

Data File : VL032389.D
Acq On : 16 Aug 2018 23:04
Operator : SY/AP
Sample : J4457-07DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG07-MIVIDL

Quant Time: Aug 17 03:20:51 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed 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	1830245	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.35	114	3454840	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.30	117	3527531	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.64	95	2713636	10.08	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.80%

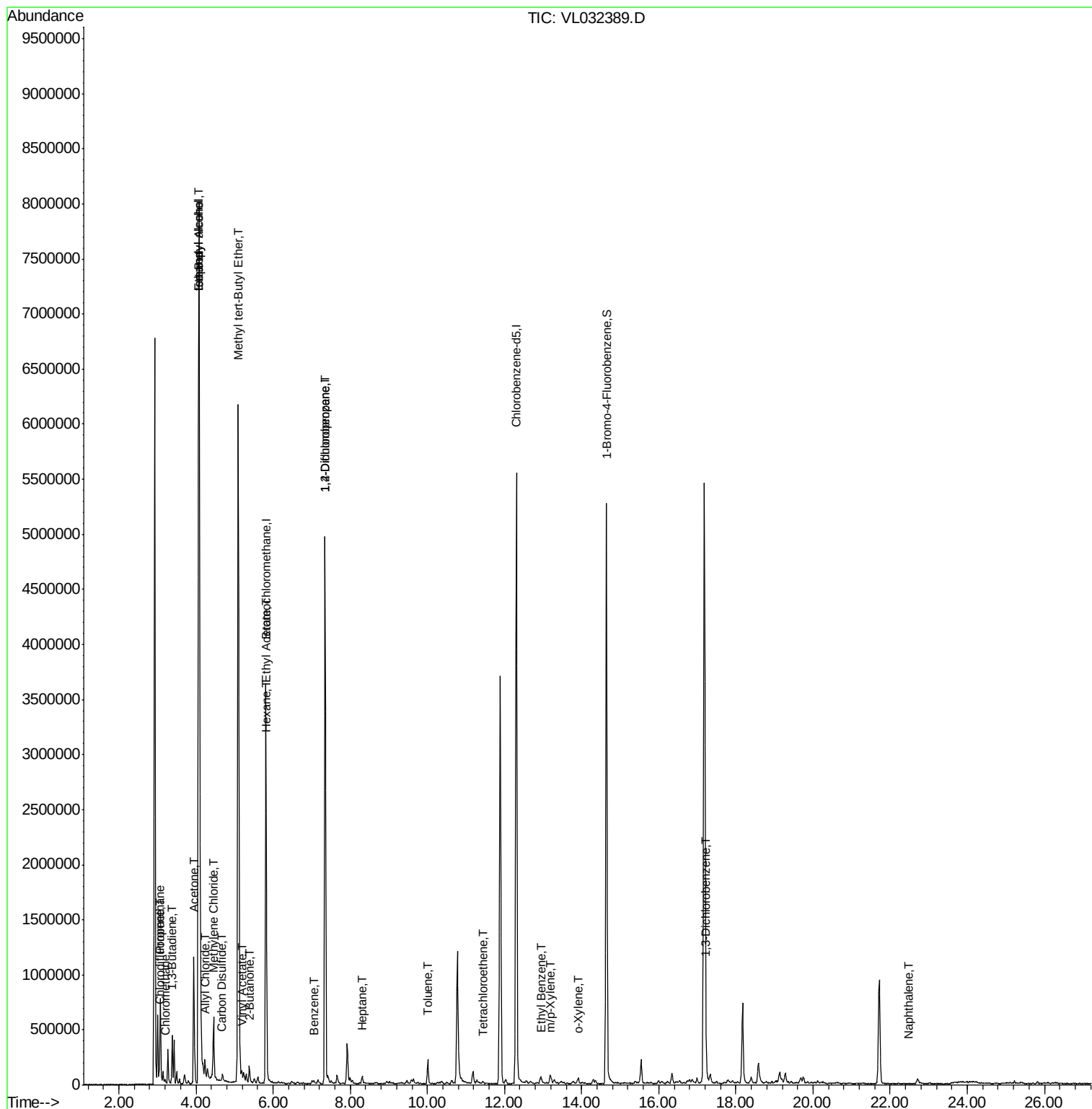
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.06	85	729	Below Cal	92
3) Chlorodifluoromethane	3.05	51	6841	0.040 ppbv	93
4) Chloromethane	3.21	50	9864	0.098 ppbv #	75
9) Propene	3.07	41	298872	4.119 ppbv	91
10) Heptane	8.31	43	23250	0.106 ppbv	88
13) Ethanol	4.07	45	13357367	716.741 ppbv #	36
15) Acetone	3.94	43	1168971	6.722 ppbv	99
16) 1,3-Butadiene	3.38	39	114943	1.601 ppbv #	14
17) tert-Butyl alcohol	4.07	59	522510	17.908 ppbv	99
19) Isopropyl Alcohol	4.07	45	13357367	114.073 ppbv #	98
20) Methylene Chloride	4.45	84	184485	2.809 ppbv	87
21) Allyl Chloride	4.23	41	47204	0.430 ppbv #	23
23) Vinyl Acetate	5.19	43	24472	0.081 ppbv #	48
25) Ethyl Acetate	5.83	43	83407	0.224 ppbv #	93
26) Hexane	5.83	57	69243	0.417 ppbv #	54
27) Carbon Disulfide	4.67	76	14215	0.092 ppbv #	18
28) Methyl tert-Butyl Ether	5.09	73	82115	0.372 ppbv #	72
34) 2-Butanone	5.38	43	164674	0.700 ppbv	98
36) Benzene	7.06	78	22219	0.076 ppbv #	88
39) 1,2-Dichloropropane	7.35	63	976414	7.980 ppbv #	24
52) Tetrachloroethene	11.43	164	2652	0.031 ppbv #	16
53) Toluene	10.01	91	161491	0.503 ppbv	93
58) Ethyl Benzene	12.93	91	24767	0.058 ppbv	89
59) m/p-Xylene	13.21	91	19087	0.053 ppbv #	30
60) o-Xylene	13.92	91	23093	0.065 ppbv	92
75) 1,3-Dichlorobenzene	17.23	146	68805	0.283 ppbv	75
79) Naphthalene	22.48	128	818	0.329 ppbv #	80

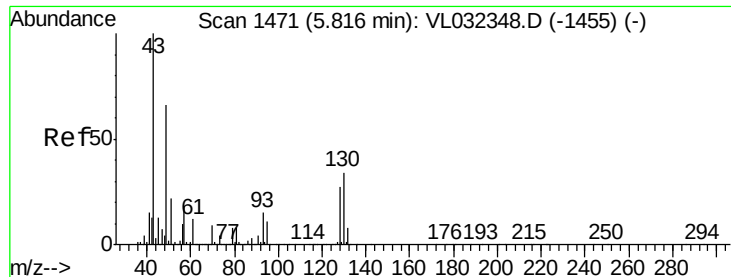
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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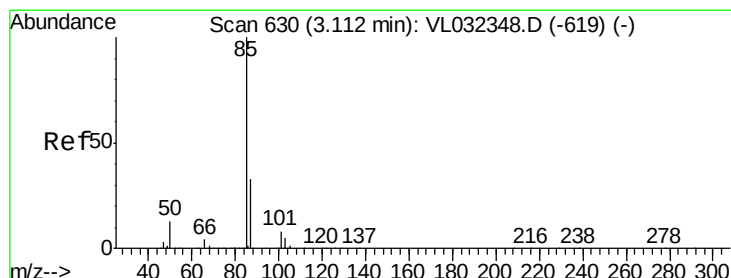
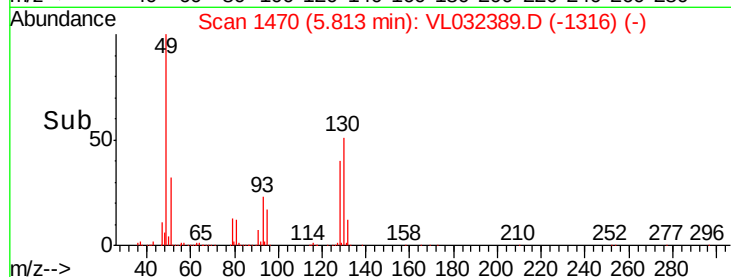
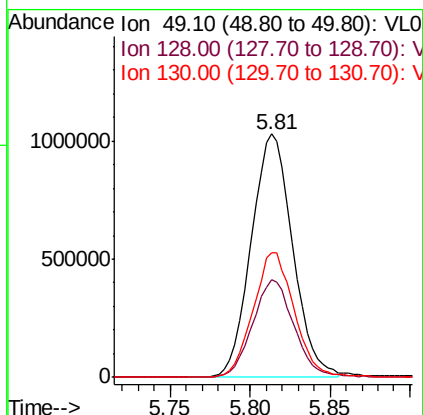
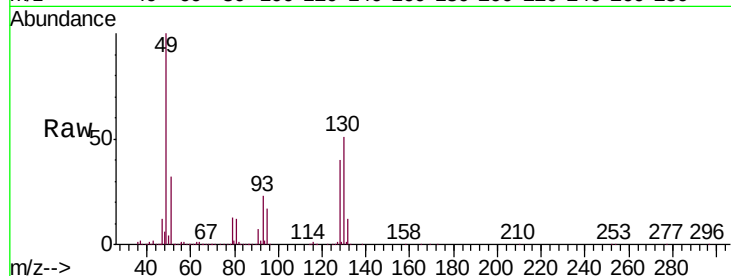




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.81 min Scan# 1470
 Delta R.T. -0.00 min
 Lab File: VL032389.D
 Acq: 16 Aug 2018 23:04

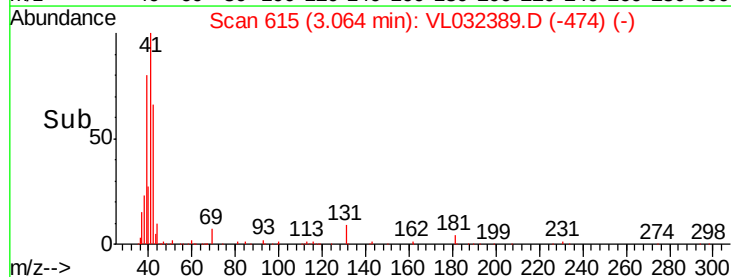
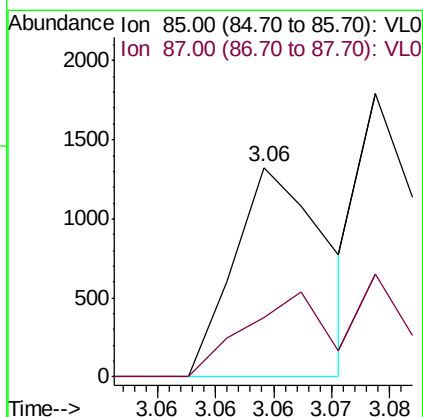
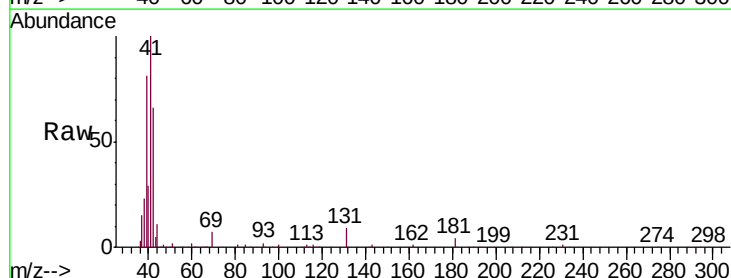
Instrument :
 MSVOA_L
 ClientSampleId :
 SG07-MIVIDL

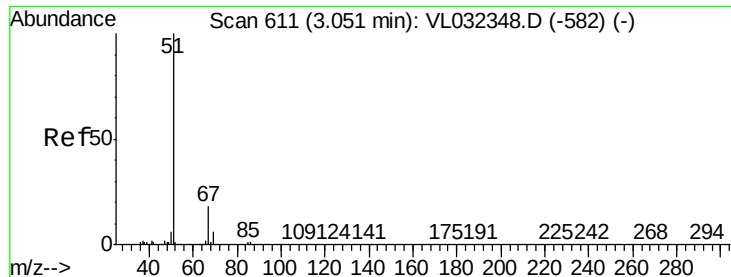
Tgt Ion: 49 Resp: 1830245
 Ion Ratio Lower Upper
 49 100
 128 40.6 20.5 61.6
 130 51.6 26.2 78.5



#2
 Dichlorodifluoromethane
 Concen: Below Cal
 RT: 3.06 min Scan# 615
 Delta R.T. -0.05 min
 Lab File: VL032389.D
 Acq: 16 Aug 2018 23:04

Tgt Ion: 85 Resp: 729
 Ion Ratio Lower Upper
 85 100
 87 28.3 26.3 39.5





#3

Chlorodifluoromethane

Concen: 0.040 ppbv

RT: 3.05 min Scan# 611

Delta R.T. -0.00 min

Lab File: VL032389.D

Acq: 16 Aug 2018 23:04

Instrument :

MSVOA_L

ClientSampleId :

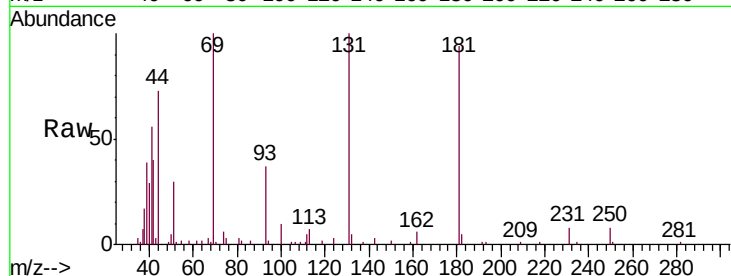
SG07-MIVIDL

Tgt Ion: 51 Resp: 6841

Ion Ratio Lower Upper

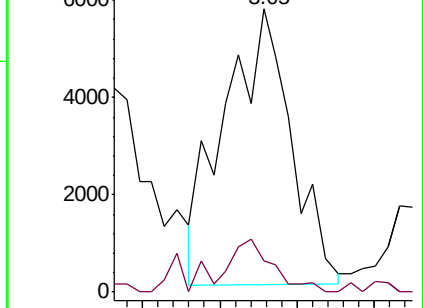
51 100

67 14.1 13.7 20.5

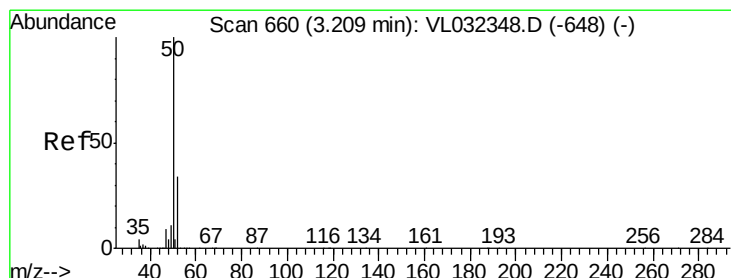
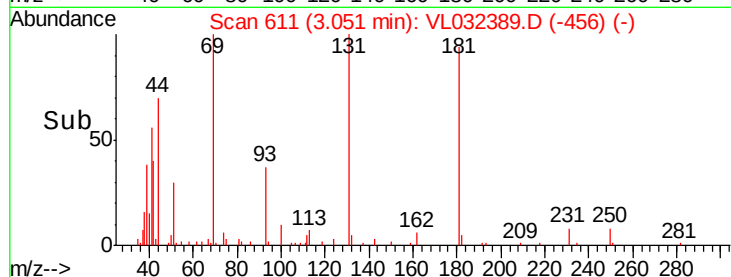


Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



Time-->



#4

Chloromethane

Concen: 0.098 ppbv

RT: 3.21 min Scan# 660

Delta R.T. -0.00 min

Lab File: VL032389.D

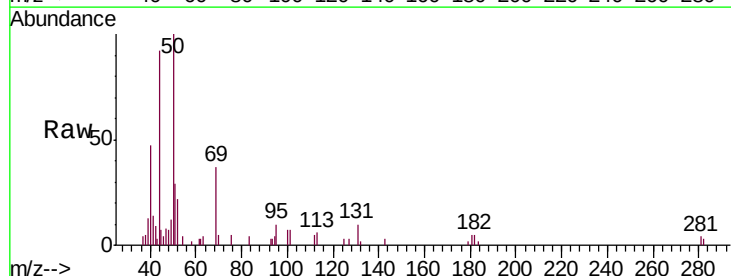
Acq: 16 Aug 2018 23:04

Tgt Ion: 50 Resp: 9864

Ion Ratio Lower Upper

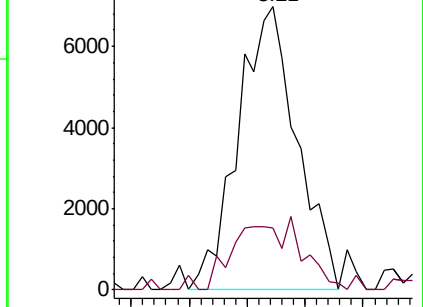
50 100

52 19.5 26.8 40.2#

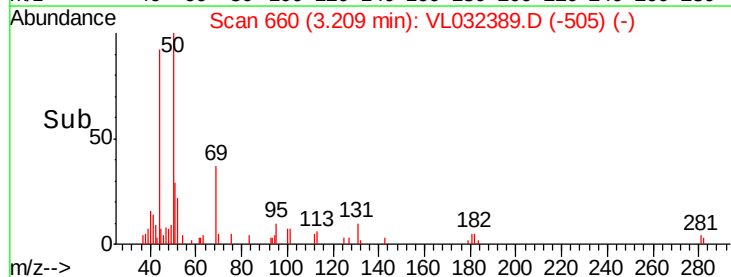


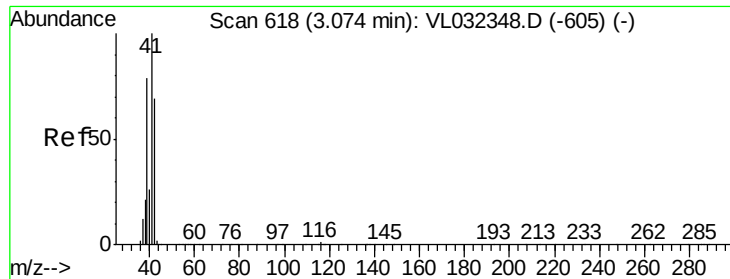
Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



Time-->





#9

Propene

Concen: 4.119 ppbv

RT: 3.07 min Scan# 617

Delta R.T. -0.00 min

Lab File: VL032389.D

Acq: 16 Aug 2018 23:04

Instrument :

MSVOA_L

ClientSampleId :

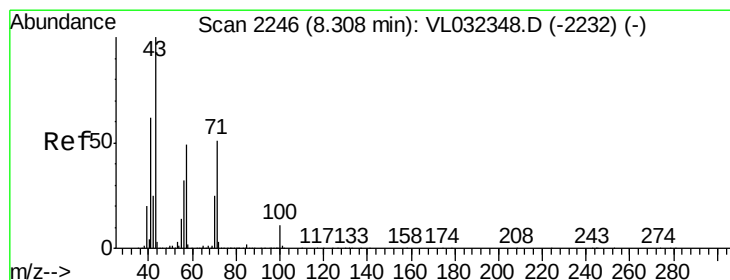
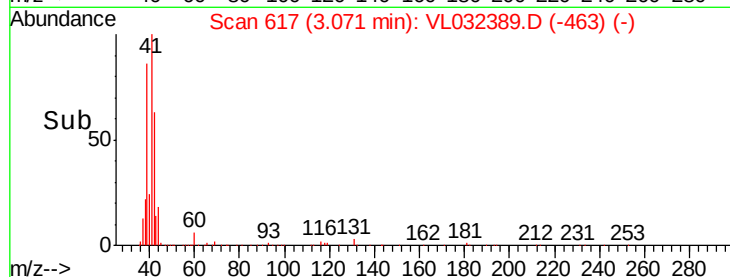
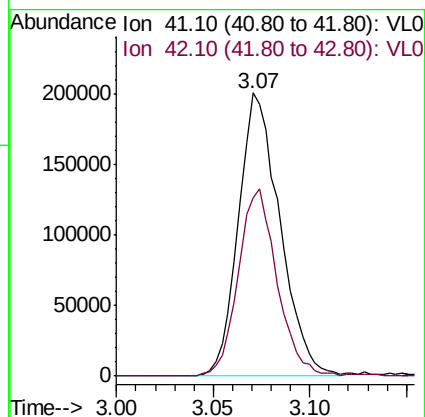
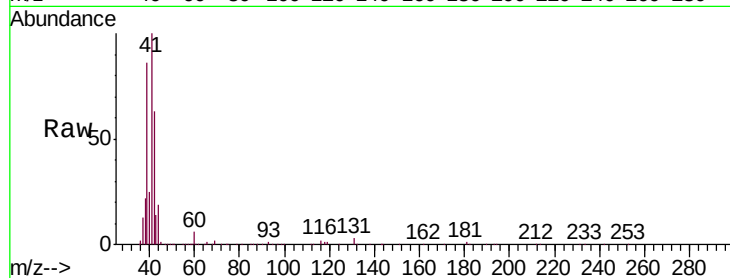
SG07-MIVIDL

Tgt Ion: 41 Resp: 298872

Ion Ratio Lower Upper

41 100

42 62.3 55.9 83.9



#10

Heptane

Concen: 0.106 ppbv

RT: 8.31 min Scan# 2245

Delta R.T. -0.00 min

Lab File: VL032389.D

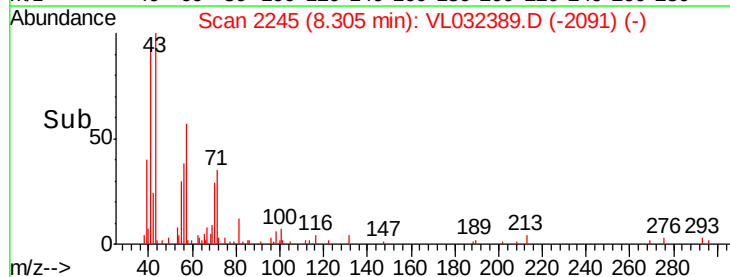
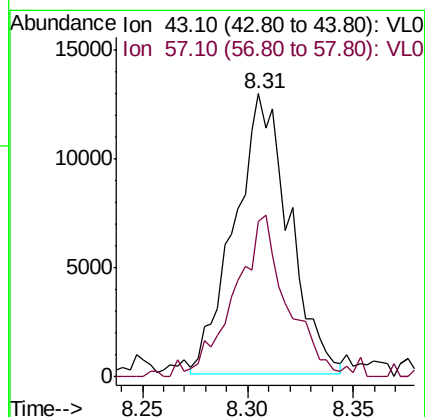
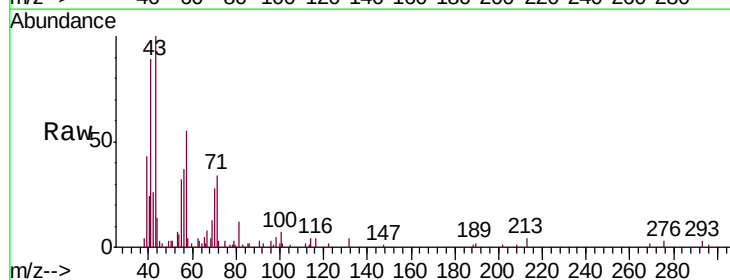
Acq: 16 Aug 2018 23:04

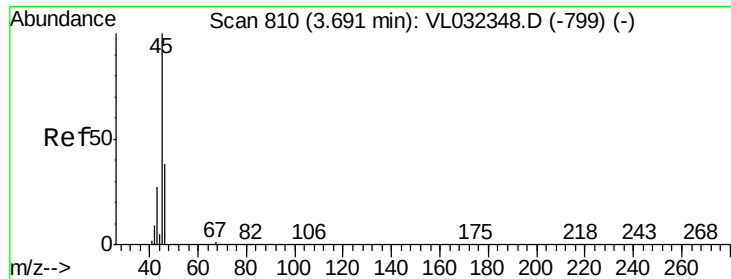
Tgt Ion: 43 Resp: 23250

Ion Ratio Lower Upper

43 100

57 57.5 39.5 59.3

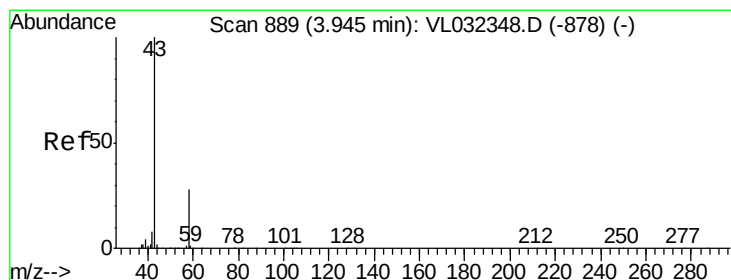
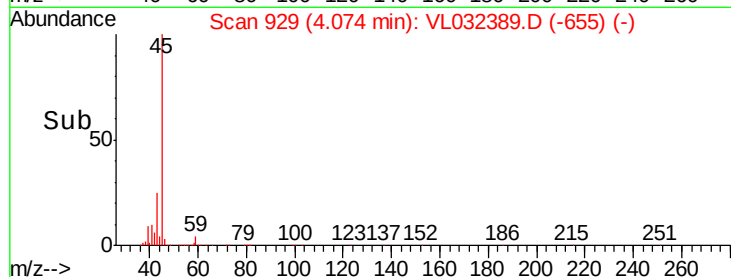
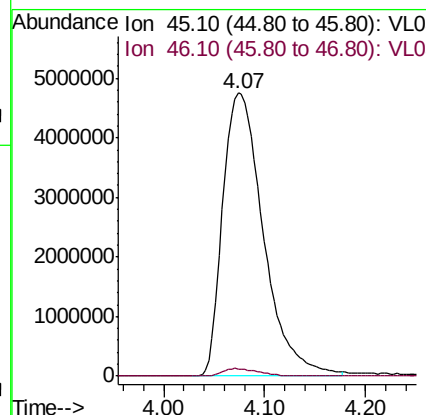
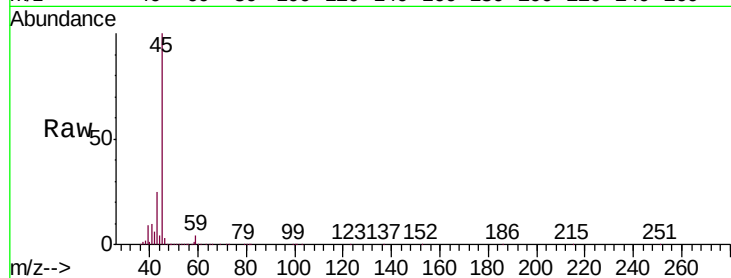




#13
Ethanol
Concen: 716.741 ppbv
RT: 4.07 min Scan# 929
Delta R.T. 0.38 min
Lab File: VL032389.D
Acq: 16 Aug 2018 23:04

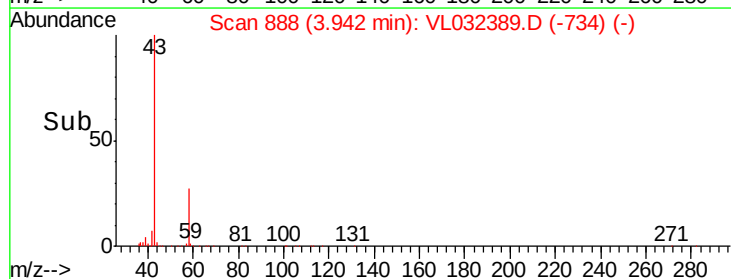
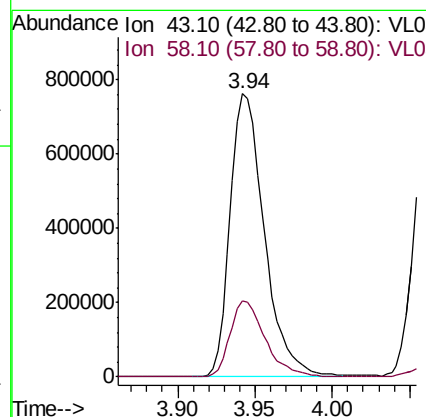
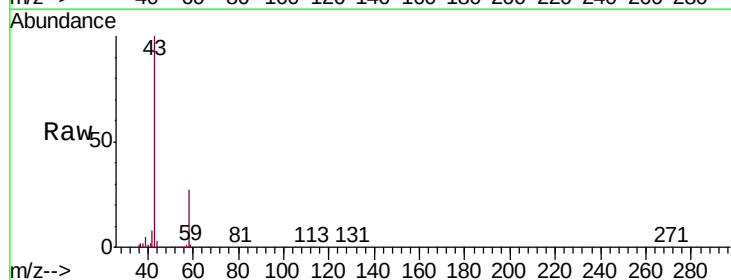
Instrument :
MSVOA_L
ClientSampleId :
SG07-MIVIDL

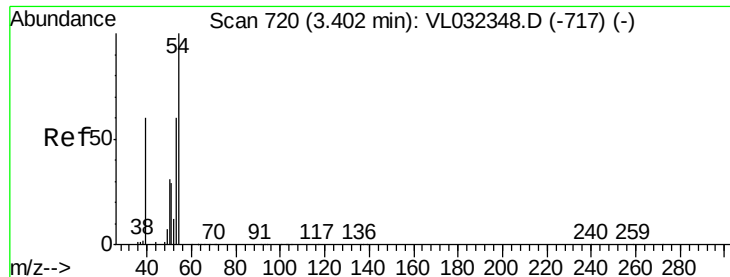
Tgt Ion: 45 Resp:13357367
Ion Ratio Lower Upper
45 100
46 0.0 15.6 62.4#



#15
Acetone
Concen: 6.722 ppbv
RT: 3.94 min Scan# 888
Delta R.T. -0.00 min
Lab File: VL032389.D
Acq: 16 Aug 2018 23:04

Tgt Ion: 43 Resp: 1168971
Ion Ratio Lower Upper
43 100
58 27.6 22.4 33.6

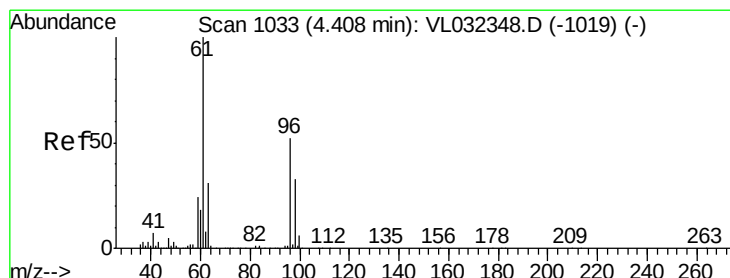
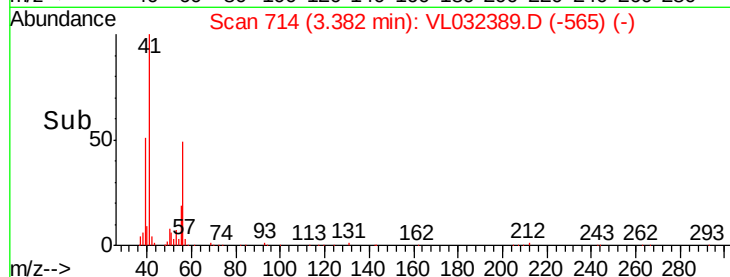
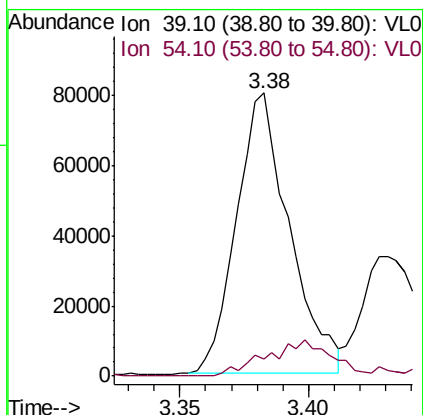
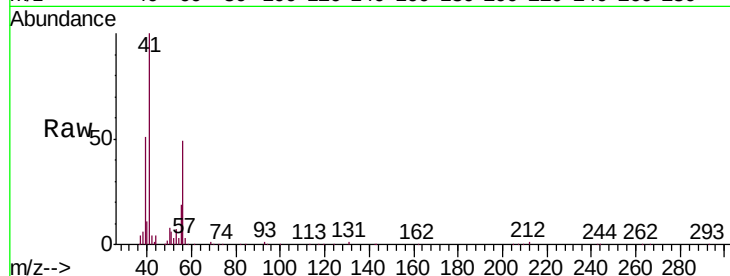




#16
 1,3-Butadiene
 Concen: 1.601 ppbv
 RT: 3.38 min Scan# 714
 Delta R.T. -0.02 min
 Lab File: VL032389.D
 Acq: 16 Aug 2018 23:04

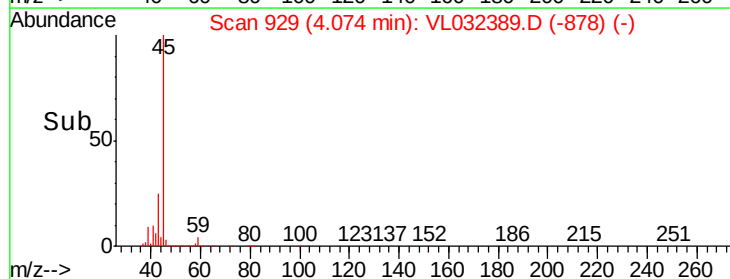
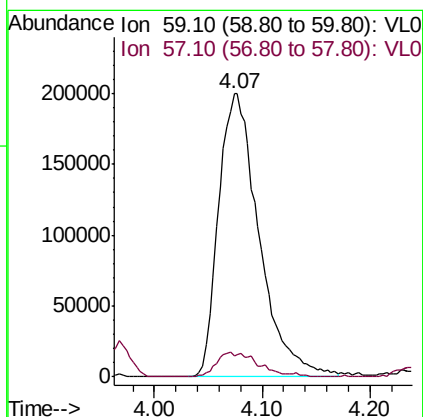
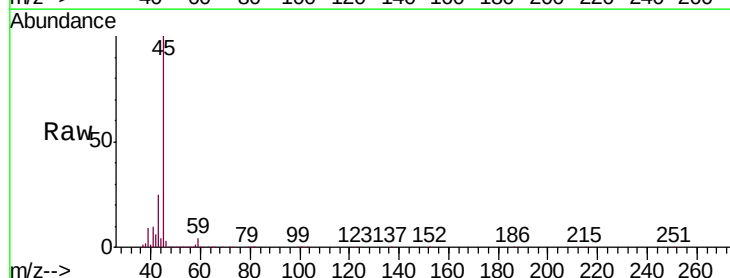
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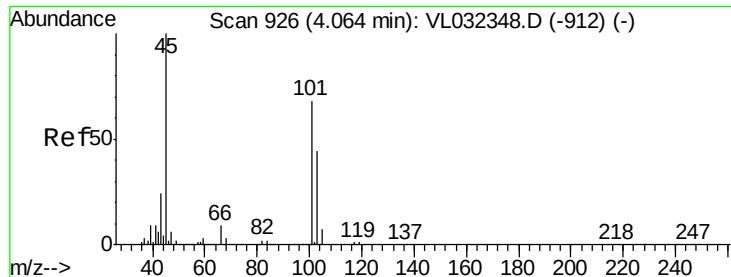
Tgt Ion: 39 Resp: 114943
 Ion Ratio Lower Upper
 39 100
 54 17.7 85.5 128.3#



#17
 tert-Butyl alcohol
 Concen: 17.908 ppbv
 RT: 4.07 min Scan# 929
 Delta R.T. -0.33 min
 Lab File: VL032389.D
 Acq: 16 Aug 2018 23:04

Tgt Ion: 59 Resp: 522510
 Ion Ratio Lower Upper
 59 100
 57 9.3 7.6 11.4





#19

Isopropyl Alcohol

Concen: 114.073 ppbv

RT: 4.07 min Scan# 929

Delta R.T. 0.01 min

Lab File: VL032389.D

Acq: 16 Aug 2018 23:04

Instrument :

MSVOA_L

ClientSampleId :

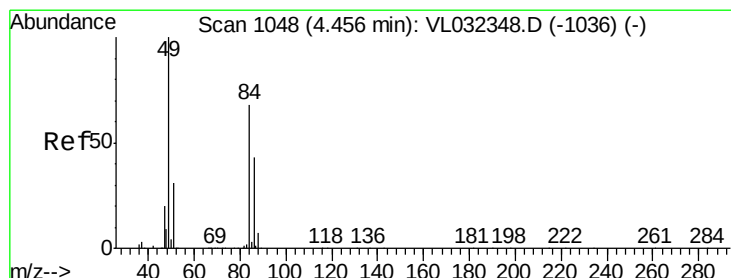
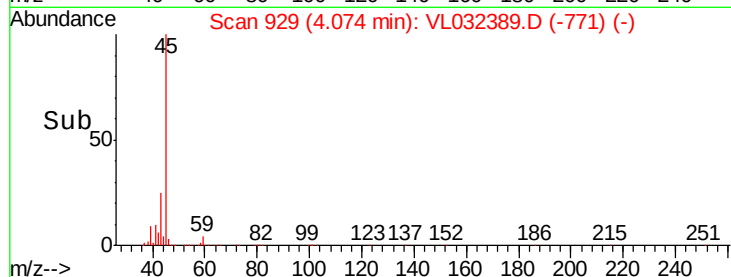
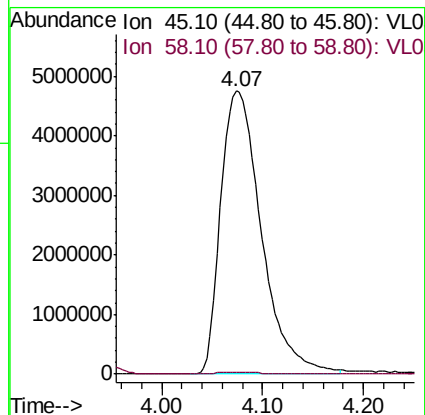
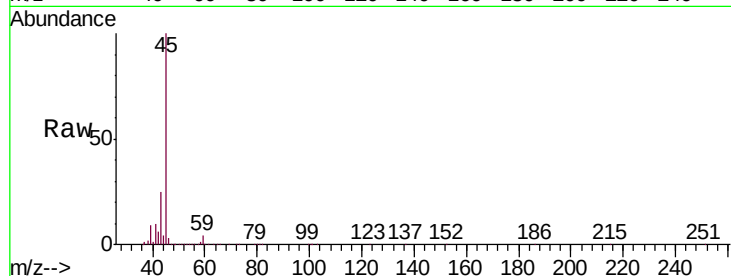
SG07-MIVIDL

Tgt Ion: 45 Resp:13357367

Ion Ratio Lower Upper

45 100

58 0.9 1.4 2.0#



#20

Methylene Chloride

Concen: 2.809 ppbv

RT: 4.45 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VL032389.D

Acq: 16 Aug 2018 23:04

Tgt Ion: 84 Resp: 184485

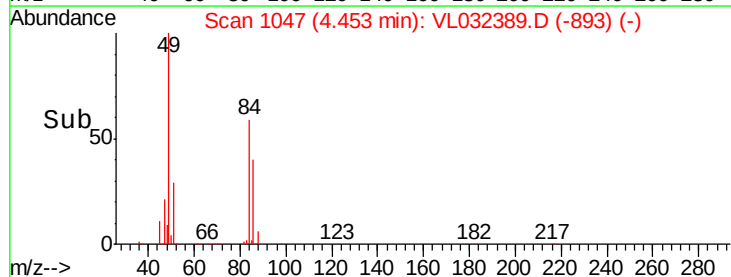
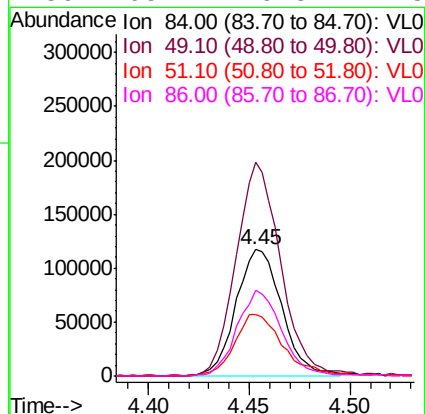
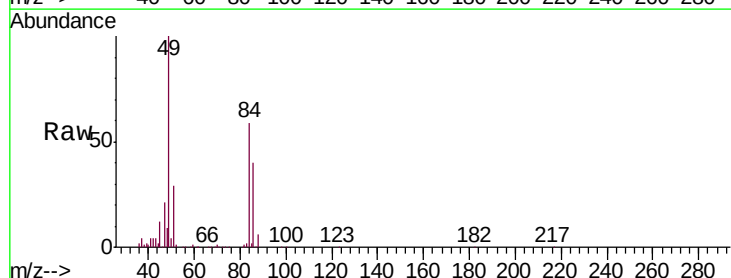
Ion Ratio Lower Upper

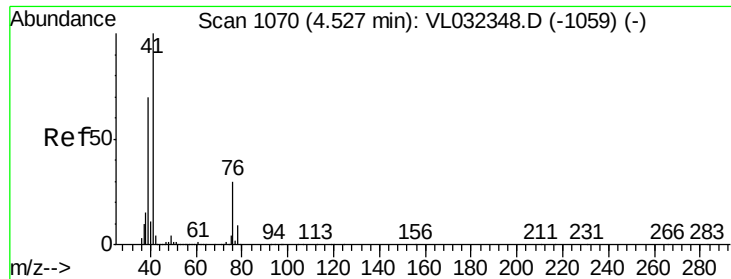
84 100

49 168.8 117.3 175.9

51 48.6 36.6 55.0

86 68.4 49.8 74.8

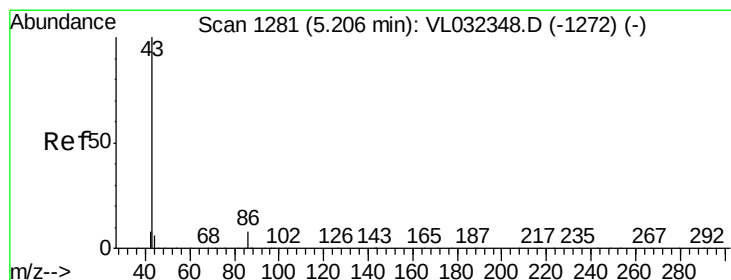
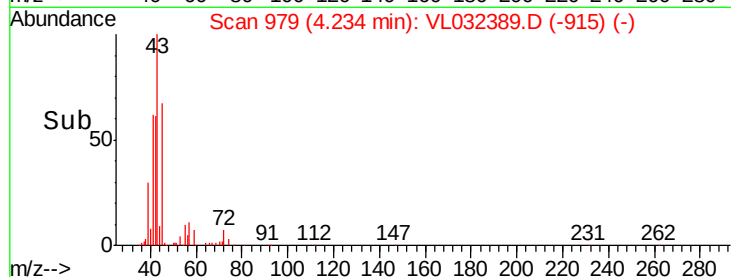
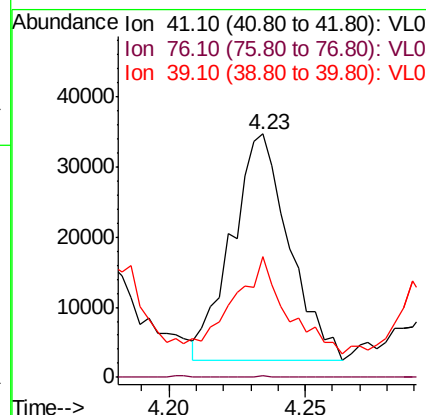
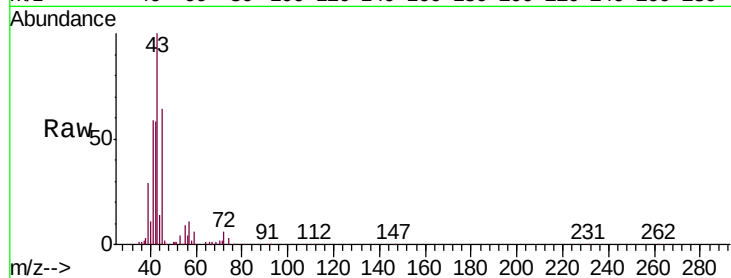




#21
 Allyl Chloride
 Concen: 0.430 ppbv
 RT: 4.23 min Scan# 979
 Delta R.T. -0.29 min
 Lab File: VL032389.D
 Acq: 16 Aug 2018 23:04

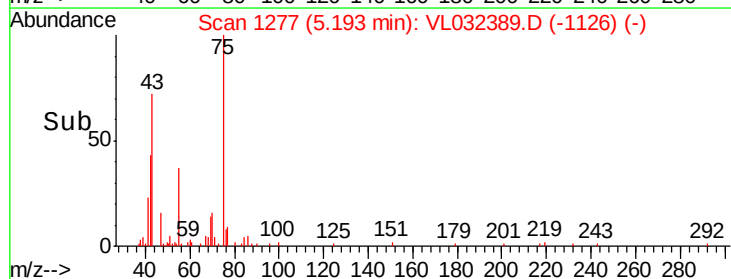
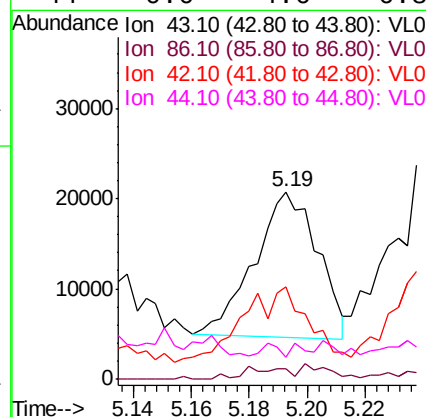
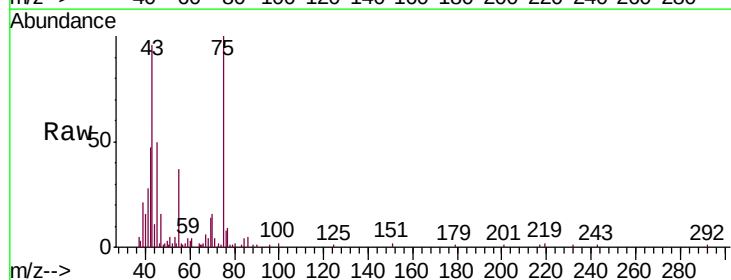
Instrument :
 MSVOA_L
 ClientSampleID :
 SG07-MIVIDL

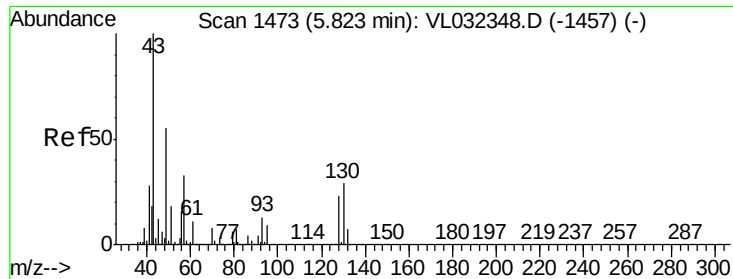
Tgt Ion:	41	Resp:	47204
Ion	Ratio	Lower	Upper
41	100		
76	0.0	22.9	34.3#
39	0.0	57.6	86.4#



#23
 Vinyl Acetate
 Concen: 0.081 ppbv
 RT: 5.19 min Scan# 1277
 Delta R.T. -0.01 min
 Lab File: VL032389.D
 Acq: 16 Aug 2018 23:04

Tgt Ion:	43	Resp:	24472
Ion	Ratio	Lower	Upper
43	100		
86	7.4	5.5	8.3
42	50.2	7.0	10.6#
44	0.0	4.6	6.8#

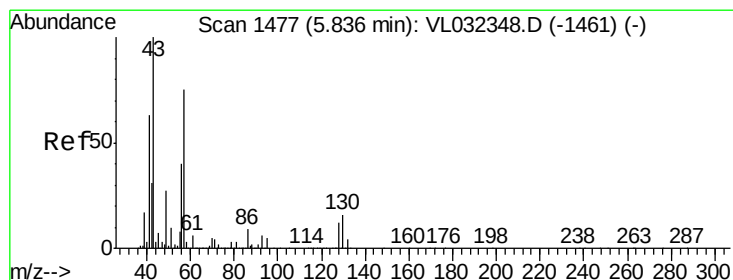
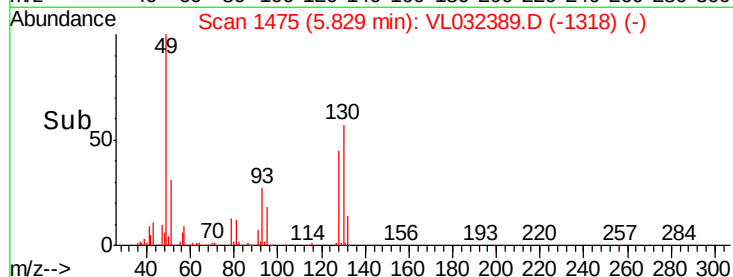
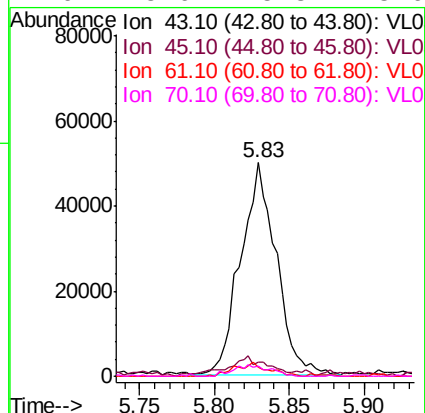
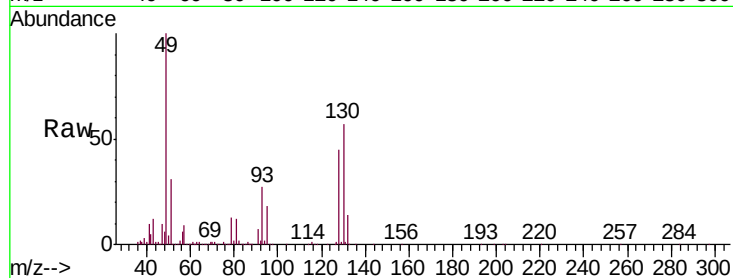




#25
Ethyl Acetate
Concen: 0.224 ppbv
RT: 5.83 min Scan# 1475
Delta R.T. 0.01 min
Lab File: VL032389.D
Acq: 16 Aug 2018 23:04

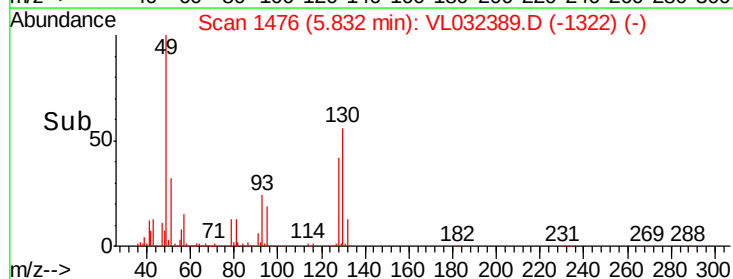
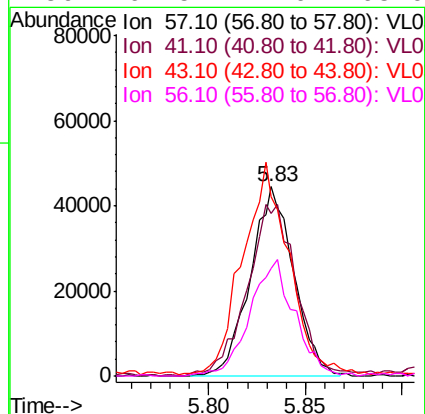
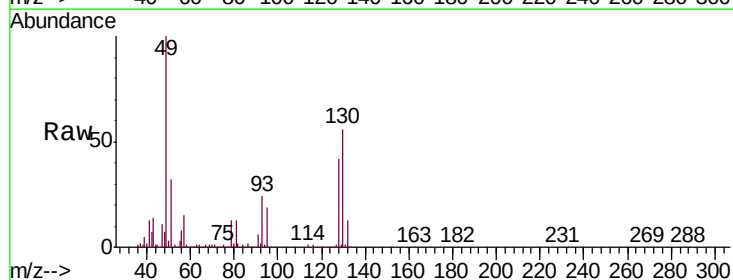
Instrument :
MSVOA_L
ClientSampleId :
SG07-MIVIDL

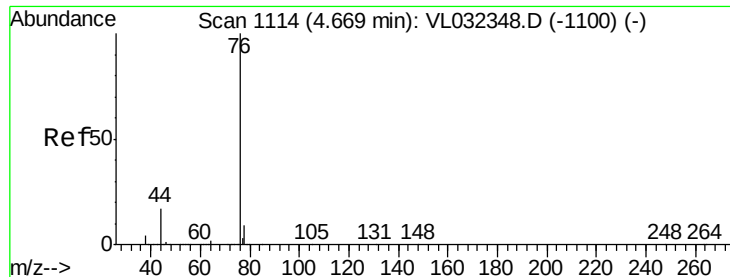
Tgt Ion:	43	Resp:	83407
Ion	Ratio	Lower	Upper
43	100		
45	12.5	7.9	11.9#
61	5.8	7.4	11.2#
70	5.6	5.8	8.6#



#26
Hexane
Concen: 0.417 ppbv
RT: 5.83 min Scan# 1476
Delta R.T. -0.00 min
Lab File: VL032389.D
Acq: 16 Aug 2018 23:04

Tgt Ion:	57	Resp:	69243
Ion	Ratio	Lower	Upper
57	100		
41	102.1	68.0	102.0#
43	117.7	175.3	262.9#
56	64.5	42.0	63.0#





#27

Carbon Disulfide

Concen: 0.092 ppbv

RT: 4.67 min Scan# 1114

Delta R.T. -0.00 min

Lab File: VL032389.D

Acq: 16 Aug 2018 23:04

Instrument :

MSVOA_L

ClientSampleId :

SG07-MIVIDL

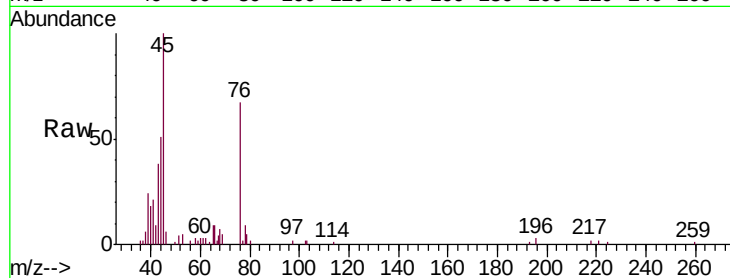
Tgt Ion: 76 Resp: 14215

Ion Ratio Lower Upper

76 100

44 70.5 14.4 21.6#

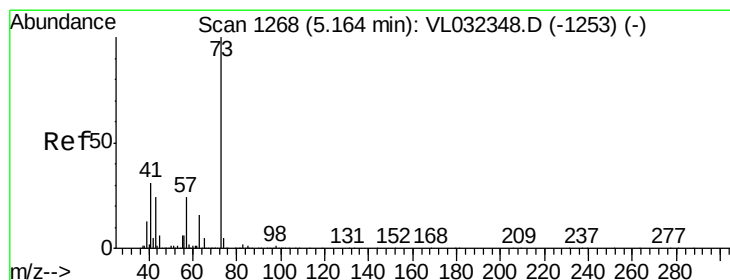
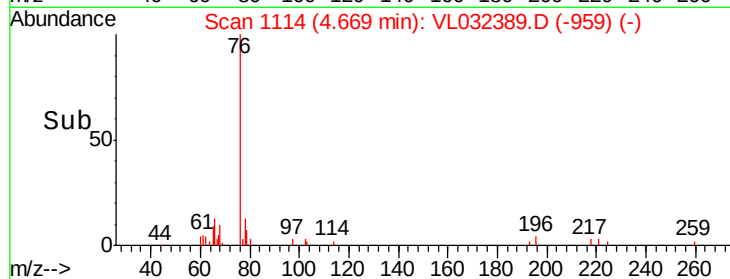
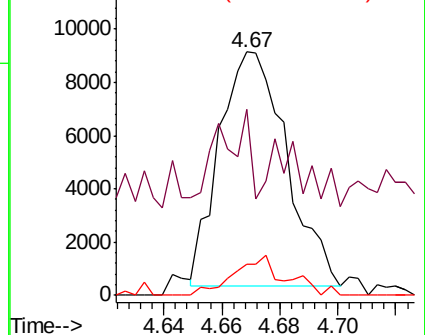
78 12.9 7.4 11.0#



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 0.372 ppbv

RT: 5.09 min Scan# 1245

Delta R.T. -0.07 min

Lab File: VL032389.D

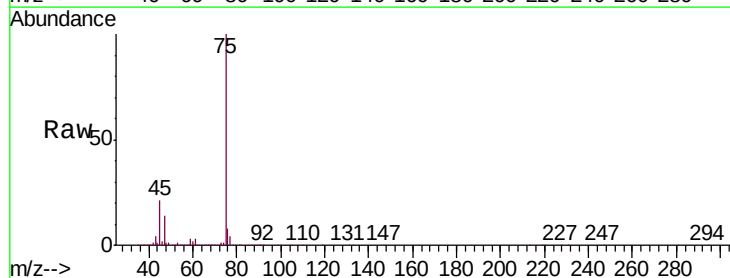
Acq: 16 Aug 2018 23:04

Tgt Ion: 73 Resp: 82115

Ion Ratio Lower Upper

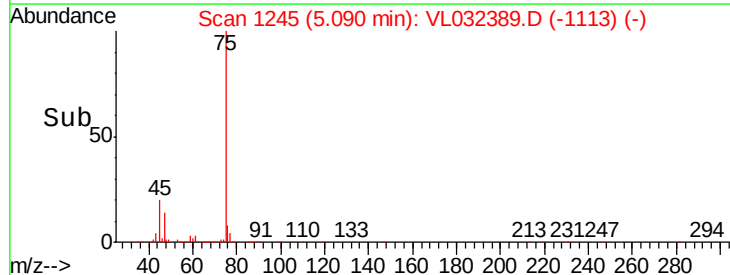
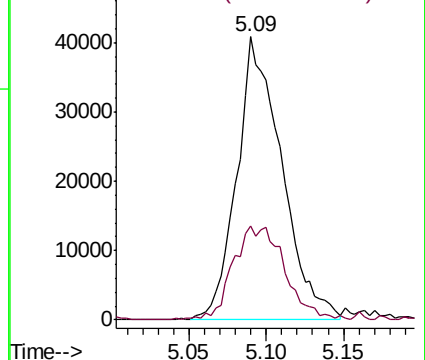
73 100

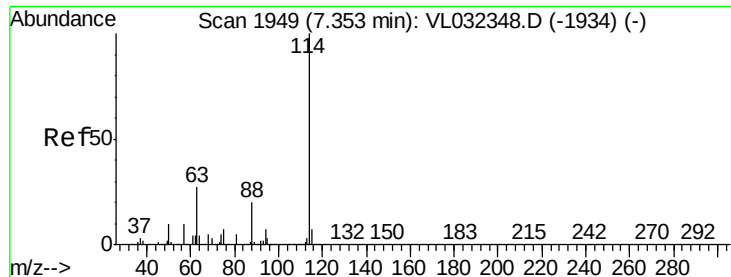
57 38.2 19.3 28.9#



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

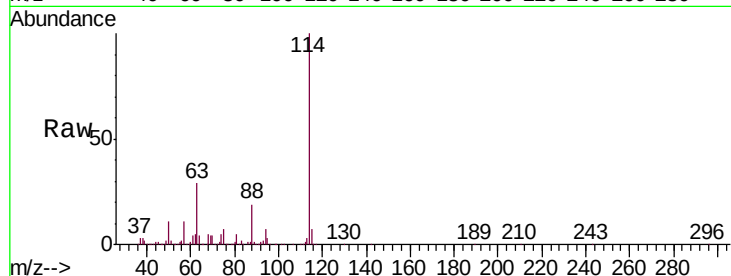




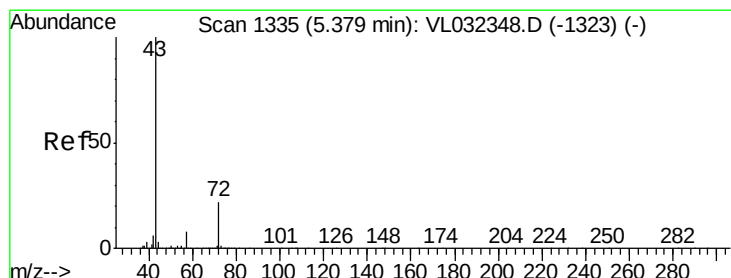
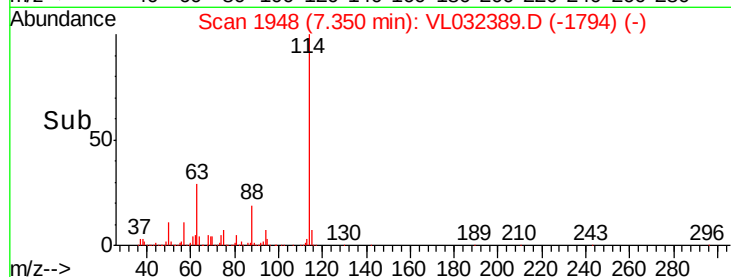
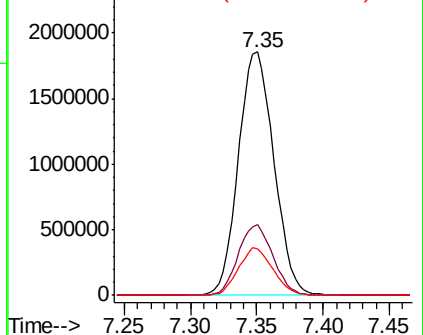
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.35 min Scan# 1948
 Delta R.T. -0.00 min
 Lab File: VL032389.D
 Acq: 16 Aug 2018 23:04

Instrument :
 MSVOA_L
 ClientSampleId :
 SG07-MIVIDL

Tgt Ion:114 Resp: 3454840
 Ion Ratio Lower Upper
 114 100
 63 28.5 22.0 33.0
 88 19.0 15.3 22.9

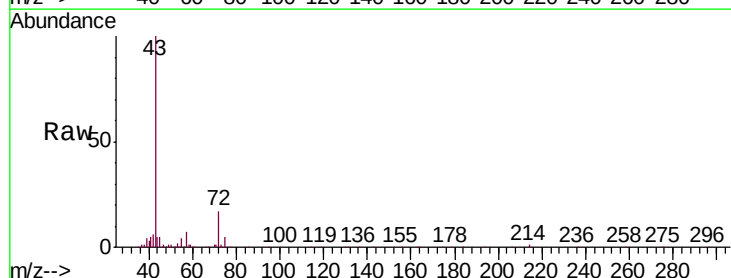


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

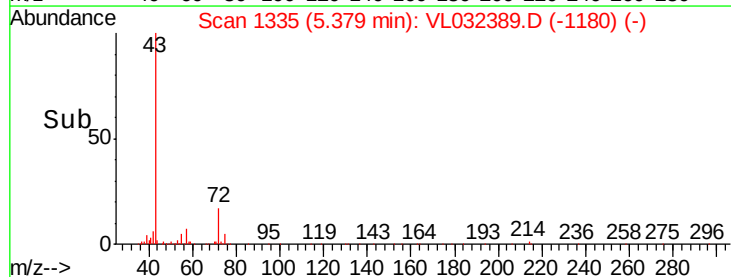
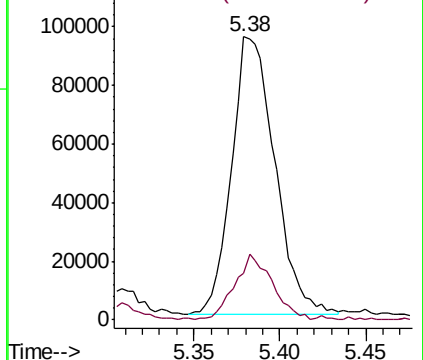


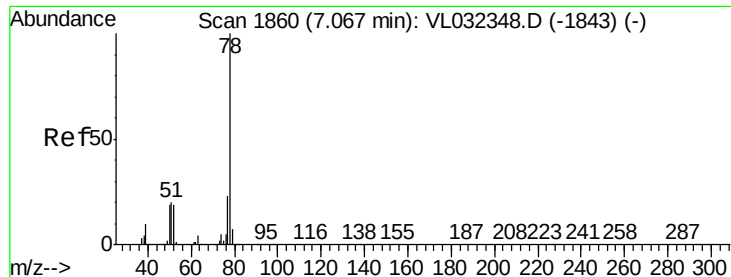
#34
 2-Butanone
 Concen: 0.700 ppbv
 RT: 5.38 min Scan# 1335
 Delta R.T. -0.00 min
 Lab File: VL032389.D
 Acq: 16 Aug 2018 23:04

Tgt Ion: 43 Resp: 164674
 Ion Ratio Lower Upper
 43 100
 72 21.6 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: 0.076 ppbv

RT: 7.06 min Scan# 1858

Delta R.T. -0.01 min

Lab File: VL032389.D

Acq: 16 Aug 2018 23:04

Instrument :

MSVOA_L

ClientSampleId :

SG07-MIVIDL

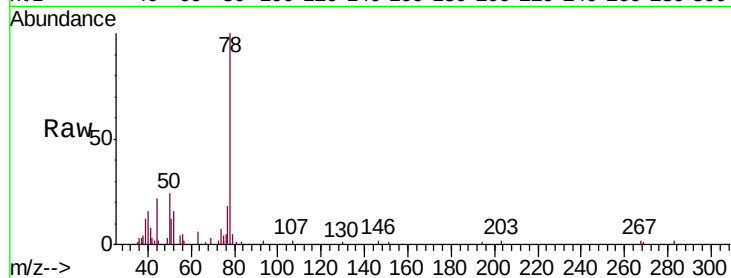
Tgt Ion: 78 Resp: 22219

Ion Ratio Lower Upper

78 100

77 16.3 18.0 27.0#

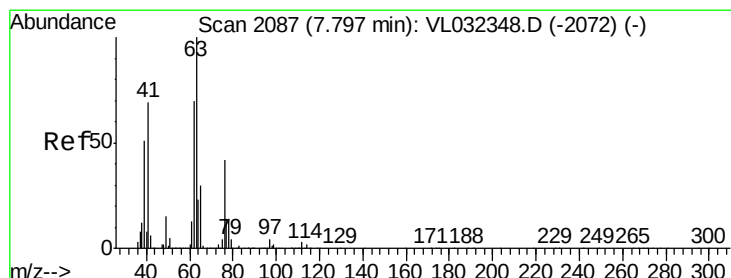
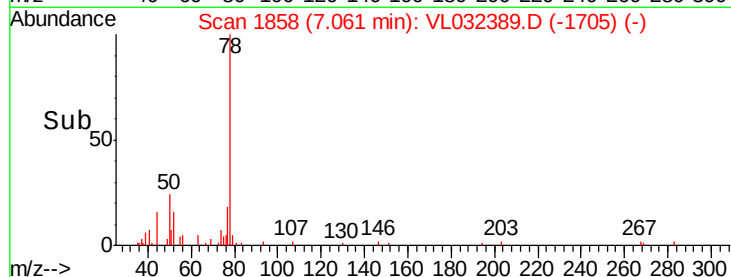
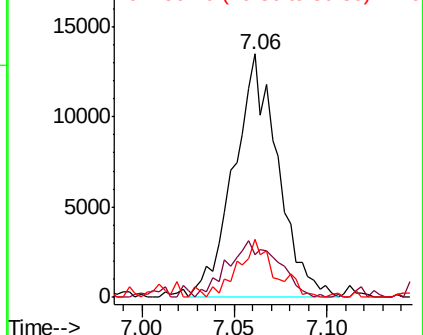
50 23.9 15.1 22.7#



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



#39

1,2-Dichloropropane

Concen: 7.980 ppbv

RT: 7.35 min Scan# 1948

Delta R.T. -0.45 min

Lab File: VL032389.D

Acq: 16 Aug 2018 23:04

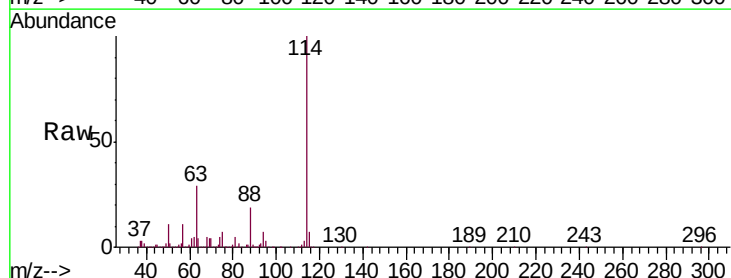
Tgt Ion: 63 Resp: 976414

Ion Ratio Lower Upper

63 100

41 0.0 55.5 83.3#

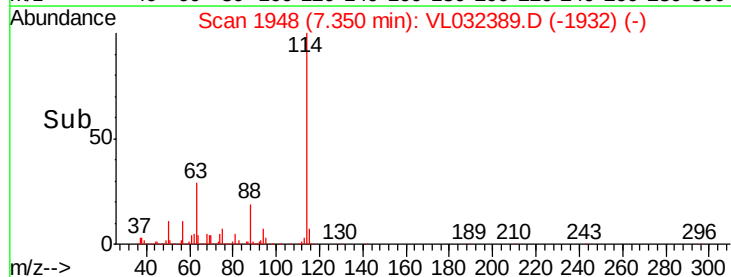
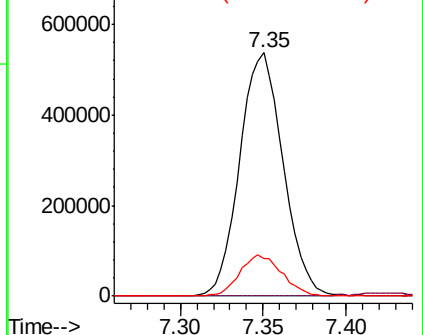
62 15.6 56.3 84.5#

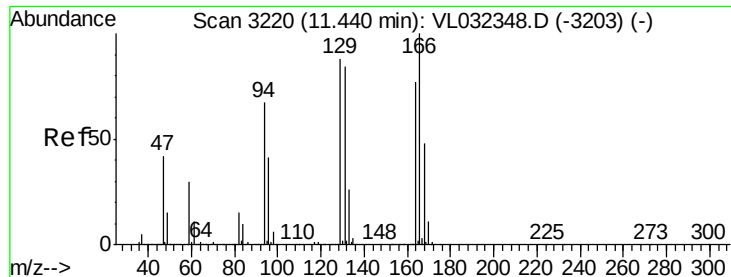


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#52

Tetrachloroethene

Concen: 0.031 ppbv

RT: 11.43 min Scan# 3218

Delta R.T. -0.01 min

Lab File: VL032389.D

Acq: 16 Aug 2018 23:04

Instrument :

MSVOA_L

ClientSampleID :

SG07-MIVIDL

Tgt Ion:164 Resp: 2652

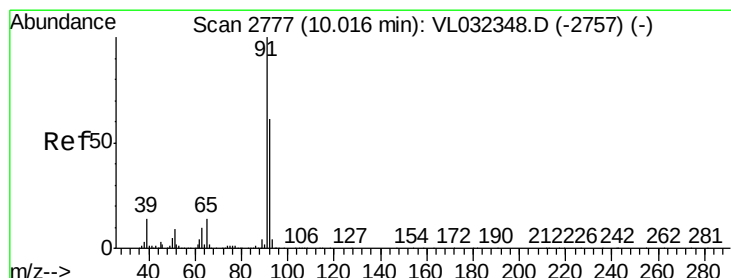
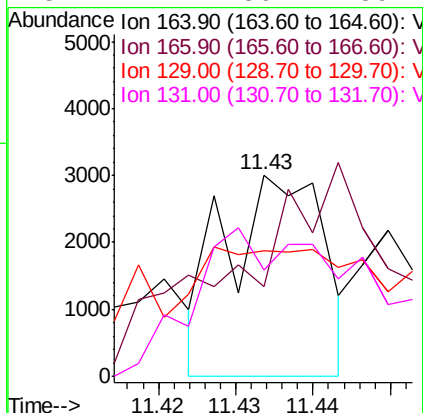
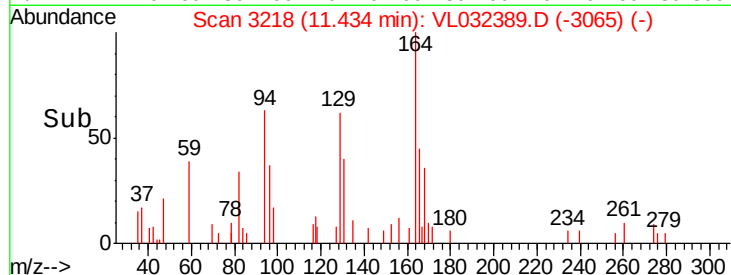
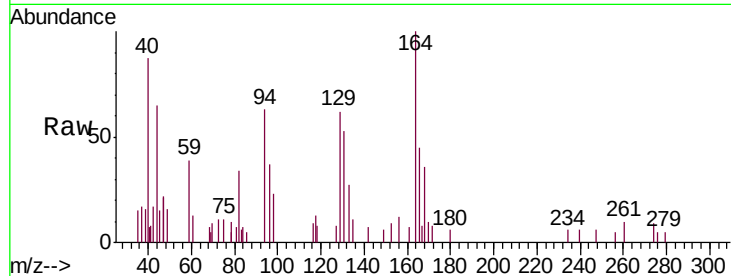
Ion Ratio Lower Upper

164 100

166 3.5 103.5 155.3#

129 31.8 90.9 136.3#

131 42.1 86.7 130.1#



#53

Toluene

Concen: 0.503 ppbv

RT: 10.01 min Scan# 2776

Delta R.T. -0.00 min

Lab File: VL032389.D

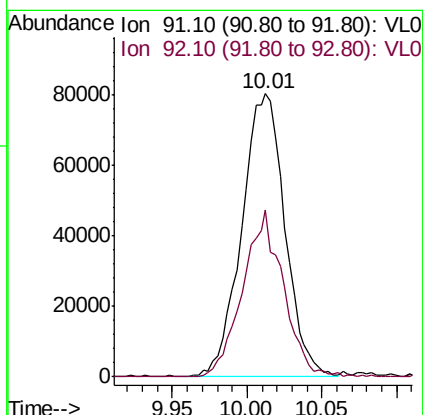
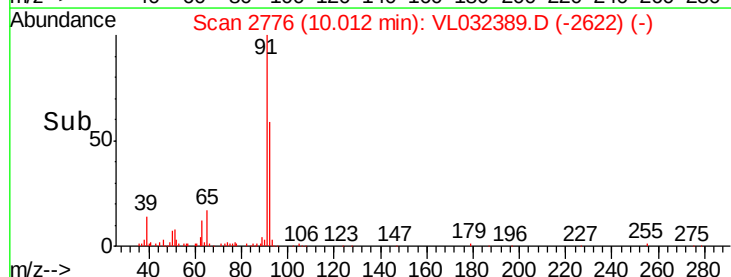
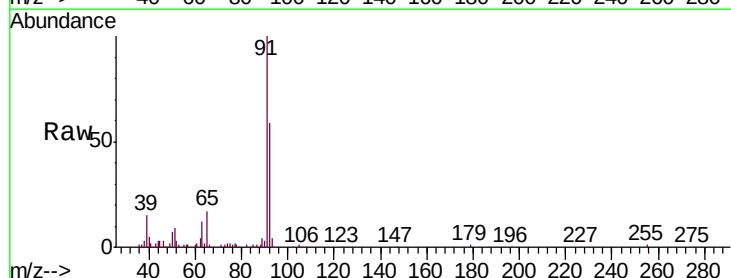
Acq: 16 Aug 2018 23:04

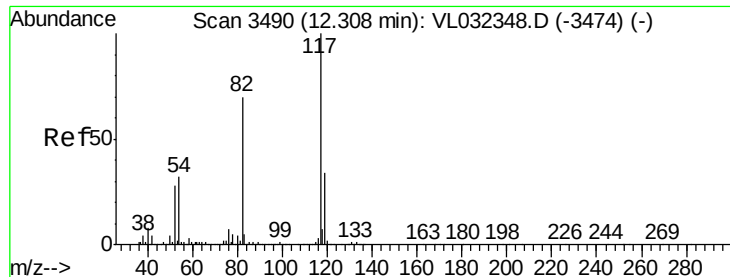
Tgt Ion: 91 Resp: 161491

Ion Ratio Lower Upper

91 100

92 55.6 48.7 73.1

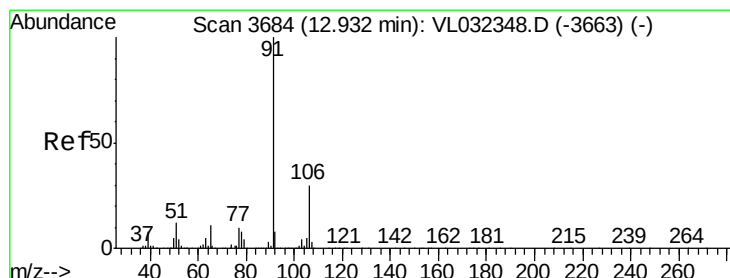
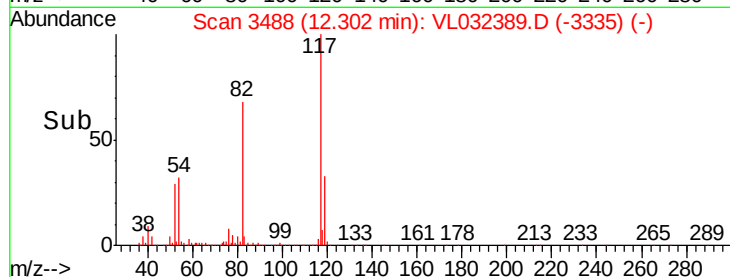
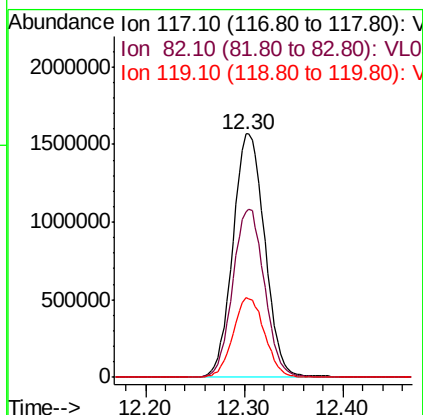
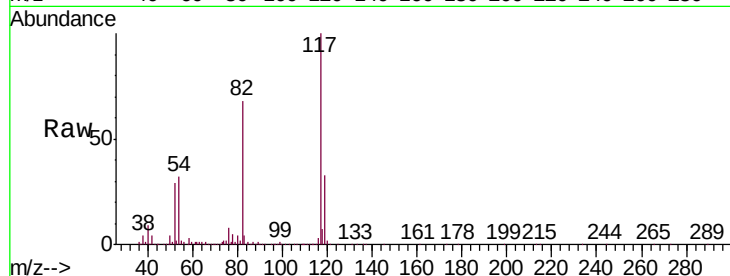




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.30 min Scan# 3488
Delta R.T. -0.01 min
Lab File: VL032389.D
Acq: 16 Aug 2018 23:04

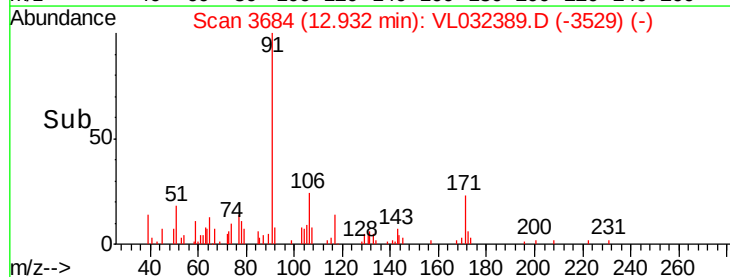
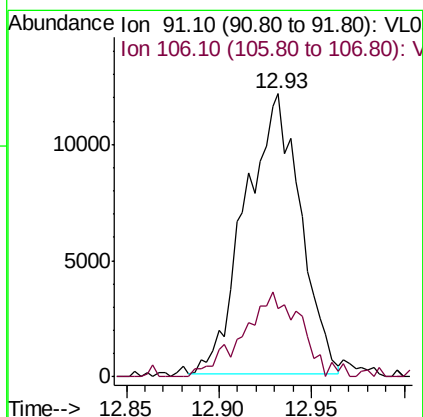
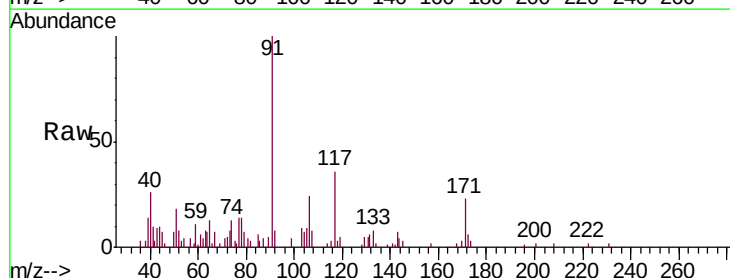
Instrument :
MSVOA_L
ClientSampleId :
SG07-MIVIDL

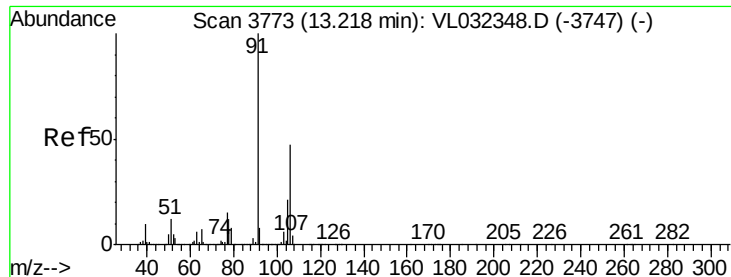
Tgt Ion:117 Resp: 3527531
Ion Ratio Lower Upper
117 100
82 68.7 55.1 82.7
119 32.5 46.0 69.0#



#58
Ethyl Benzene
Concen: 0.058 ppbv
RT: 12.93 min Scan# 3684
Delta R.T. -0.00 min
Lab File: VL032389.D
Acq: 16 Aug 2018 23:04

Tgt Ion: 91 Resp: 24767
Ion Ratio Lower Upper
91 100
106 24.6 24.3 36.5





#59

m/p-Xylene

Concen: 0.053 ppbv

RT: 13.21 min Scan# 3771

Delta R.T. -0.01 min

Lab File: VL032389.D

Acq: 16 Aug 2018 23:04

Instrument :

MSVOA_L

ClientSampleId :

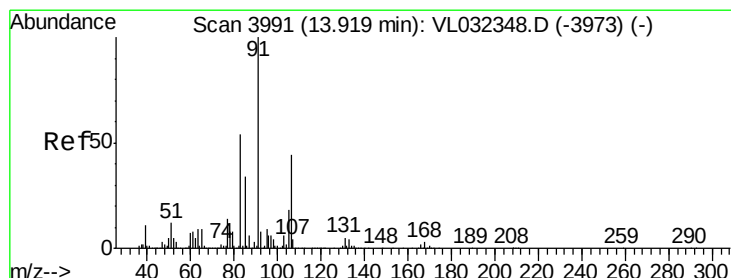
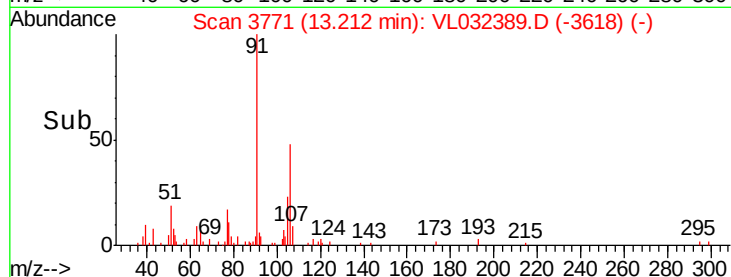
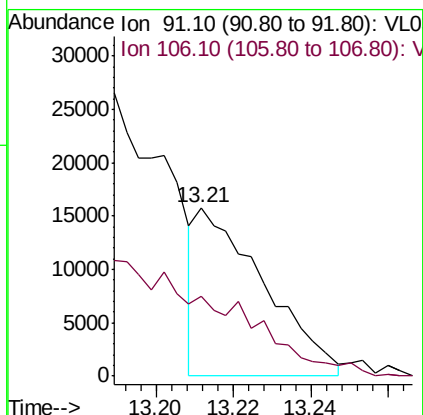
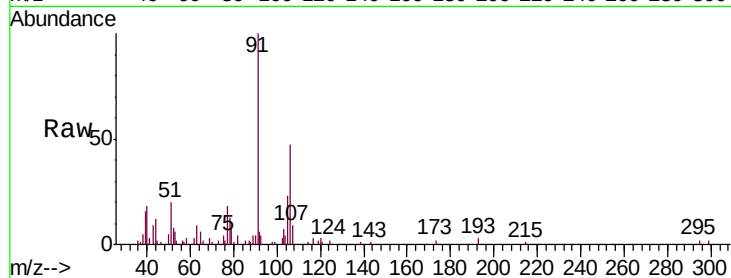
SG07-MIVIDL

Tgt Ion: 91 Resp: 19087

Ion Ratio Lower Upper

91 100

106 0.0 37.0 55.4#



#60

o-Xylene

Concen: 0.065 ppbv

RT: 13.92 min Scan# 3990

Delta R.T. -0.00 min

Lab File: VL032389.D

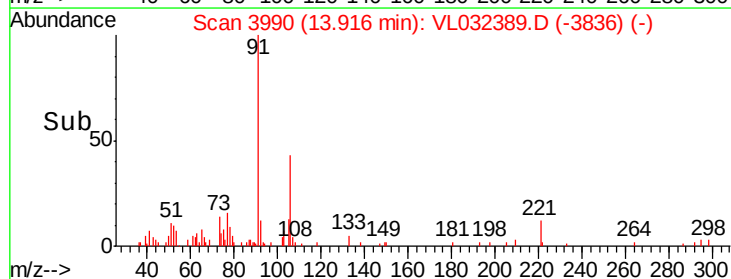
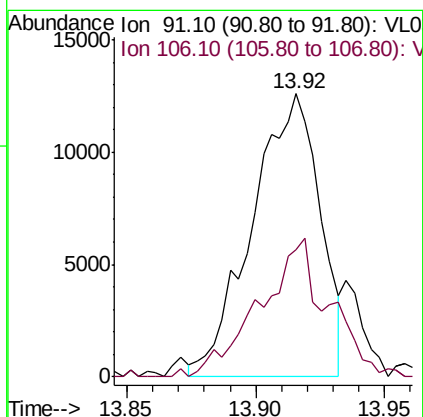
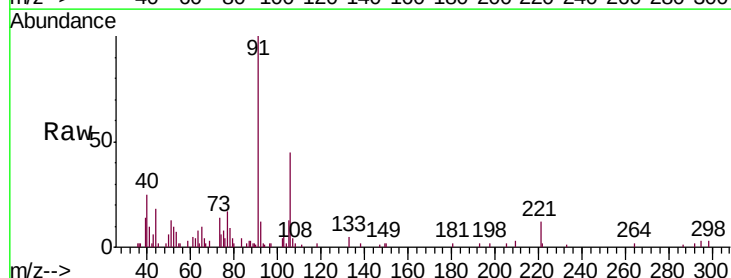
Acq: 16 Aug 2018 23:04

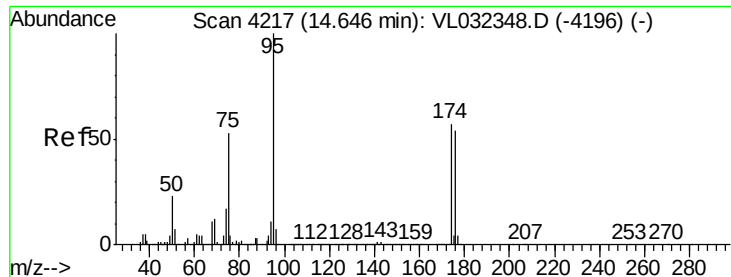
Tgt Ion: 91 Resp: 23093

Ion Ratio Lower Upper

91 100

106 49.9 22.3 66.8

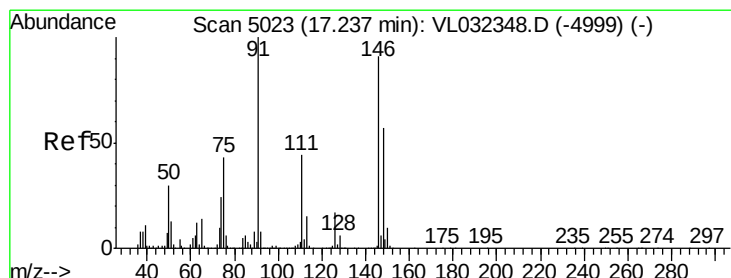
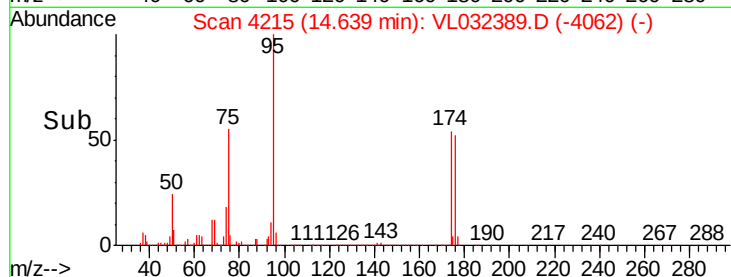
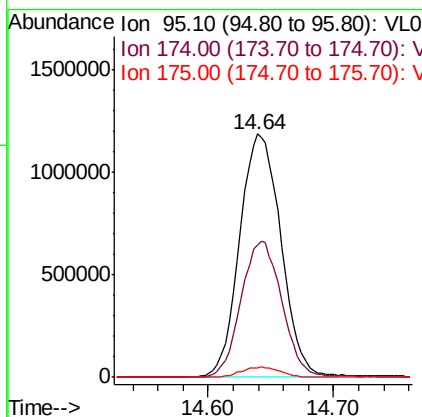
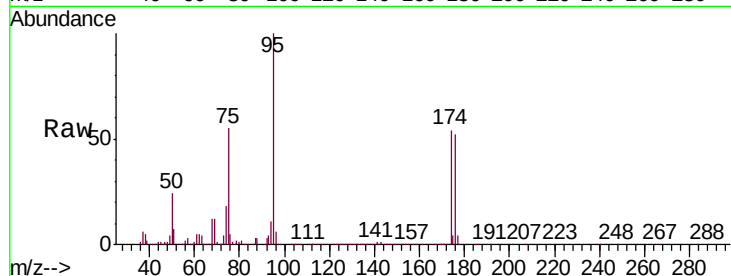




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.083 ppbv
 RT: 14.64 min Scan# 4215
 Delta R.T. -0.01 min
 Lab File: VL032389.D
 Acq: 16 Aug 2018 23:04

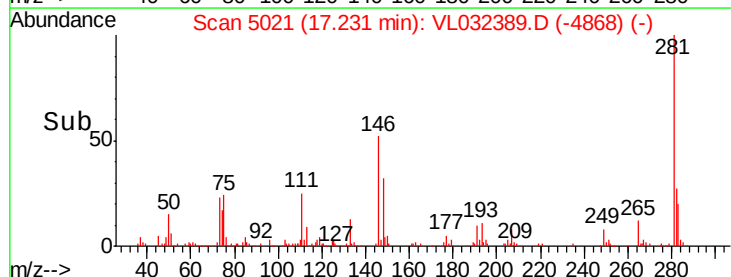
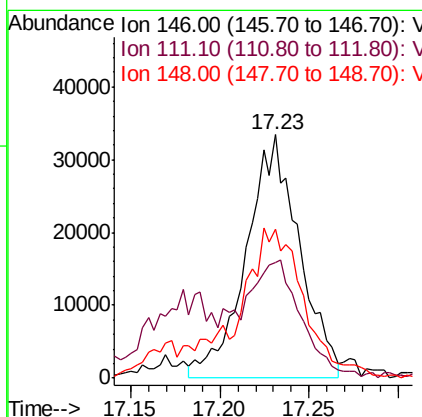
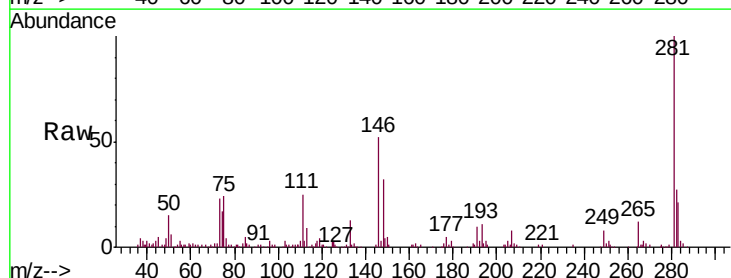
Instrument :
 MSVOA_L
 ClientSampleID :
 SG07-MIVIDL

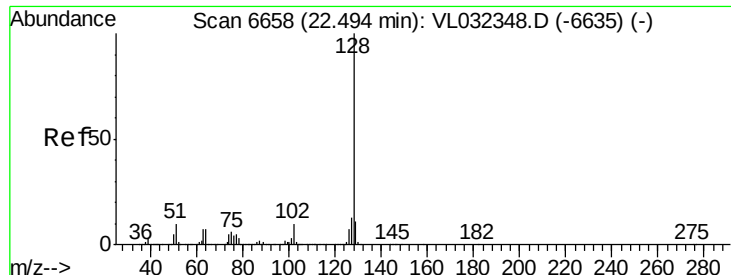
Tgt Ion: 95 Resp: 2713636
 Ion Ratio Lower Upper
 95 100
 174 56.1 46.2 69.4
 175 4.1 3.4 5.0



#75
 1,3-Dichlorobenzene
 Concen: 0.283 ppbv
 RT: 17.23 min Scan# 5021
 Delta R.T. -0.01 min
 Lab File: VL032389.D
 Acq: 16 Aug 2018 23:04

Tgt Ion: 146 Resp: 68805
 Ion Ratio Lower Upper
 146 100
 111 60.7 24.6 73.8
 148 88.1 32.0 96.0





#79

Naphthalene

Concen: 0.329 ppbv

RT: 22.48 min Scan# 6655

Delta R.T. -0.01 min

Lab File: VL032389.D

Acq: 16 Aug 2018 23:04

Instrument :

MSVOA_L

ClientSampleId :

SG07-MIVIDL

Tgt Ion:128 Resp: 818

Ion Ratio Lower Upper

128 100

127 17.7 10.3 15.5#

129 0.0 8.6 13.0#

