

Data File : VL032388.D
Acq On : 16 Aug 2018 22:23
Operator : SY/AP
Sample : J4457-06DL 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG05-MIVIDL

Quant Time: Aug 17 03:20:35 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	5.82	49	1831944	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.35	114	3491372	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.31	117	3356281	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.64	95	2598739	10.15	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.50%

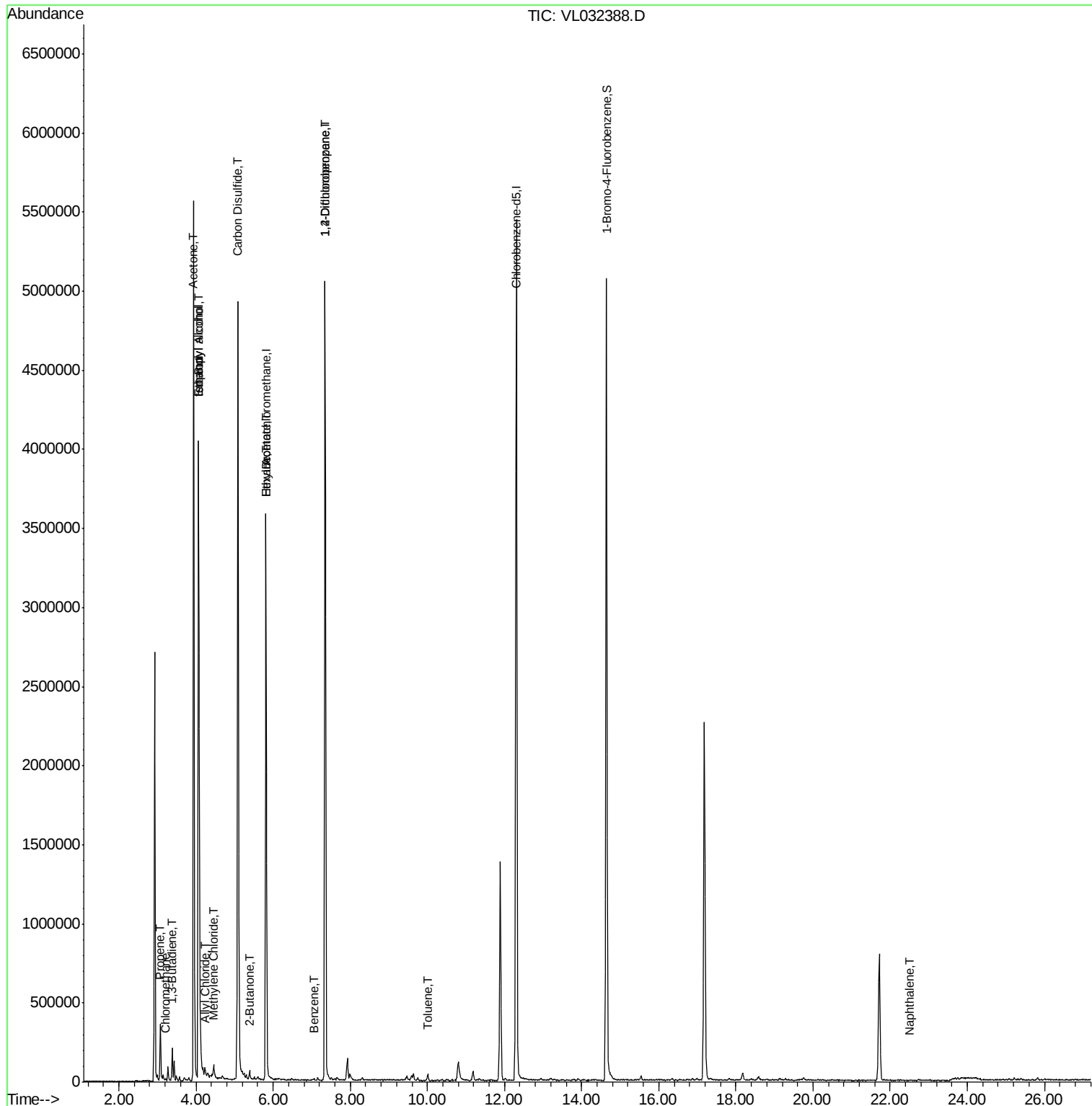
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.11	85	3434	Below Cal	#	84
4) Chloromethane	3.21	50	5267	0.052	ppbv	98
9) Propene	3.07	41	141606	1.950	ppbv	94
13) Ethanol	4.07	45	5255173	281.725	ppbv	# 36
15) Acetone	3.94	43	5913071	33.973	ppbv	100
16) 1,3-Butadiene	3.38	39	54041	0.752	ppbv	# 13
17) tert-Butyl alcohol	4.07	59	184552	6.319	ppbv	100
19) Isopropyl Alcohol	4.07	45	5267648	44.944	ppbv	# 99
20) Methylene Chloride	4.46	84	26237	0.399	ppbv	91
21) Allyl Chloride	4.24	41	16370	0.149	ppbv	# 23
25) Ethyl Acetate	5.83	43	18316	0.049	ppbv	# 84
26) Hexane	5.83	57	21861	0.131	ppbv	# 39
27) Carbon Disulfide	5.08	76	472213	3.042	ppbv	# 78
34) 2-Butanone	5.39	43	55198	0.232	ppbv	95
36) Benzene	7.07	78	9179	0.031	ppbv	# 91
39) 1,2-Dichloropropane	7.35	63	981911	7.941	ppbv	# 26
53) Toluene	10.01	91	16060	0.049	ppbv	# 32
79) Naphthalene	22.48	128	347	0.328	ppbv	# 69

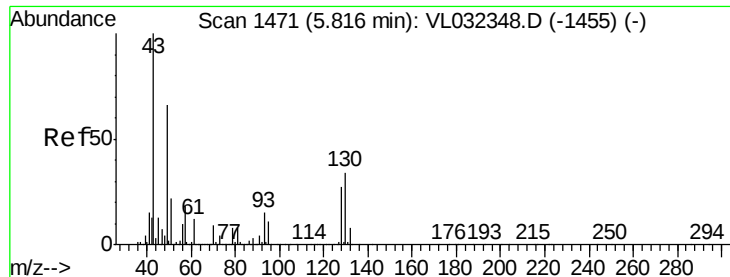
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.82 min Scan# 1471

Delta R.T. 0.00 min

Lab File: VL032388.D

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MSVOA_L

ClientSampleId :

SG05-MIVIDL

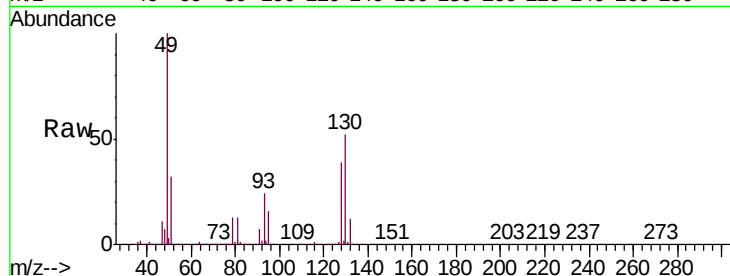
Tgt Ion: 49 Resp: 1831944

Ion Ratio Lower Upper

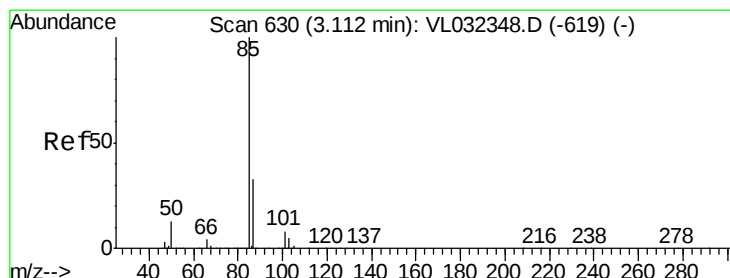
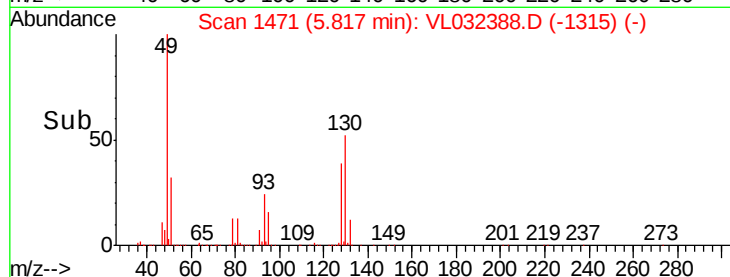
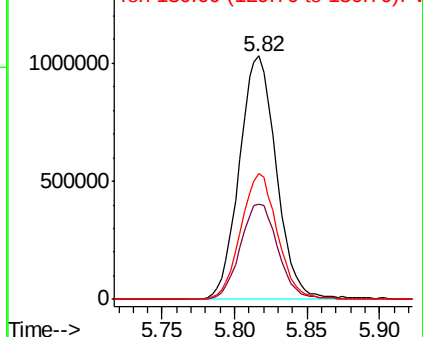
49 100

128 40.0 20.5 61.6

130 51.5 26.2 78.5



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: Below Cal

RT: 3.11 min Scan# 630

Delta R.T. 0.00 min

Lab File: VL032388.D

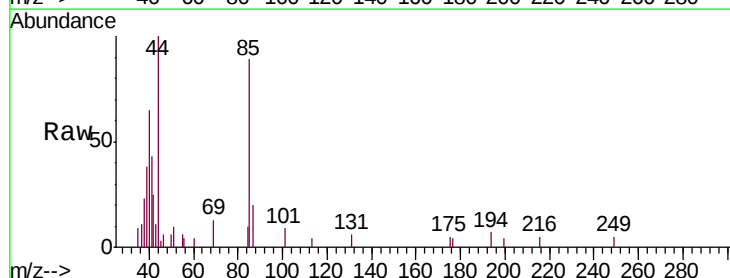
Acq: 16 Aug 2018 22:23

Tgt Ion: 85 Resp: 3434

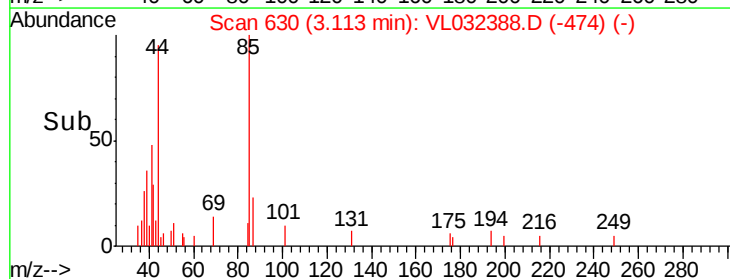
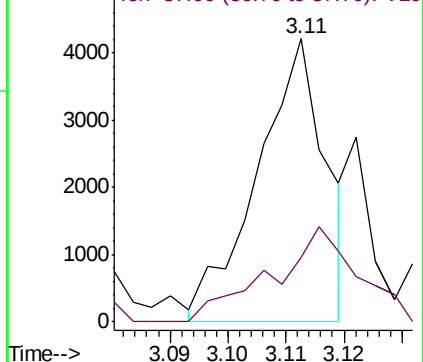
Ion Ratio Lower Upper

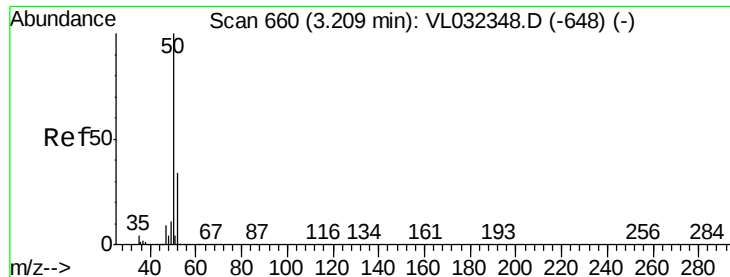
85 100

87 23.9 26.3 39.5#



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.052 ppbv

RT: 3.21 min Scan# 660

Delta R.T. 0.00 min

Lab File: VL032388.D

Acq: 16 Aug 2018 22:23

Instrument :

MSVOA_L

ClientSampleId :

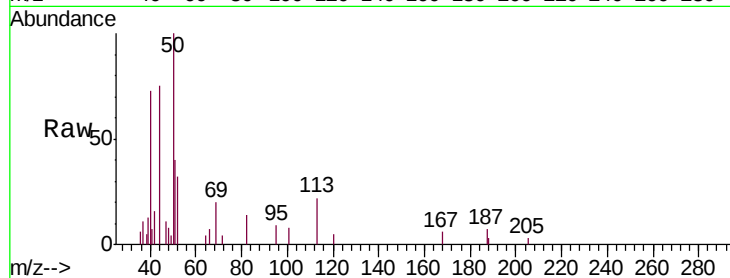
SG05-MIVIDL

Tgt Ion: 50 Resp: 5267

Ion Ratio Lower Upper

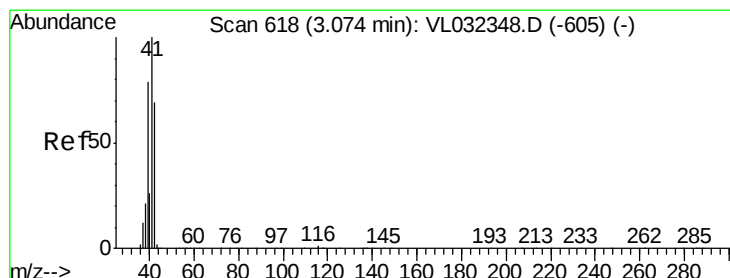
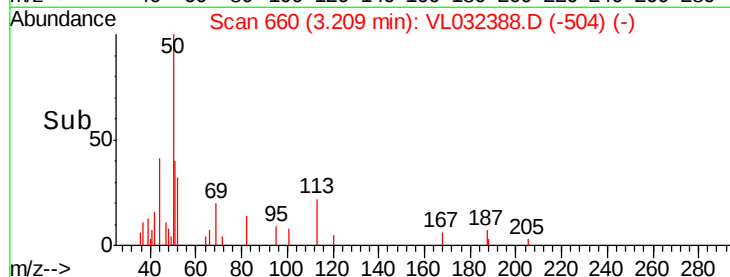
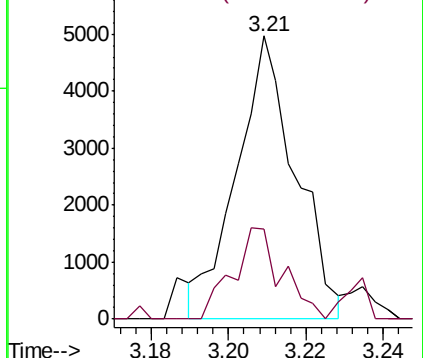
50 100

52 34.4 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 1.950 ppbv

RT: 3.07 min Scan# 618

Delta R.T. 0.00 min

Lab File: VL032388.D

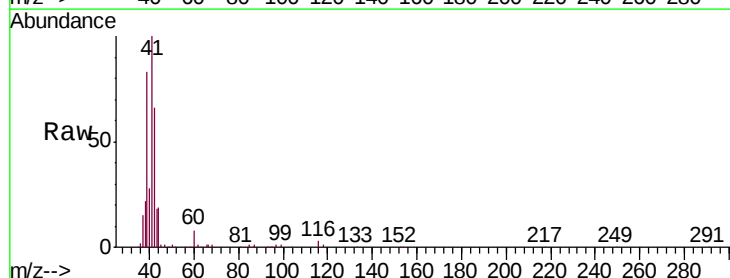
Acq: 16 Aug 2018 22:23

Tgt Ion: 41 Resp: 141606

Ion Ratio Lower Upper

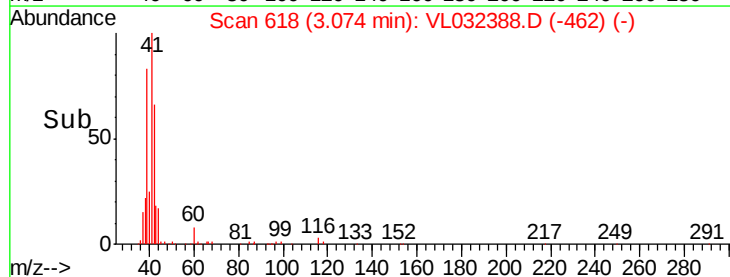
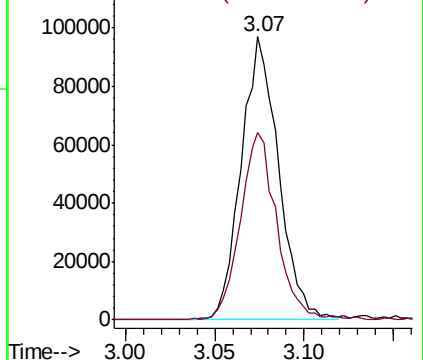
41 100

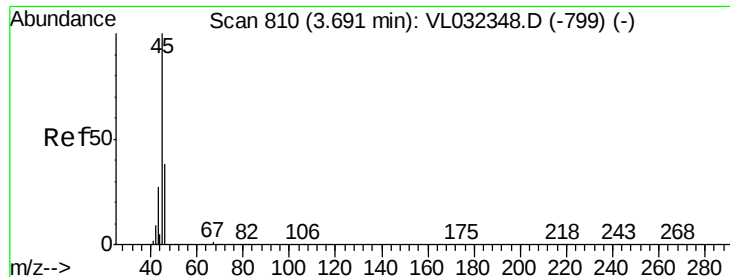
42 64.9 55.9 83.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 281.725 ppbv

RT: 4.07 min Scan# 927

Delta R.T. 0.38 min

Lab File: VL032388.D

Acq: 16 Aug 2018 22:23

Instrument :

MSVOA_L

ClientSampleId :

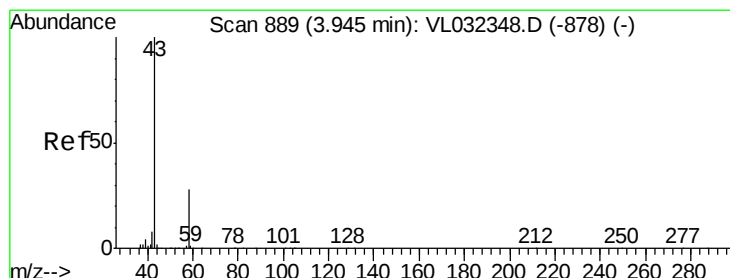
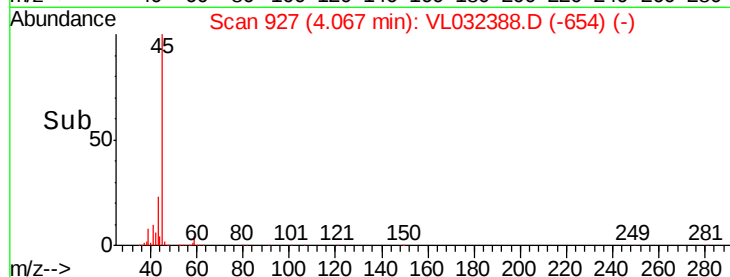
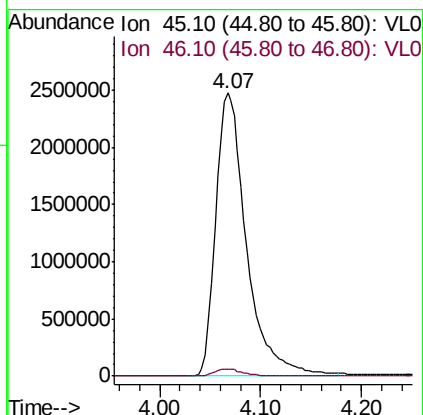
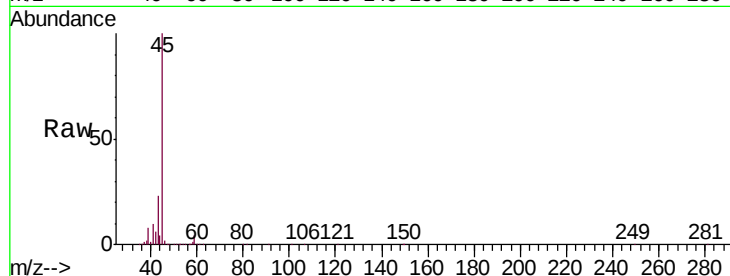
SG05-MIVIDL

Tgt Ion: 45 Resp: 5255173

Ion Ratio Lower Upper

45 100

46 0.0 15.6 62.4#



#15

Acetone

Concen: 33.973 ppbv

RT: 3.94 min Scan# 887

Delta R.T. -0.01 min

Lab File: VL032388.D

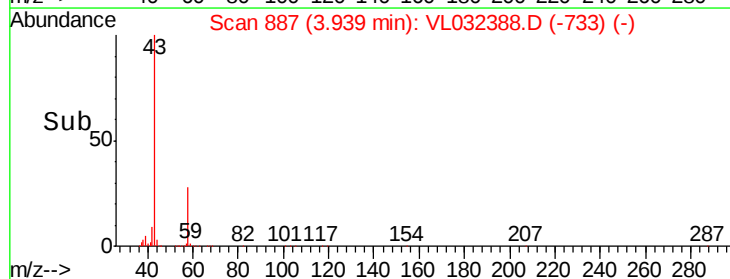
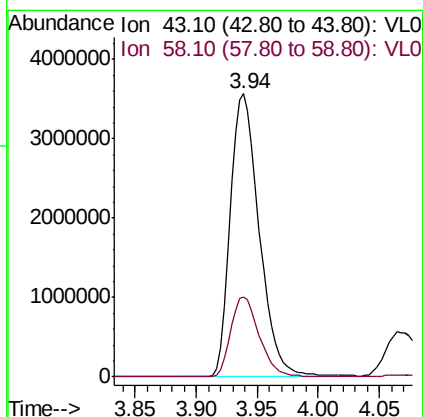
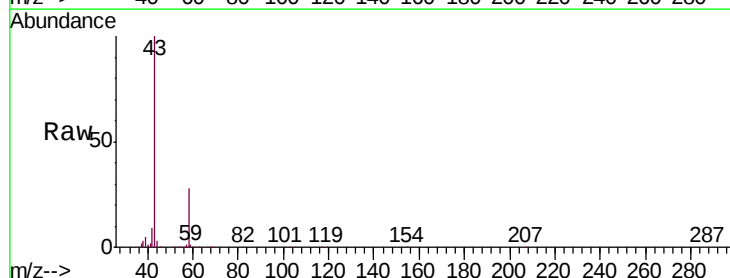
Acq: 16 Aug 2018 22:23

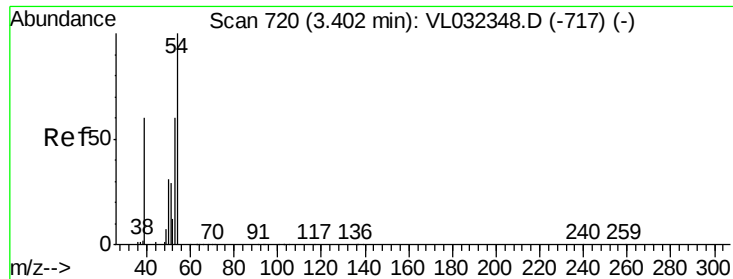
Tgt Ion: 43 Resp: 5913071

Ion Ratio Lower Upper

43 100

58 28.0 22.4 33.6

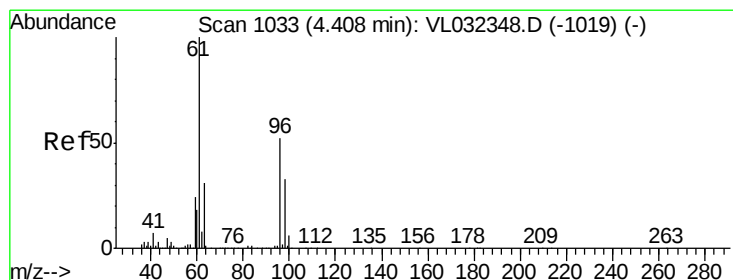
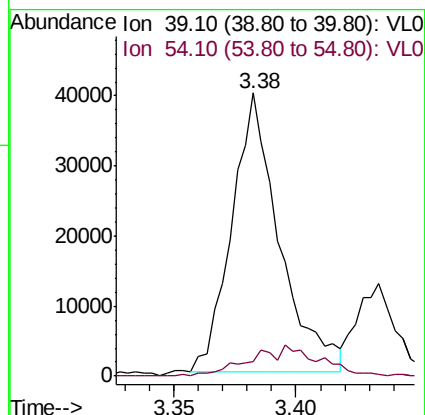
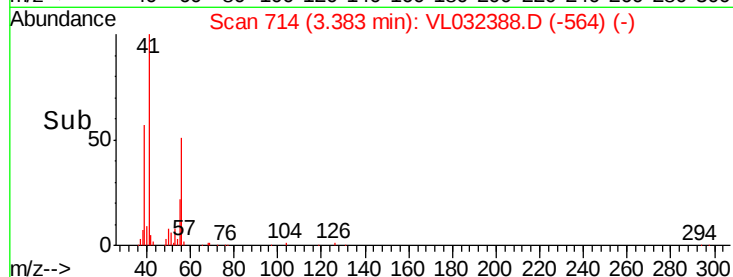
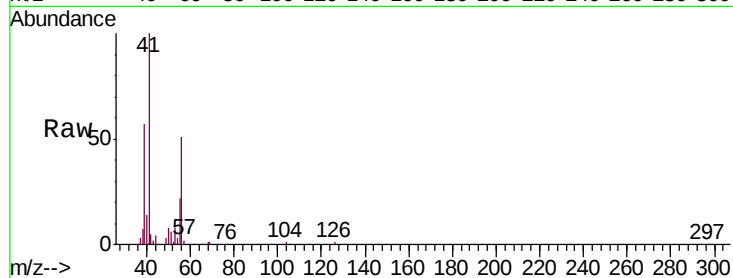




#16
 1,3-Butadiene
 Concen: 0.752 ppbv
 RT: 3.38 min Scan# 714
 Delta R.T. -0.02 min
 Lab File: VL032388.D
 Acq: 16 Aug 2018 22:23

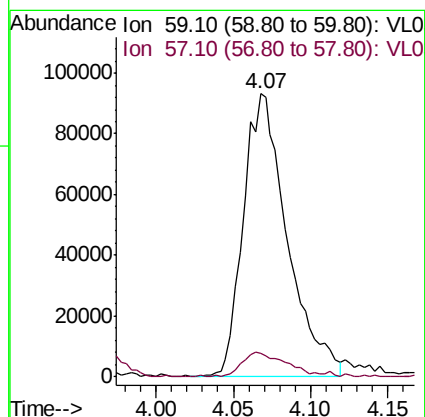
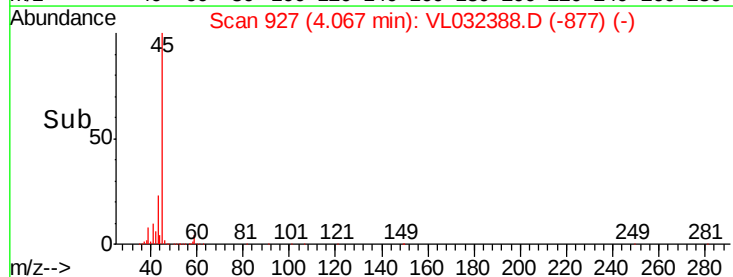
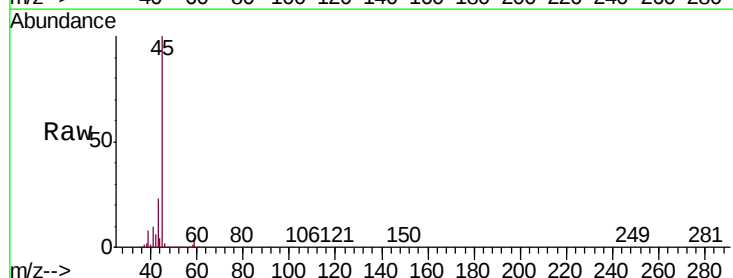
Instrument :
 MSVOA_L
 ClientSampleId :
 SG05-MIVIDL

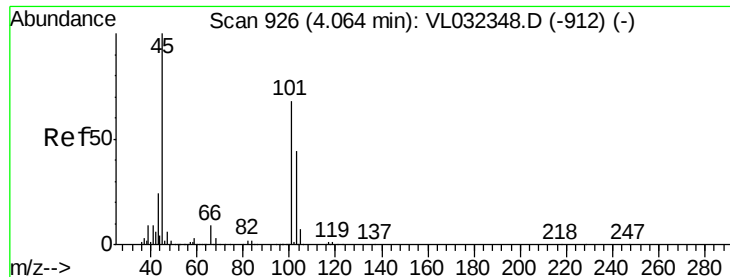
Tgt Ion: 39 Resp: 54041
 Ion Ratio Lower Upper
 39 100
 54 16.3 85.5 128.3#



#17
 tert-Butyl alcohol
 Concen: 6.319 ppbv
 RT: 4.07 min Scan# 927
 Delta R.T. -0.34 min
 Lab File: VL032388.D
 Acq: 16 Aug 2018 22:23

Tgt Ion: 59 Resp: 184552
 Ion Ratio Lower Upper
 59 100
 57 9.5 7.6 11.4





#19

Isopropyl Alcohol

Concen: 44.944 ppbv

RT: 4.07 min Scan# 927

Delta R.T. 0.00 min

Lab File: VL032388.D

Acq: 16 Aug 2018 22:23

Instrument :

MSVOA_L

ClientSampled :

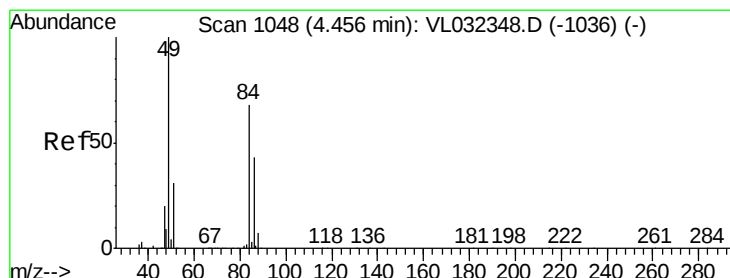
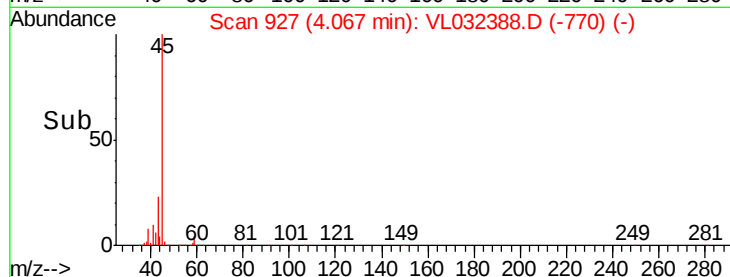
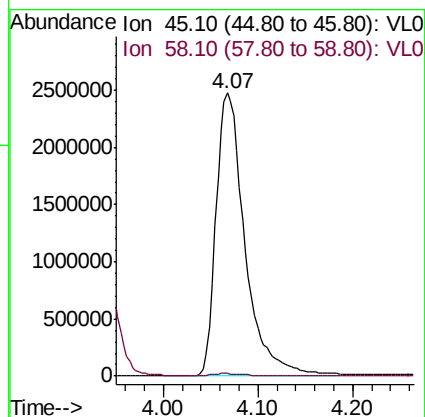
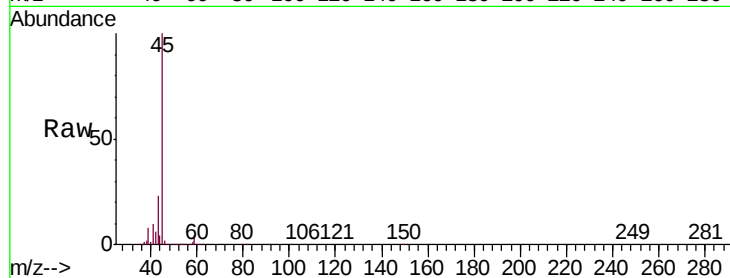
SG05-MIVIDL

Tgt Ion: 45 Resp: 5267648

Ion Ratio Lower Upper

45 100

58 1.3 1.4 2.0#



#20

Methylene Chloride

Concen: 0.399 ppbv

RT: 4.46 min Scan# 1048

Delta R.T. 0.00 min

Lab File: VL032388.D

Acq: 16 Aug 2018 22:23

Tgt Ion: 84 Resp: 26237

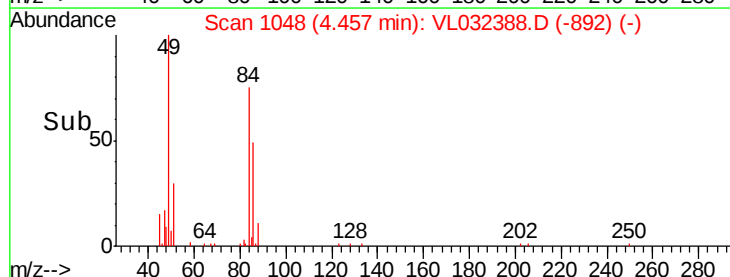
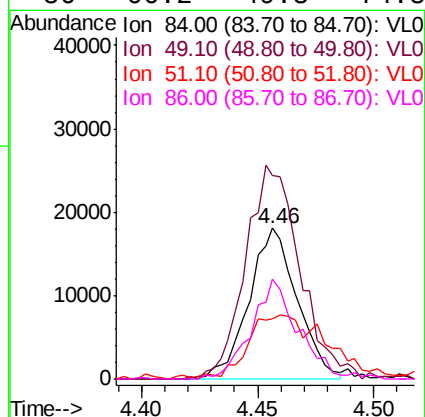
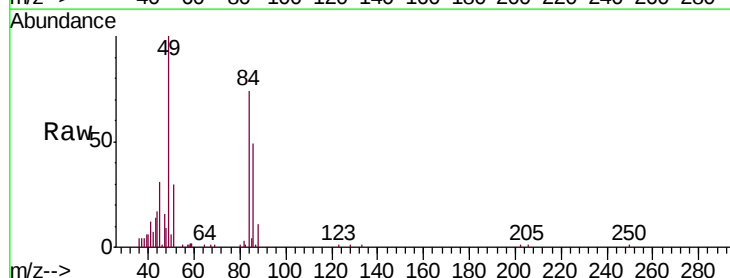
Ion Ratio Lower Upper

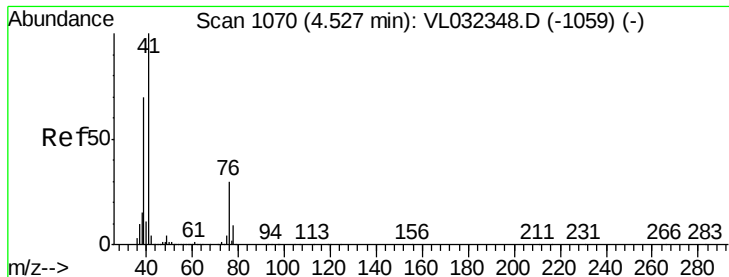
84 100

49 133.3 117.3 175.9

51 39.4 36.6 55.0

86 66.2 49.8 74.8

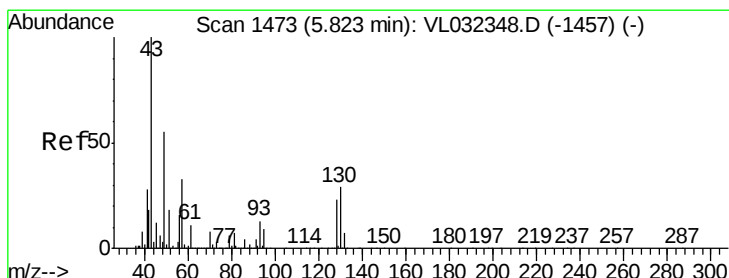
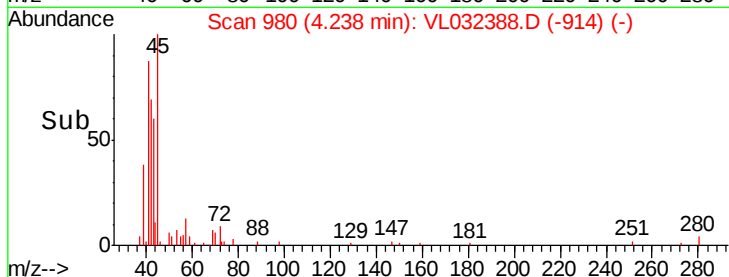
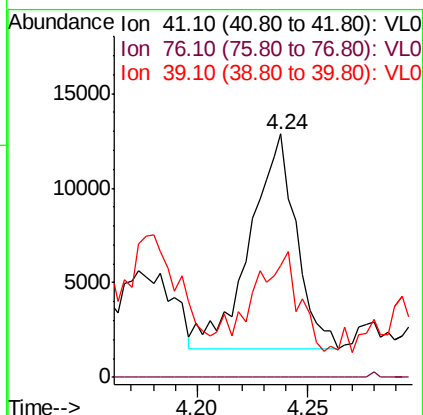
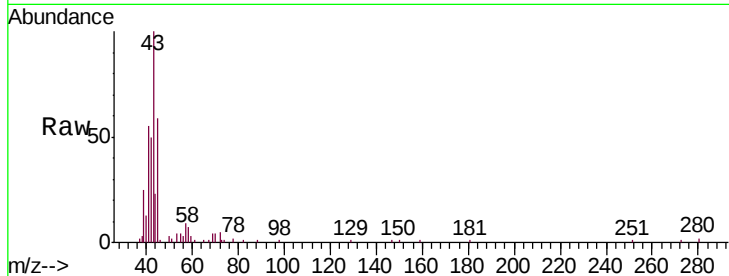




#21
 Allyl Chloride
 Concen: 0.149 ppbv
 RT: 4.24 min Scan# 980
 Delta R.T. -0.29 min
 Lab File: VL032388.D
 Acq: 16 Aug 2018 22:23

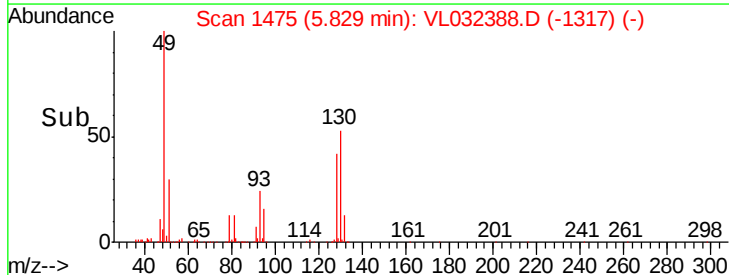
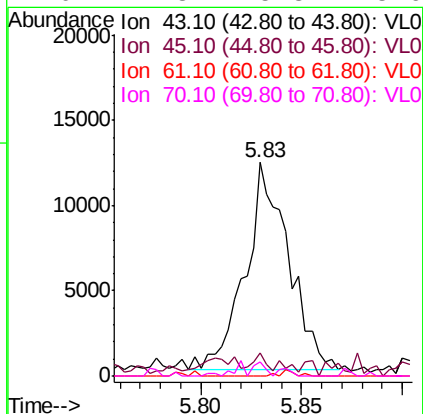
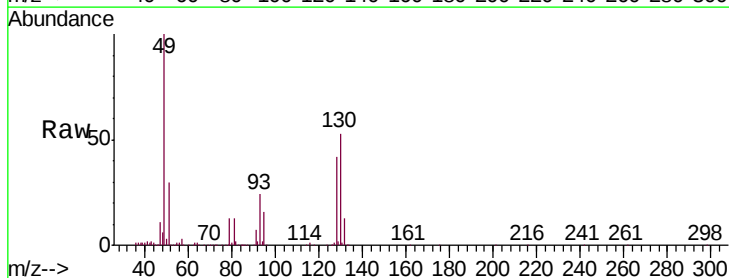
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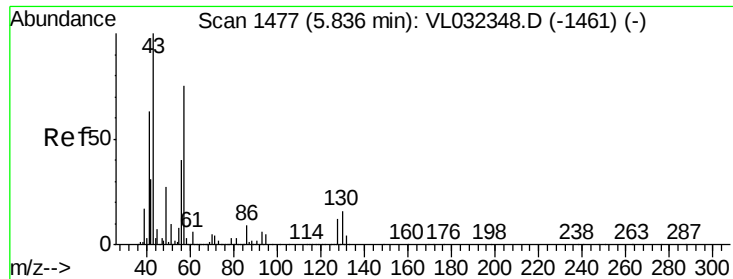
Tgt Ion	Ratio	Lower	Upper
41	100		
76	0.0	22.9	34.3#
39	0.0	57.6	86.4#



#25
 Ethyl Acetate
 Concen: 0.049 ppbv
 RT: 5.83 min Scan# 1475
 Delta R.T. 0.01 min
 Lab File: VL032388.D
 Acq: 16 Aug 2018 22:23

Tgt Ion	Ratio	Lower	Upper
43	100		
45	7.2	7.9	11.9#
61	0.0	7.4	11.2#
70	1.8	5.8	8.6#

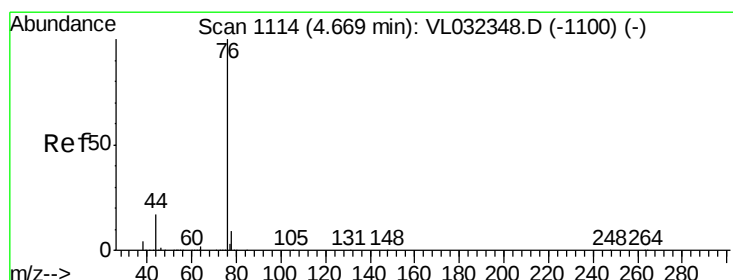
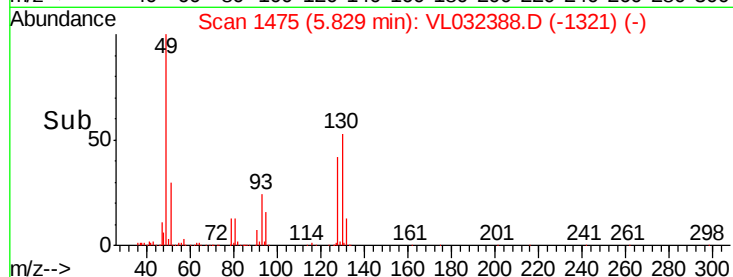
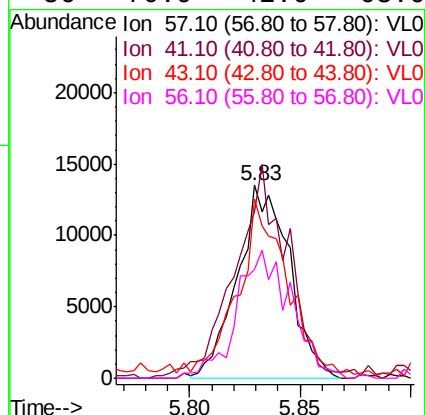
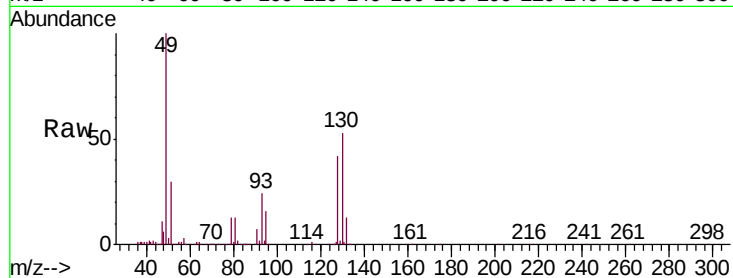




#26
Hexane
Concen: 0.131 ppbv
RT: 5.83 min Scan# 1475
Delta R.T. -0.01 min
Lab File: VL032388.D
Acq: 16 Aug 2018 22:23

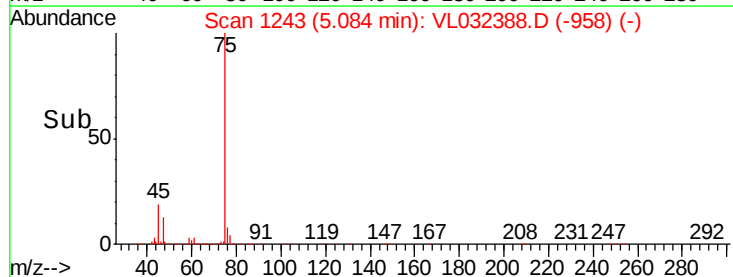
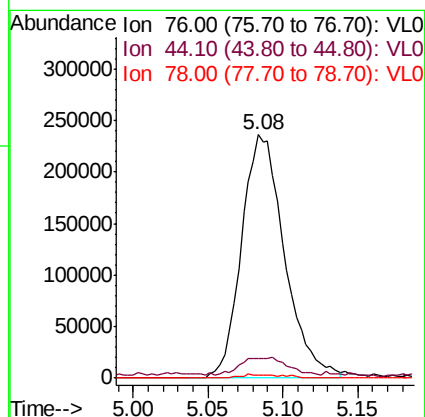
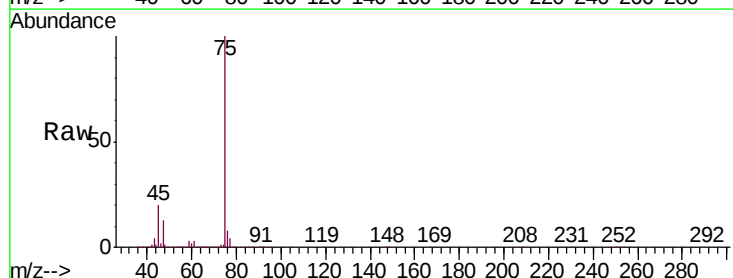
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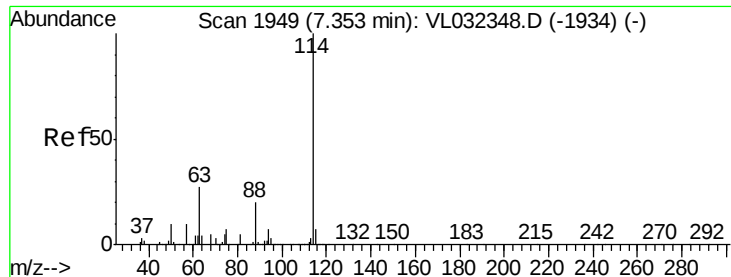
Tgt Ion: 57 Resp: 21861
Ion Ratio Lower Upper
57 100
41 115.5 68.0 102.0#
43 90.6 175.3 262.9#
56 70.9 42.0 63.0#



#27
Carbon Disulfide
Concen: 3.042 ppbv
RT: 5.08 min Scan# 1243
Delta R.T. 0.41 min
Lab File: VL032388.D
Acq: 16 Aug 2018 22:23

Tgt Ion: 76 Resp: 472213
Ion Ratio Lower Upper
76 100
44 8.3 14.4 21.6#
78 1.5 7.4 11.0#

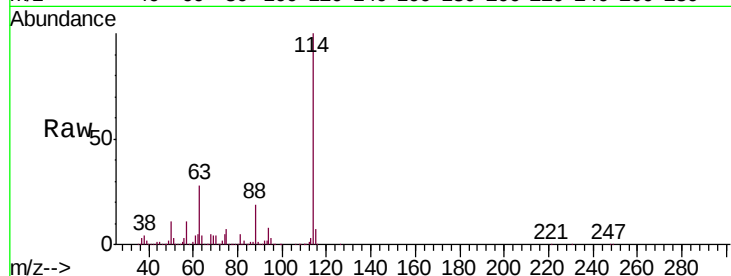




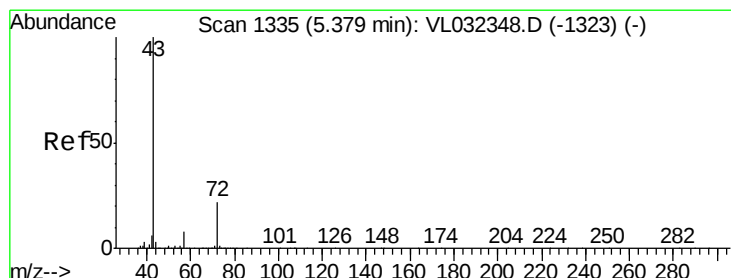
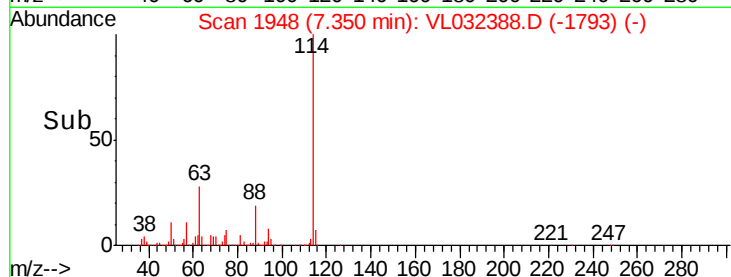
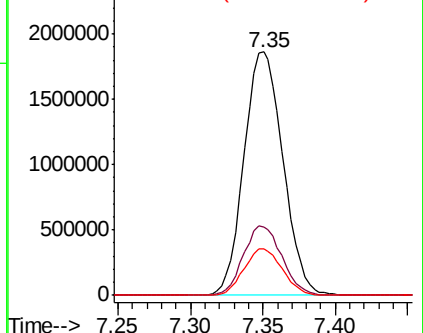
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.35 min Scan# 1948
 Delta R.T. -0.00 min
 Lab File: VL032388.D
 Acq: 16 Aug 2018 22:23

Instrument :
 MSVOA_L
 ClientSampleId :
 SG05-MIVIDL

Tgt Ion:114 Resp: 3491372
 Ion Ratio Lower Upper
 114 100
 63 28.4 22.0 33.0
 88 19.0 15.3 22.9

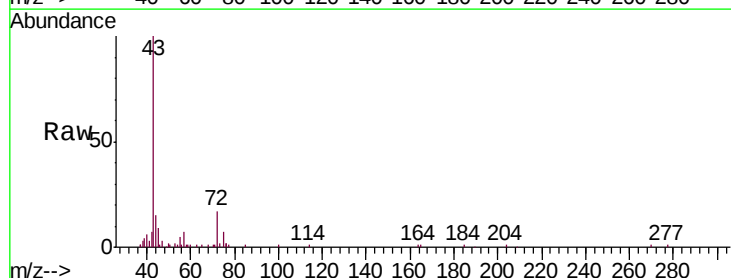


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

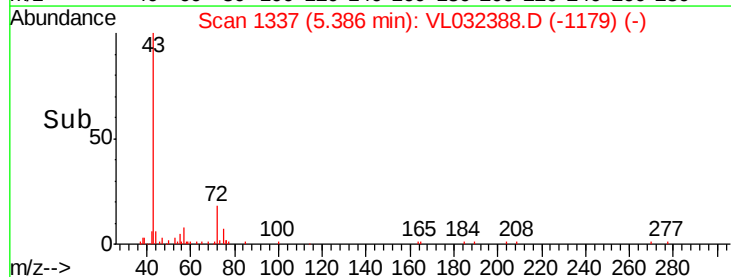
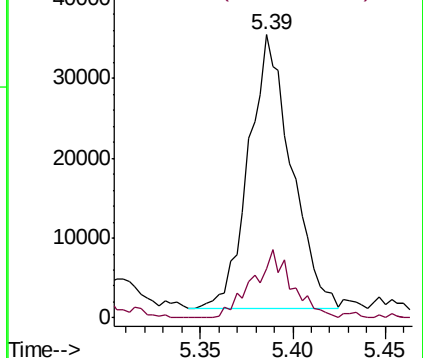


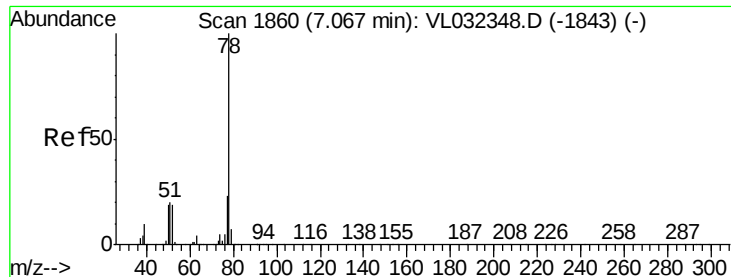
#34
 2-Butanone
 Concen: 0.232 ppbv
 RT: 5.39 min Scan# 1337
 Delta R.T. 0.01 min
 Lab File: VL032388.D
 Acq: 16 Aug 2018 22:23

Tgt Ion: 43 Resp: 55198
 Ion Ratio Lower Upper
 43 100
 72 24.6 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: 0.031 ppbv

RT: 7.07 min Scan# 1860

Delta R.T. 0.00 min

Lab File: VL032388.D

Acq: 16 Aug 2018 22:23

Instrument :

MSVOA_L

ClientSampleId :

SG05-MIVIDL

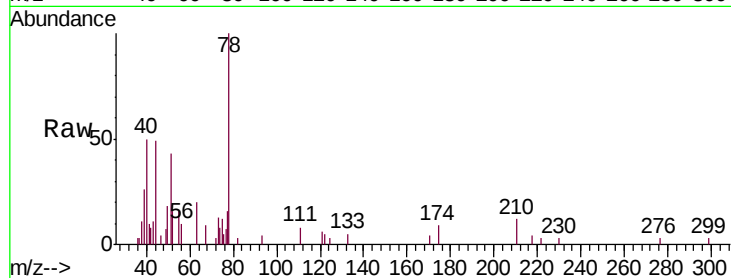
Tgt Ion: 78 Resp: 9179

Ion Ratio Lower Upper

78 100

77 15.5 18.0 27.0#

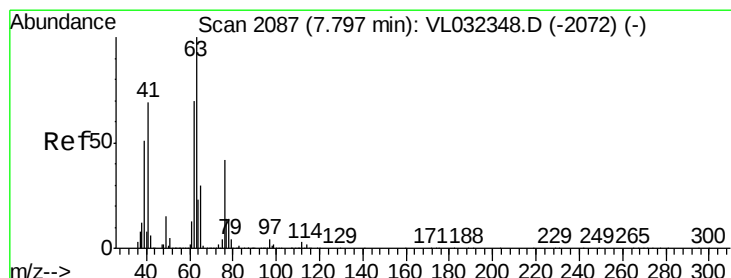
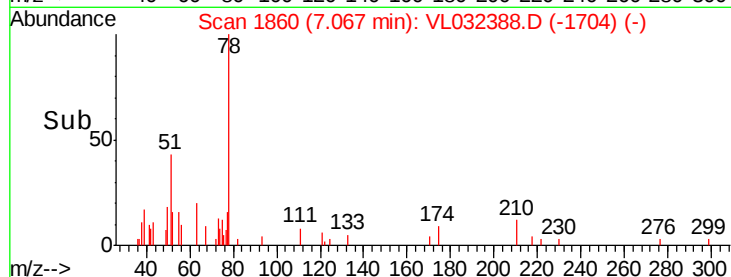
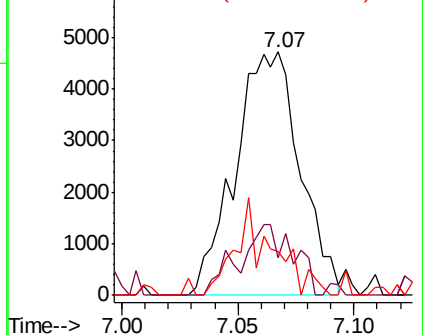
50 18.1 15.1 22.7



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: 7.941 ppbv

RT: 7.35 min Scan# 1947

Delta R.T. -0.45 min

Lab File: VL032388.D

Acq: 16 Aug 2018 22:23

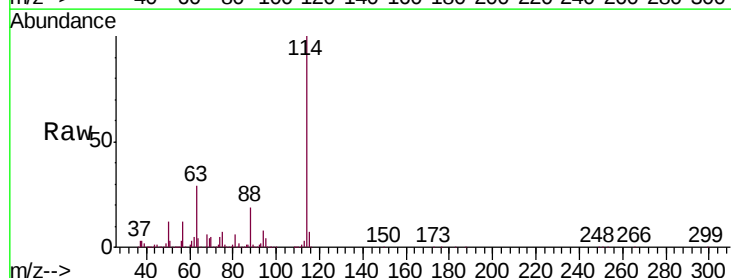
Tgt Ion: 63 Resp: 981911

Ion Ratio Lower Upper

63 100

41 0.2 55.5 83.3#

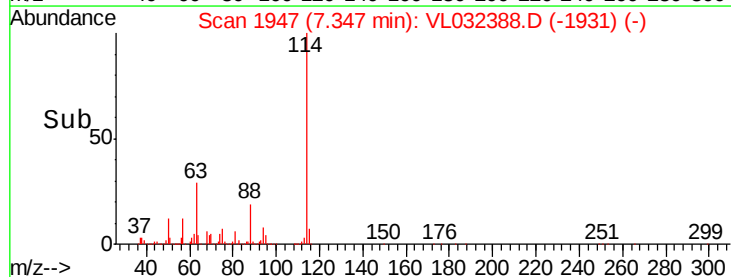
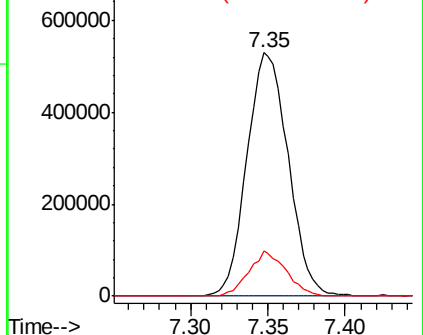
62 18.4 56.3 84.5#

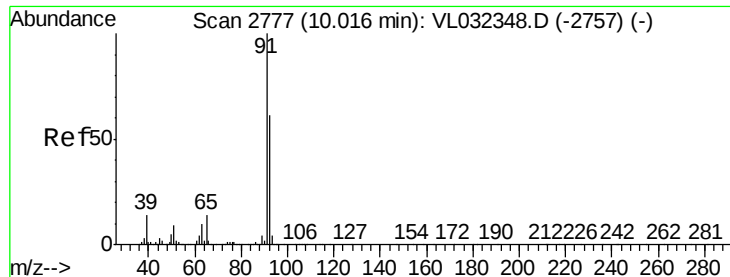


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#53

Toluene

Concen: 0.049 ppbv

RT: 10.01 min Scan# 2776

Delta R.T. -0.00 min

Lab File: VL032388.D

Acq: 16 Aug 2018 22:23

Instrument :

MSVOA_L

ClientSampleId :

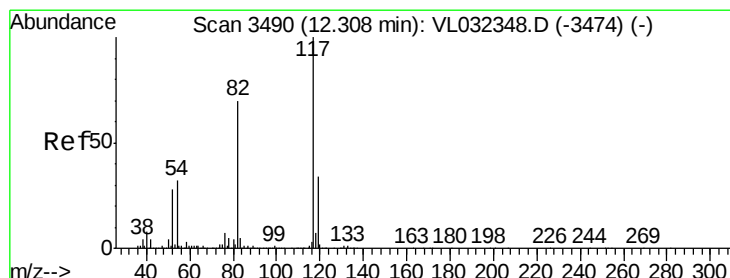
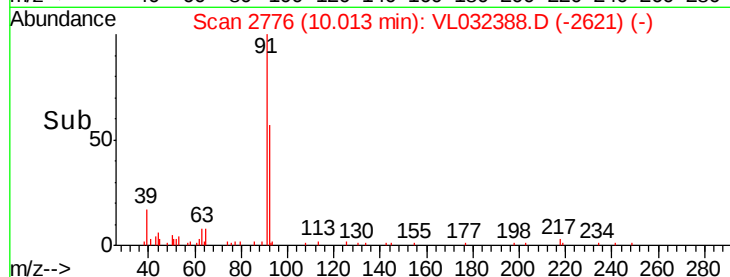
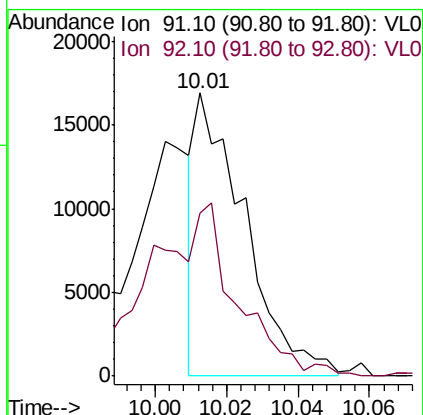
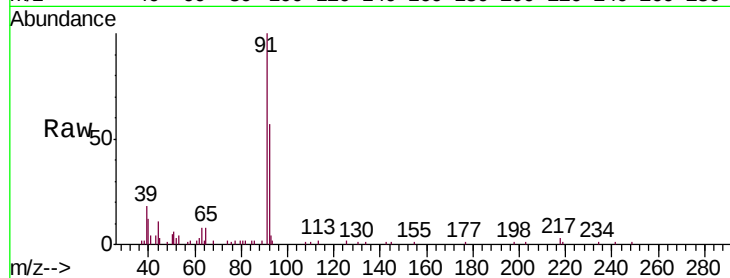
SG05-MIVIDL

Tgt Ion: 91 Resp: 16060

Ion Ratio Lower Upper

91 100

92 112.4 48.7 73.1#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.31 min Scan# 3489

Delta R.T. -0.00 min

Lab File: VL032388.D

Acq: 16 Aug 2018 22:23

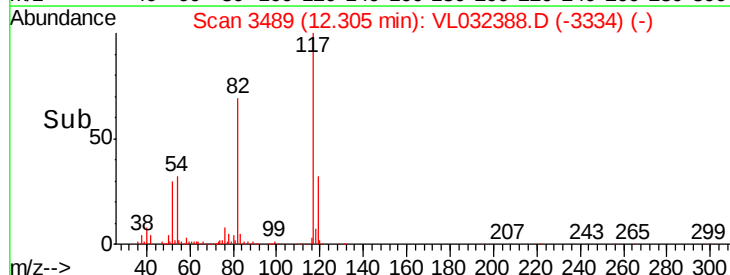
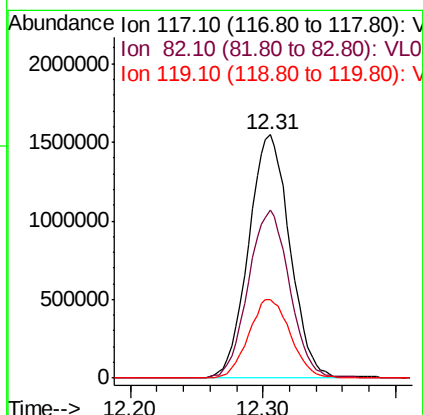
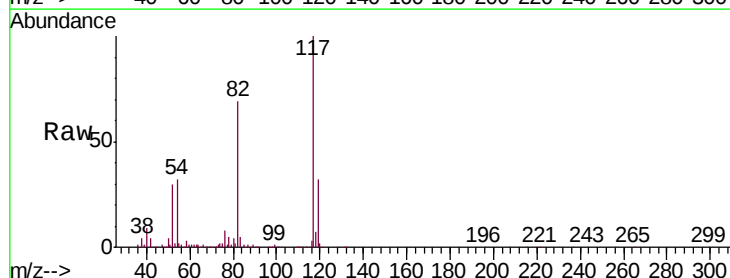
Tgt Ion: 117 Resp: 3356281

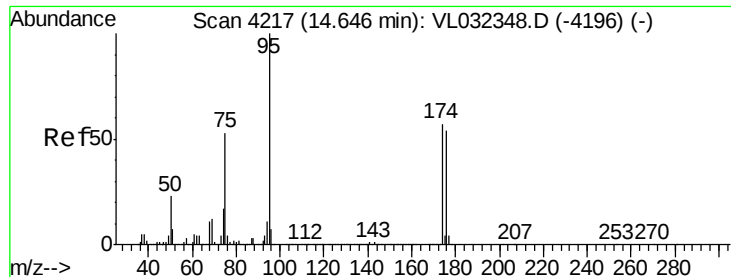
Ion Ratio Lower Upper

117 100

82 69.8 55.1 82.7

119 33.0 46.0 69.0#

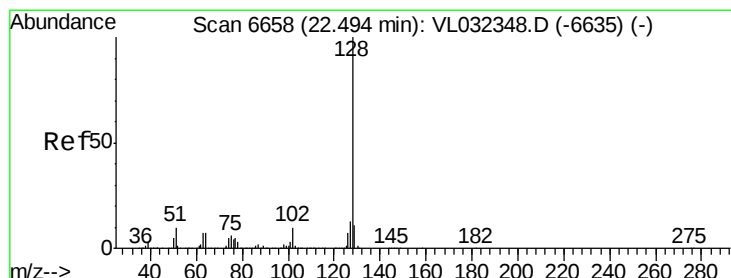
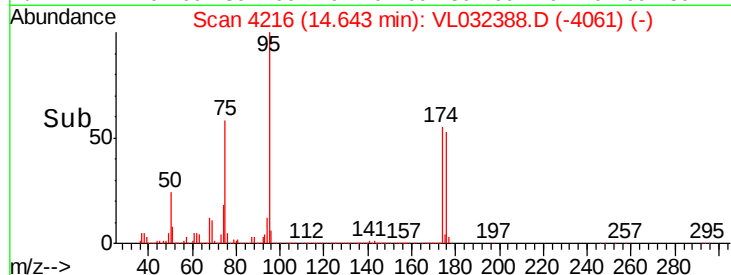
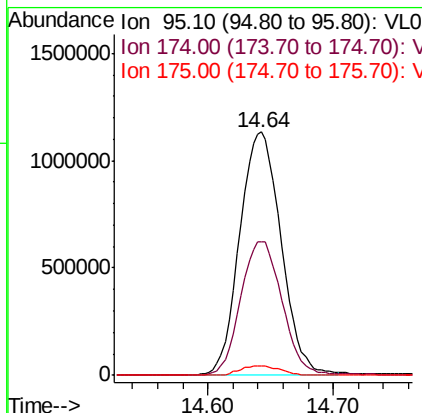
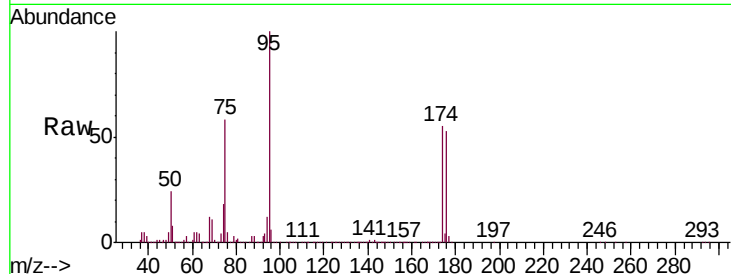




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.149 ppbv
 RT: 14.64 min Scan# 4216
 Delta R.T. -0.00 min
 Lab File: VL032388.D
 Acq: 16 Aug 2018 22:23

Instrument :
 MSVOA_L
 ClientSampleId :
 SG05-MIVIDL

Tgt Ion: 95 Resp: 2598739
 Ion Ratio Lower Upper
 95 100
 174 55.7 46.2 69.4
 175 4.0 3.4 5.0



#79
 Naphthalene
 Concen: 0.328 ppbv
 RT: 22.48 min Scan# 6655
 Delta R.T. -0.01 min
 Lab File: VL032388.D
 Acq: 16 Aug 2018 22:23

Tgt Ion: 128 Resp: 347
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.3 15.5#
 129 0.0 8.6 13.0#

