta R.T. -0.01 min

Lab File: VL032402.D

Acq: 17 Aug 2018 10:44

Instrument :

MSVOA_L

ClientSampleId :

SS09-MIVIDL2

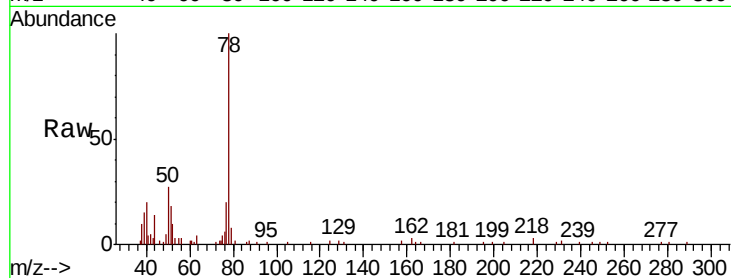
Tgt Ion: 78 Resp: 29382

Ion Ratio Lower Upper

78 100

77 19.5 18.0 27.0

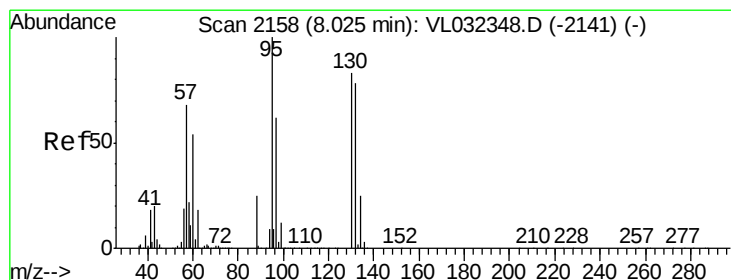
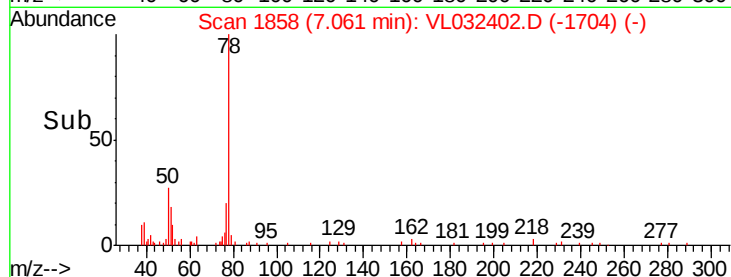
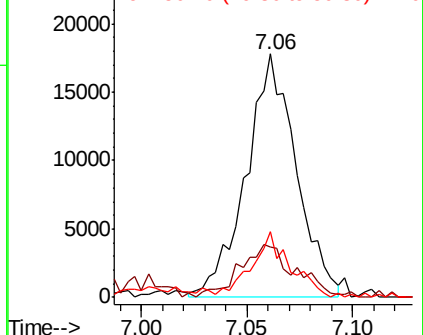
50 25.0 15.1 22.7#



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: 3.634 ppbv

RT: 8.02 min Scan# 2157

Delta R.T. -0.00 min

Lab File: VL032402.D

Acq: 17 Aug 2018 10:44

Tgt Ion: 130 Resp: 389183

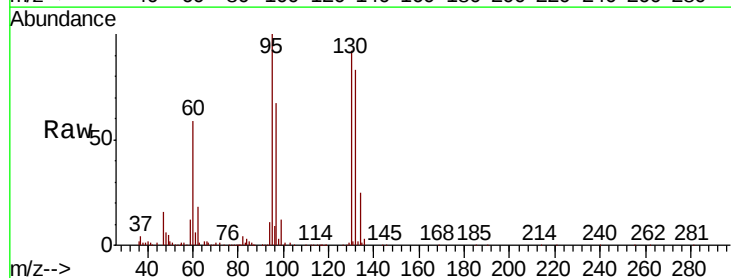
Ion Ratio Lower Upper

130 100

95 108.6 96.6 144.8

132 90.8 75.5 113.3

97 73.6 59.8 89.6

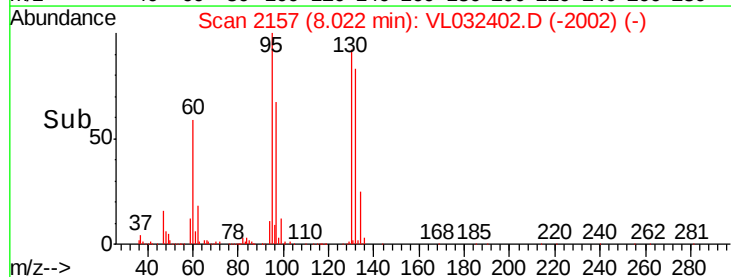
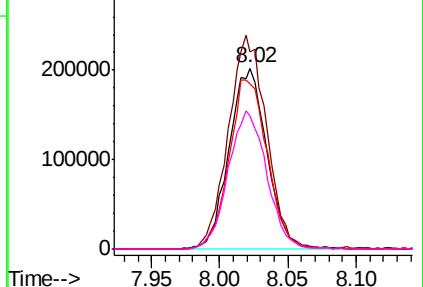


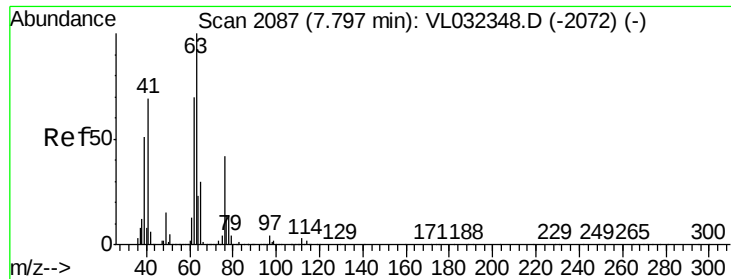
Abundance Ion 130.00 (129.70 to 130.70): V

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: 7.821 ppbv

RT: 7.35 min Scan# 1948

Delta R.T. -0.45 min

Lab File: VL032402.D

Acq: 17 Aug 2018 10:44

Instrument :

MSVOA_L

ClientSampleId :

SS09-MIVIDL2

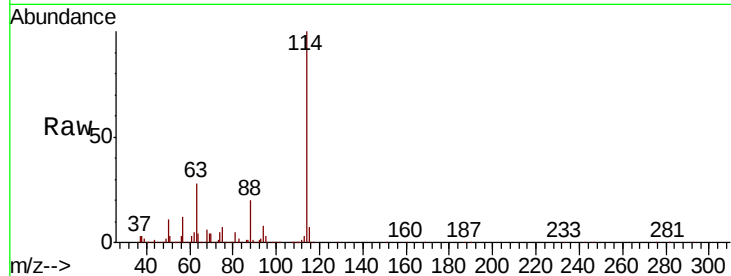
Tgt Ion: 63 Resp: 997450

Ion Ratio Lower Upper

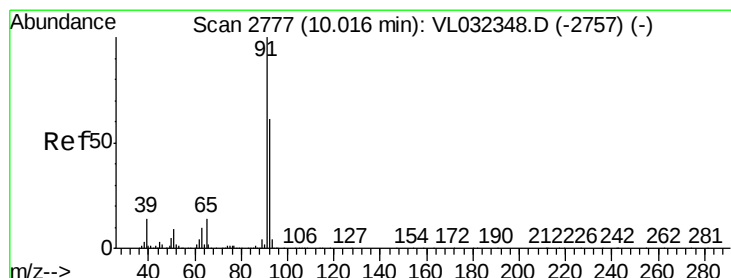
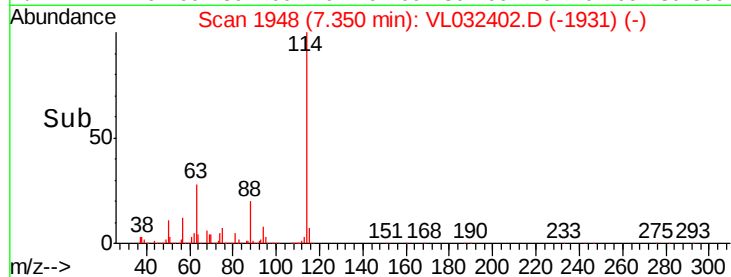
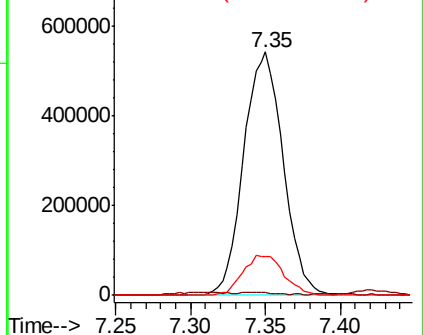
63 100

41 0.2 55.5 83.3#

62 16.0 56.3 84.5#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#53

Toluene

Concen: 0.050 ppbv

RT: 10.01 min Scan# 2775

Delta R.T. -0.01 min

Lab File: VL032402.D

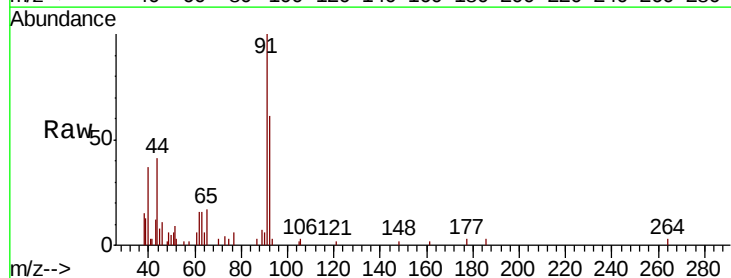
Acq: 17 Aug 2018 10:44

Tgt Ion: 91 Resp: 16581

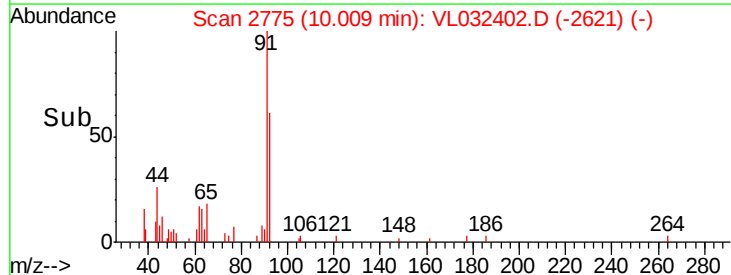
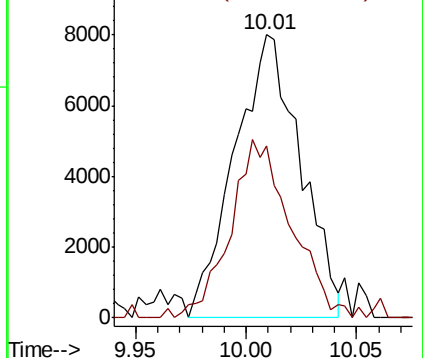
Ion Ratio Lower Upper

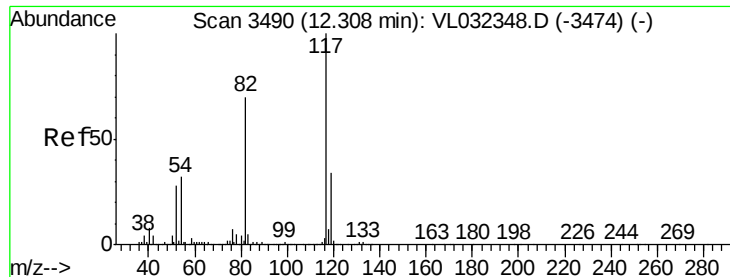
91 100

92 59.6 48.7 73.1



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0

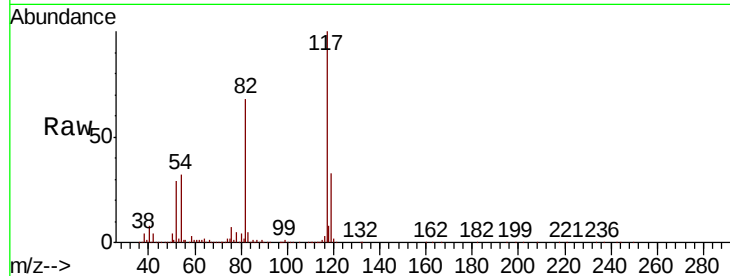




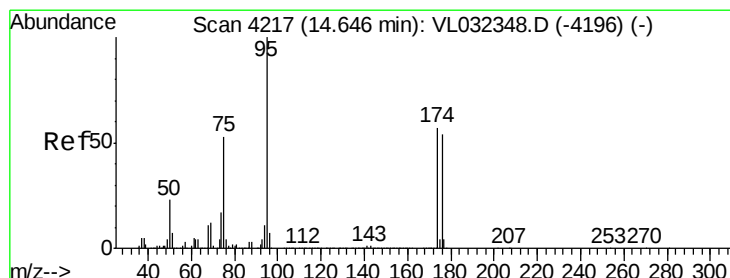
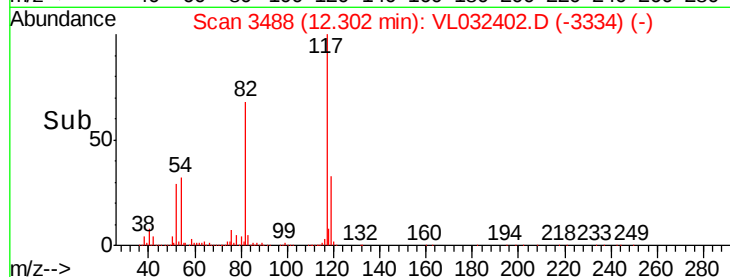
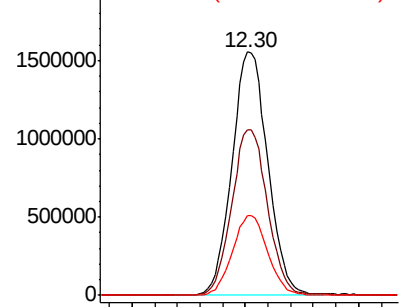
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.30 min Scan# 3488
Delta R.T. -0.01 min
Lab File: VL032402.D
Acq: 17 Aug 2018 10:44

Instrument :
MSVOA_L
ClientSampleId :
SS09-MIVIDL2

Tgt Ion: 117 Resp: 3419398
Ion Ratio Lower Upper
117 100
82 68.5 55.1 82.7
119 32.6 46.0 69.0#

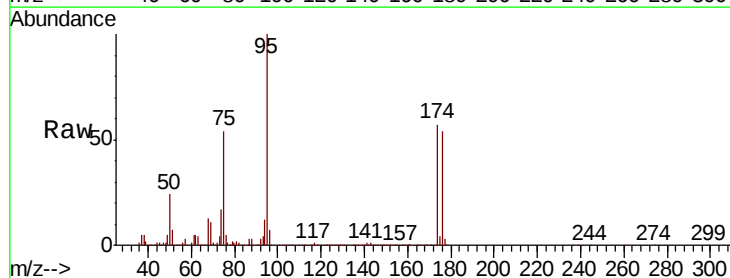


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

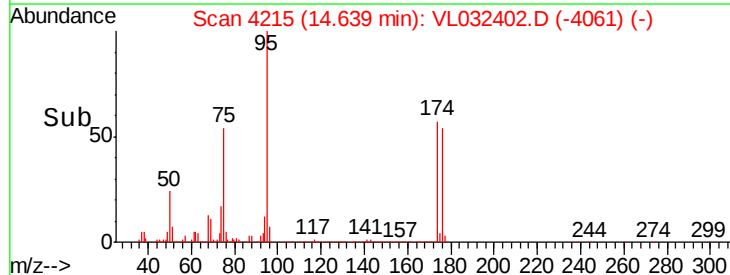
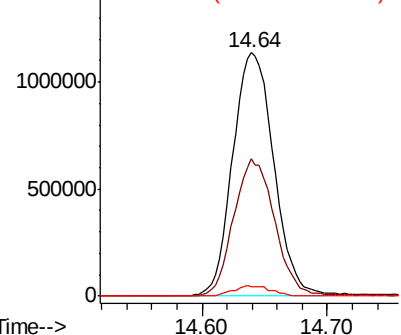


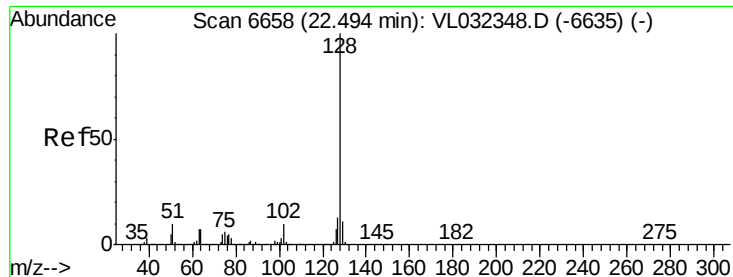
#68
1-Bromo-4-Fluorobenzene
Concen: 9.913 ppbv
RT: 14.64 min Scan# 4215
Delta R.T. -0.01 min
Lab File: VL032402.D
Acq: 17 Aug 2018 10:44

Tgt Ion: 95 Resp: 2586002
Ion Ratio Lower Upper
95 100
174 56.6 46.2 69.4
175 4.0 3.4 5.0



Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V





#79

Naphthalene

Concen: 0.328 ppbv

RT: 22.48 min Scan# 6654

Delta R.T. -0.01 min

Lab File: VL032402.D

Acq: 17 Aug 2018 10:44

Instrument :

MSVOA_L

ClientSampleId :

SS09-MIVIDL2

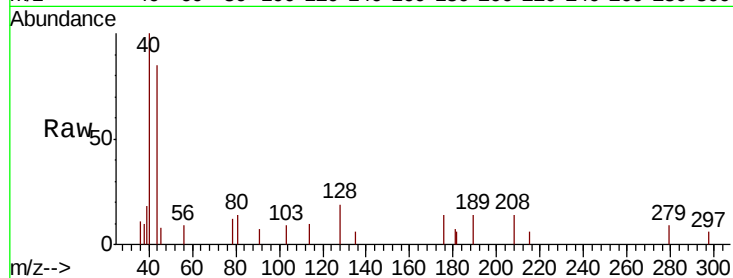
Tgt Ion:128 Resp: 209

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.6 13.0#



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

