

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121621\
 Data File : VL038197.D
 Acq On : 16 Dec 2021 20:09
 Operator : SY/AP
 Sample : M5136-02DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 17 05:09:39 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Nov 18 13:16:09 2021
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1053221	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2703044	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2289189	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1732409	10.49	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.90%

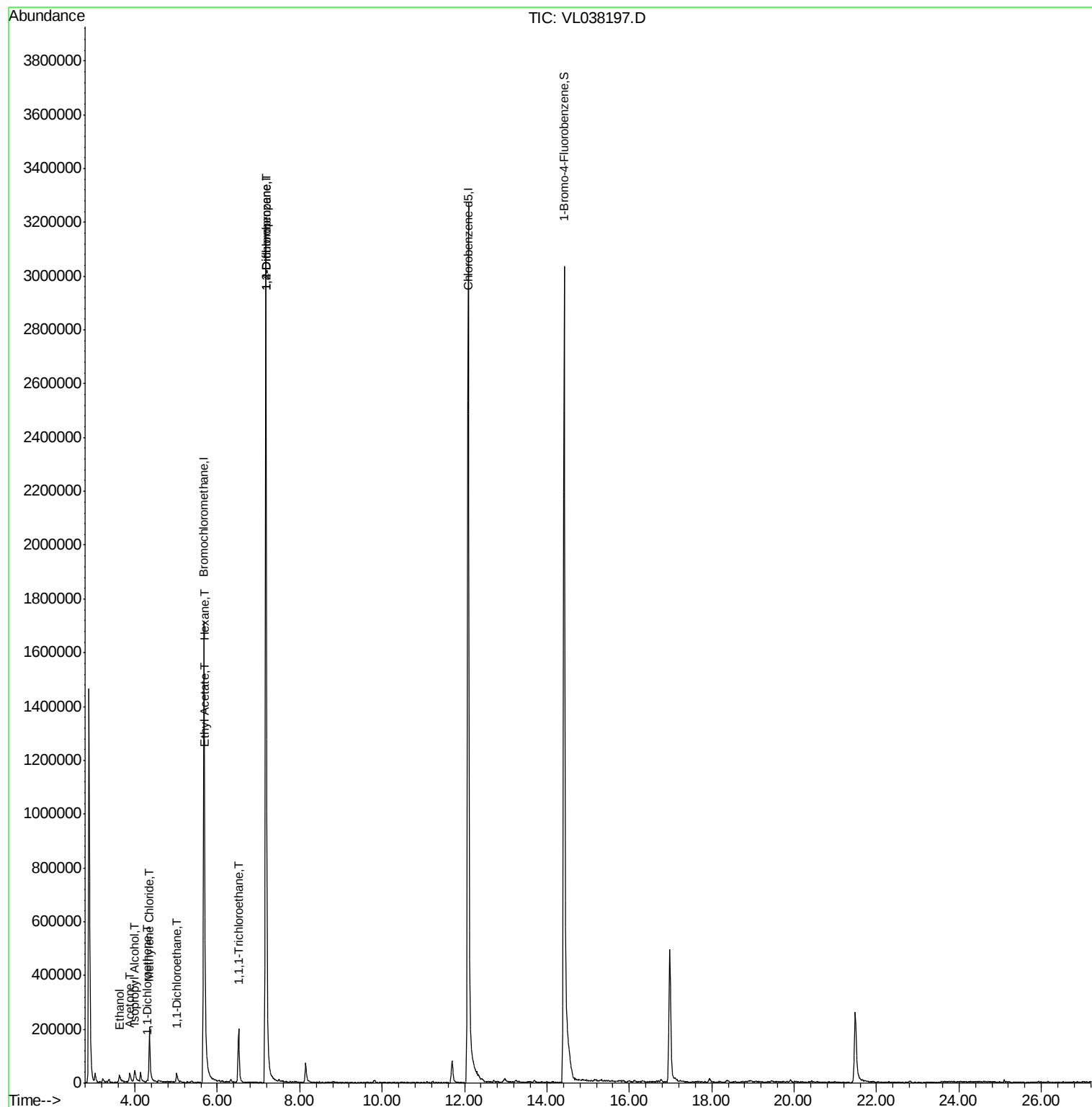
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Ethanol	3.63	45	21419	2.721	ppbv #	57
15) Acetone	3.87	43	34290	0.376	ppbv	96
18) 1,1-Dichloroethene	4.30	96	1825	0.034	ppbv #	67
19) Isopropyl Alcohol	3.99	45	24493	0.371	ppbv #	72
20) Methylene Chloride	4.35	84	84457	1.651	ppbv	95
24) 1,1-Dichloroethane	5.02	63	27364	0.249	ppbv	98
25) Ethyl Acetate	5.70	43	30854	0.102	ppbv #	87
26) Hexane	5.69	57	35050	0.240	ppbv #	49
32) 1,1,1-Trichloroethane	6.52	97	133580	0.611	ppbv	95
39) 1,2-Dichloropropane	7.18	63	721667	6.977	ppbv #	27

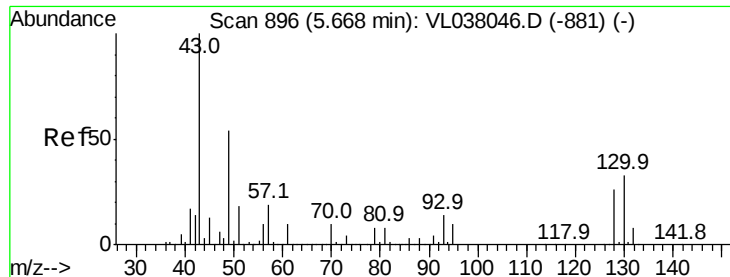
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Nov 18 13:16:09 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Dec 2021 20:09

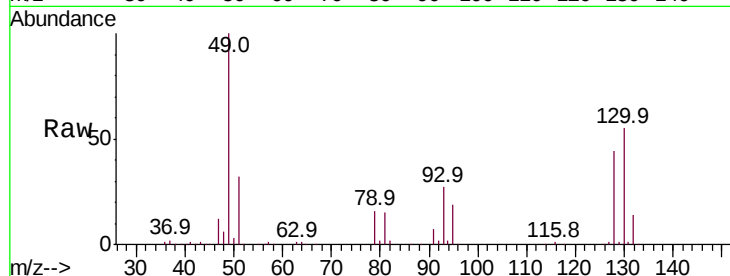
Tot Ion: 49 Resp: 1053221

Ion Ratio Lower Upper

49 100

128 46.3 26.5 79.5

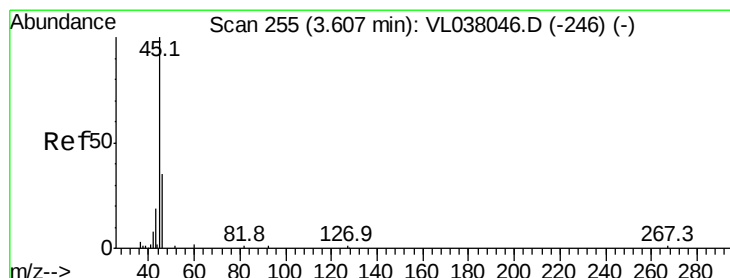
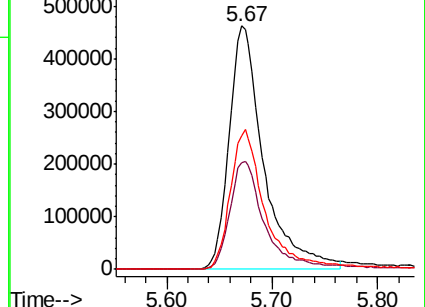
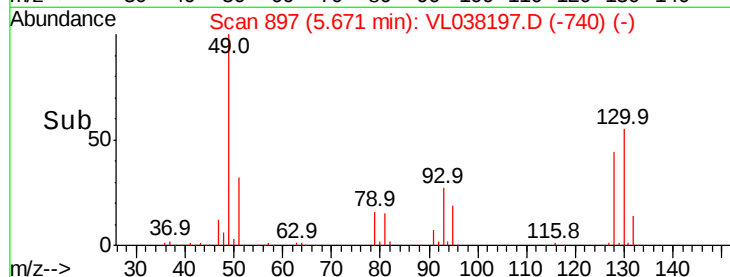
130 59.5 32.5 97.4



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



#13

Ethanol

Concen: 2.721 ppbv

RT: 3.63 min Scan# 261

Delta R.T. 0.02 min

Lab File: VL038197.D

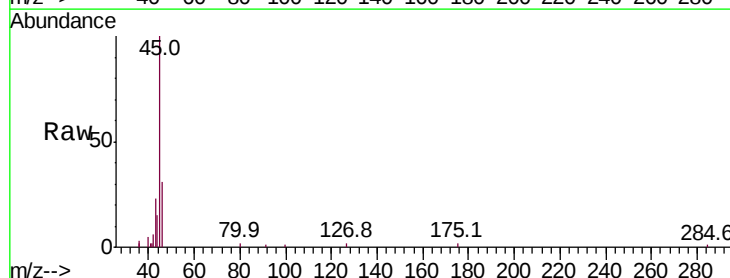
Acq: 16 Dec 2021 20:09

Tgt Ion: 45 Resp: 21419

Ion Ratio Lower Upper

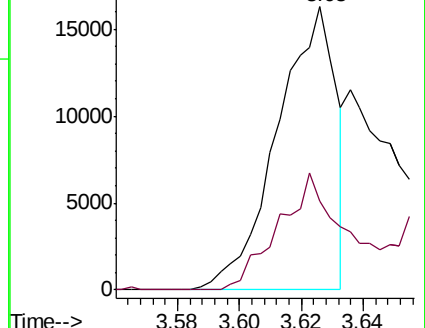
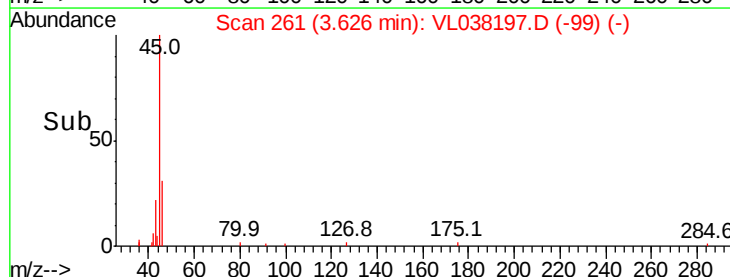
45 100

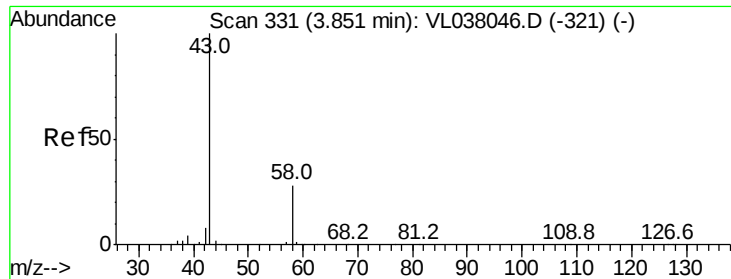
46 71.6 17.6 70.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.376 ppbv

RT: 3.87 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

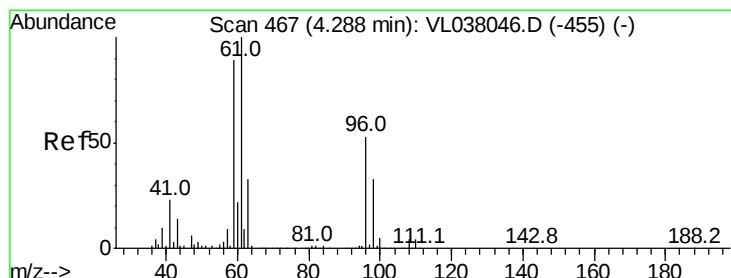
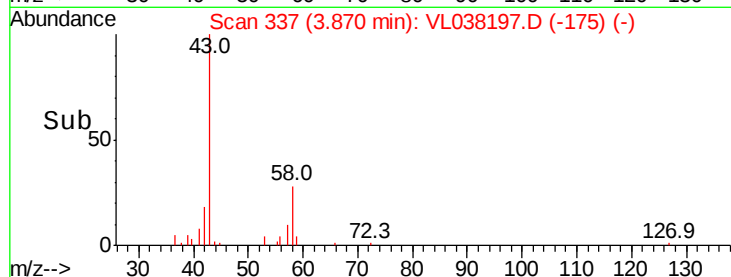
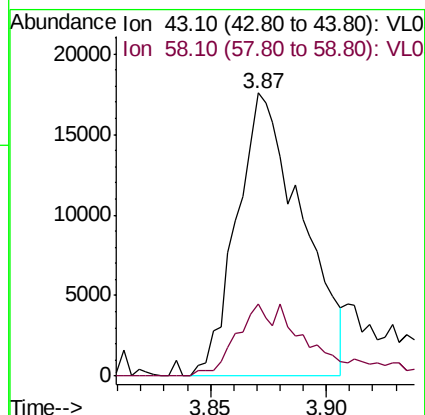
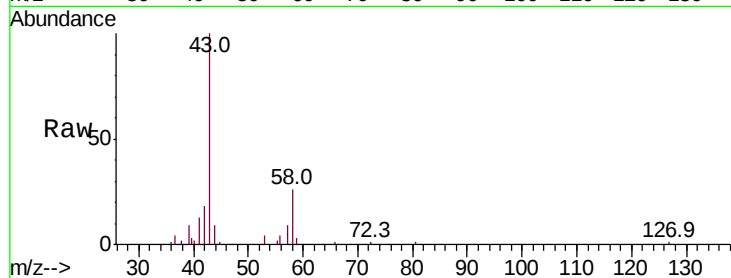
Acq: 16 Dec 2021 20:09

Tot Ion: 43 Resp: 34290

Ion Ratio Lower Upper

43 100

58 30.0 22.4 33.6



#18

1,1-Dichloroethene

Concen: 0.034 ppbv

RT: 4.30 min Scan# 471

Delta R.T. 0.01 min

Lab File: VL038197.D

Acq: 16 Dec 2021 20:09

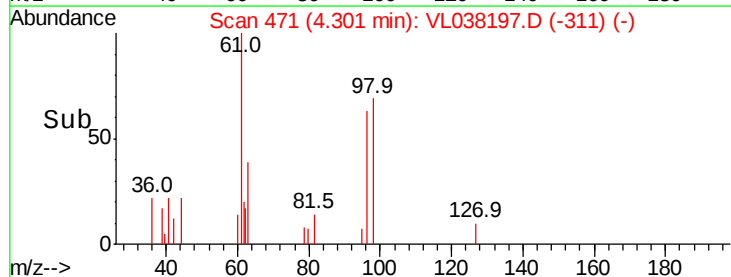
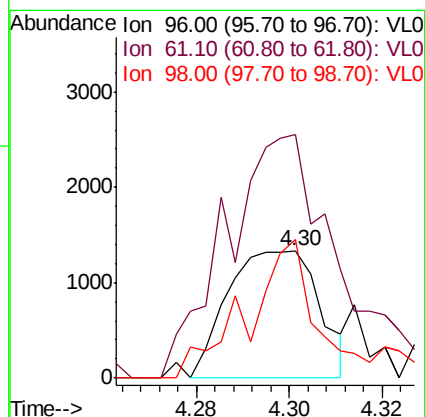
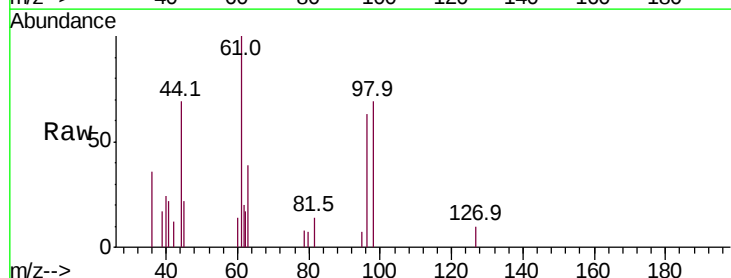
Tgt Ion: 96 Resp: 1825

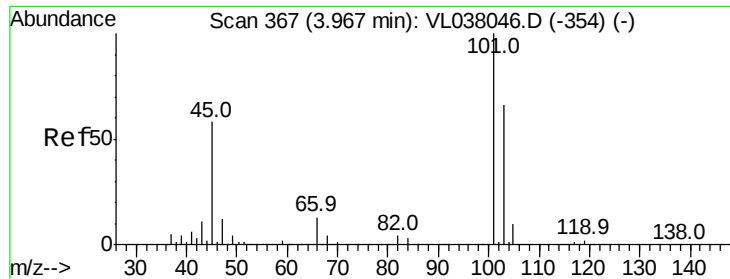
Ion Ratio Lower Upper

96 100

61 138.8 149.8 224.8#

98 87.9 50.2 75.2#





#19

Isopropyl Alcohol

Concen: 0.371 ppbv

RT: 3.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

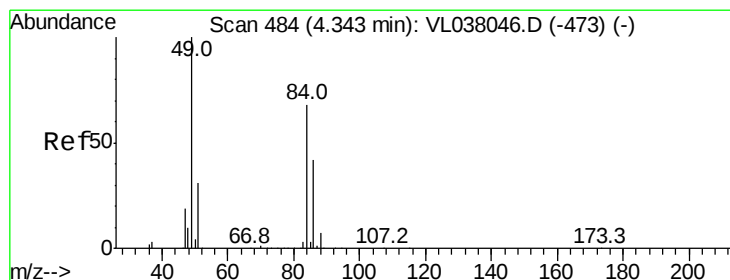
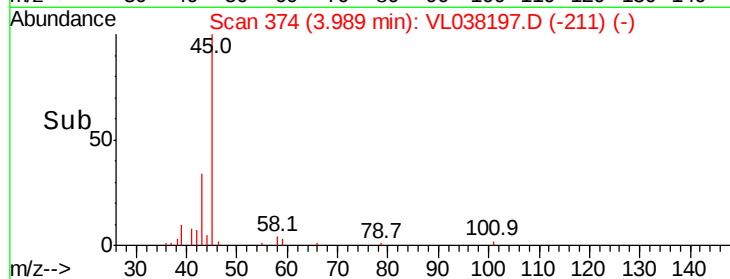
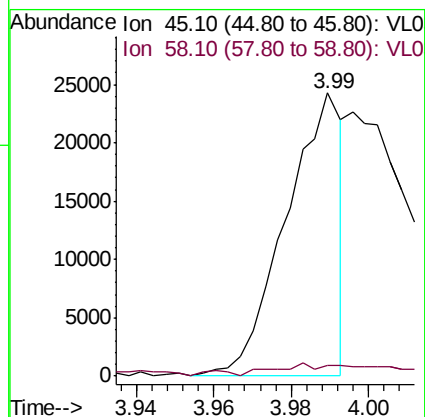
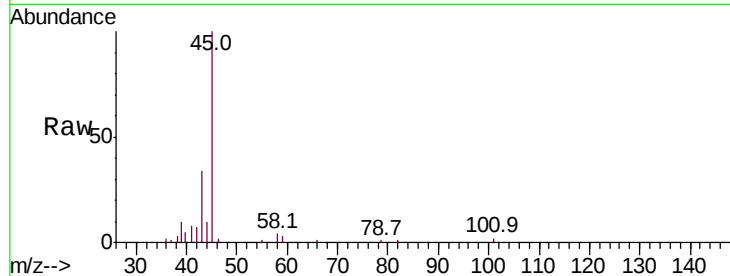
Acq: 16 Dec 2021 20:09

Tot Ion: 45 Resp: 24493

Ion Ratio Lower Upper

45 100

58 11.9 1.4 2.0#



#20

Methylene Chloride

Concen: 1.651 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.01 min

Lab File: VL038197.D

Acq: 16 Dec 2021 20:09

Tgt Ion: 84 Resp: 84457

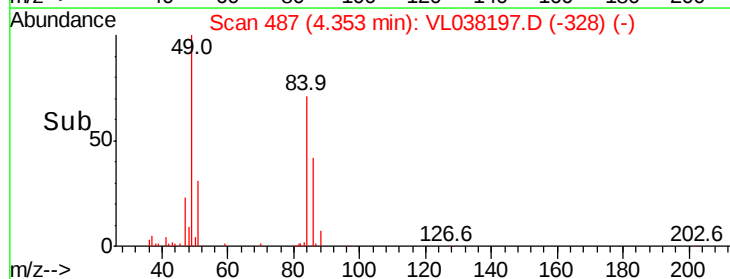
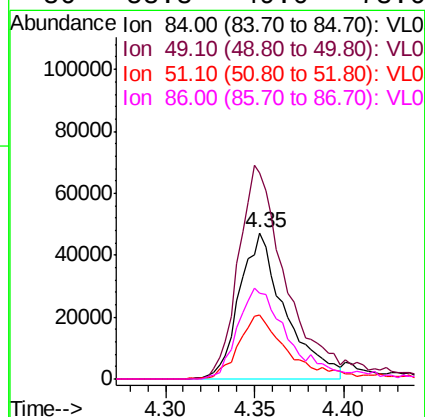
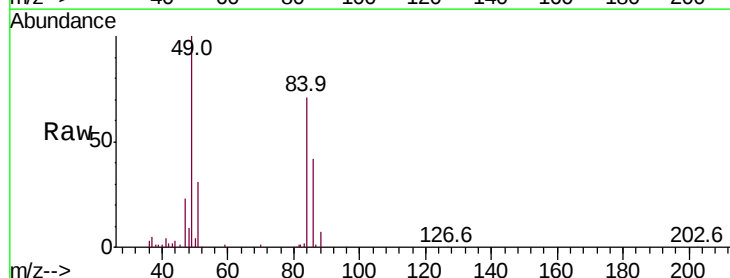
Ion Ratio Lower Upper

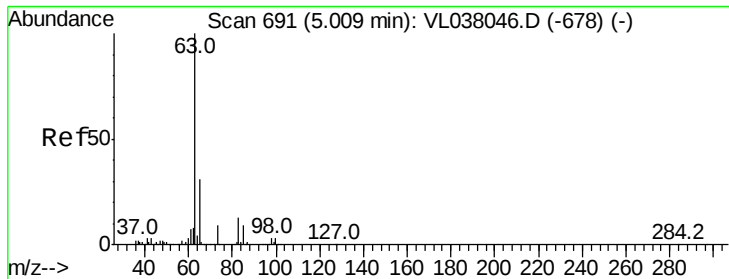
84 100

49 141.0 118.2 177.2

51 43.0 36.8 55.2

86 58.8 49.0 73.6





#24

1,1-Dichloroethane

Concen: 0.249 ppbv

RT: 5.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Dec 2021 20:09

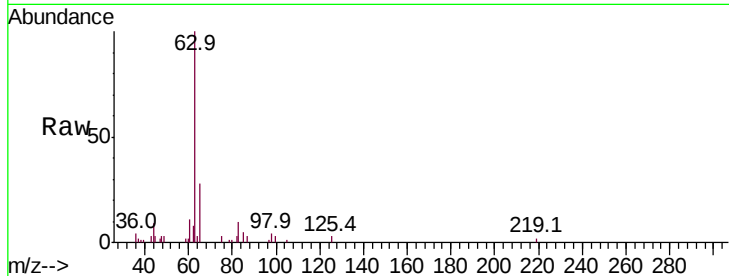
Tot Ion: 63 Resp: 27364

Ion Ratio Lower Upper

63 100

98 4.5 1.8 5.4

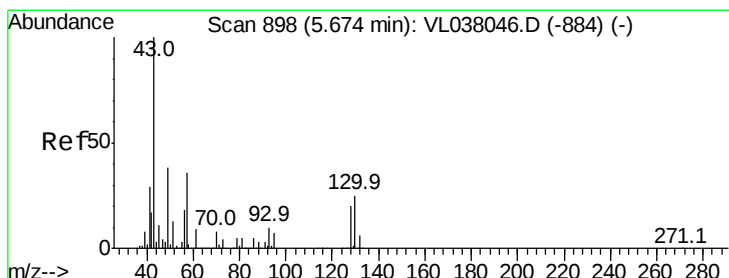
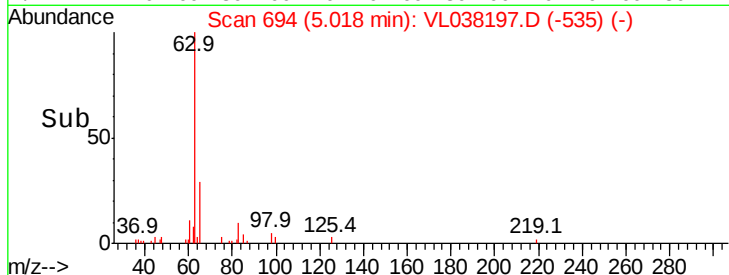
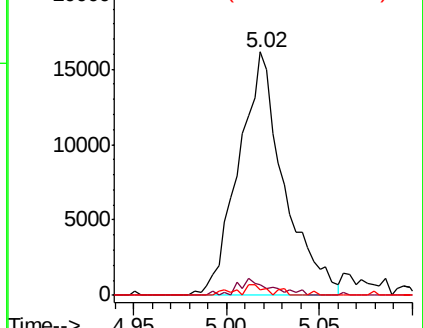
100 2.5 1.4 4.0



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



#25

Ethyl Acetate

Concen: 0.102 ppbv

RT: 5.70 min Scan# 905

Delta R.T. 0.02 min

Lab File: VL038197.D

Acq: 16 Dec 2021 20:09

Tgt Ion: 43 Resp: 30854

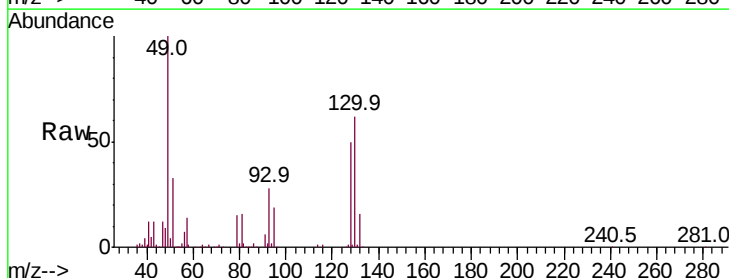
Ion Ratio Lower Upper

43 100

45 5.8 7.9 11.9#

61 4.2 7.8 11.6#

70 3.2 5.8 8.8#

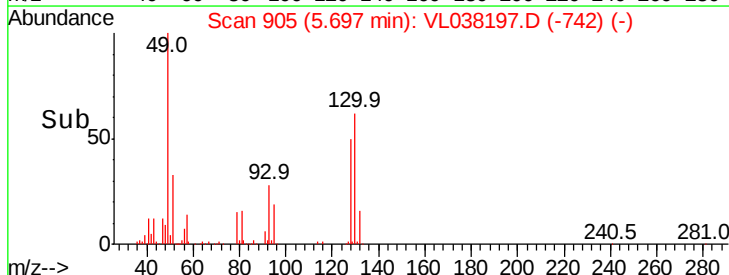
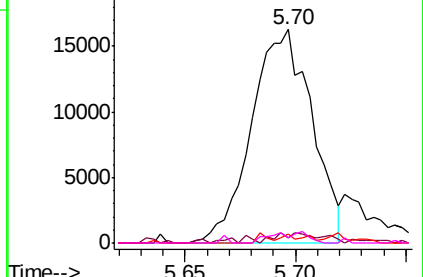


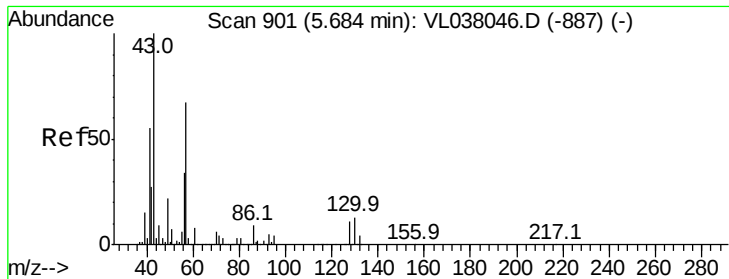
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

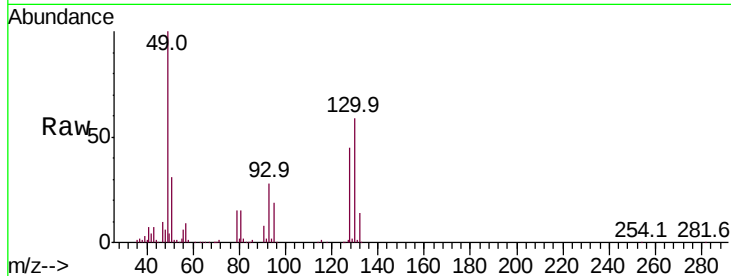
Ion 70.10 (69.80 to 70.80): VL0



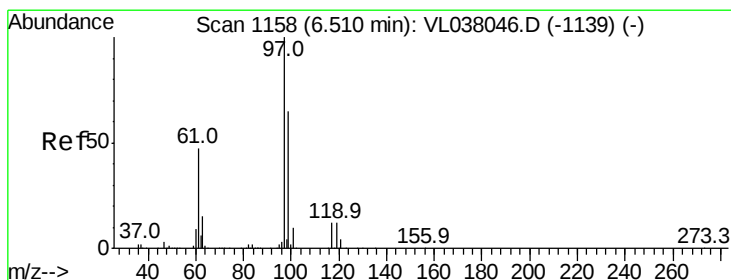
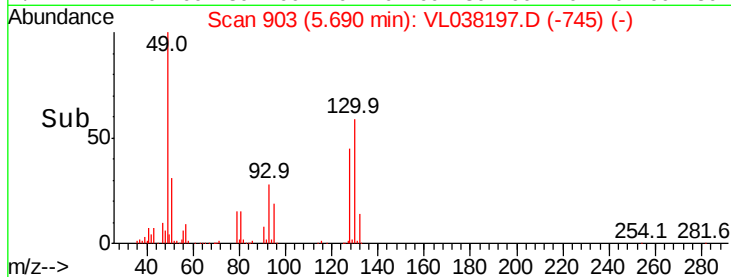
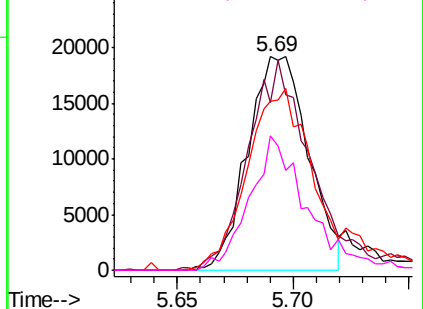


#26
Hexane
Concen: 0.240 ppbv
RT: 5.69
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 16 Dec 2021 20:09

Tot Ion:	57	Resp:	35050
Ion	Ratio	Lower	Upper
57	100		
41	108.6	71.4	107.2#
43	101.8	174.6	261.8#
56	61.6	43.2	64.8

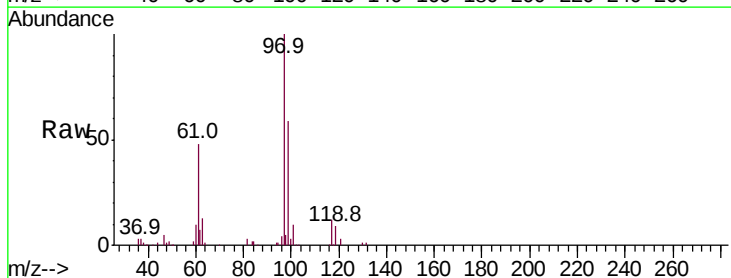


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

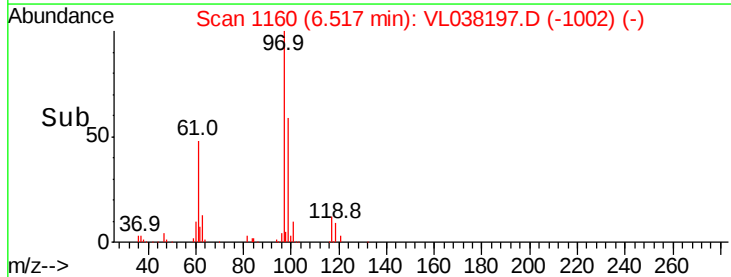
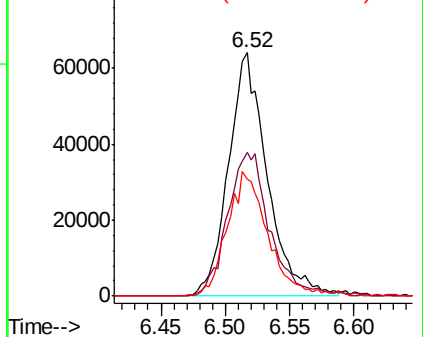


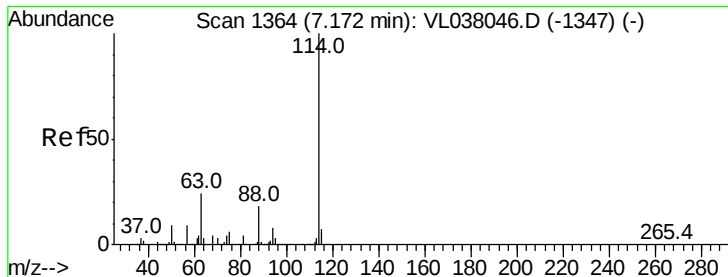
#32
1,1,1-Trichloroethane
Concen: 0.611 ppbv
RT: 6.52 min Scan# 1160
Delta R.T. 0.01 min
Lab File: VL038197.D
Acq: 16 Dec 2021 20:09

Tgt Ion:	97	Resp:	133580
Ion	Ratio	Lower	Upper
97	100		
99	64.8	52.2	78.4
61	53.9	37.7	56.5



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Dec 2021 20:09

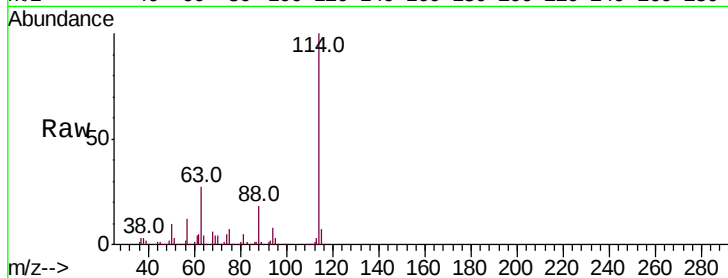
Tot Ion:114 Resp: 2703044

Ion Ratio Lower Upper

114 100

63 27.3 19.7 29.5

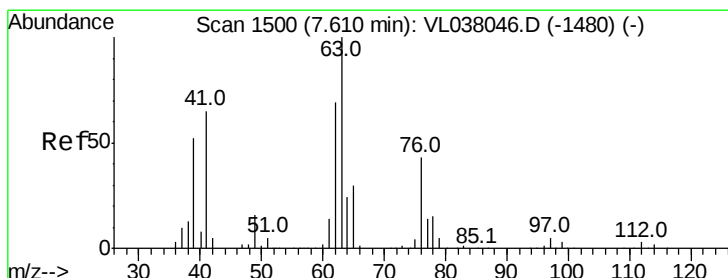
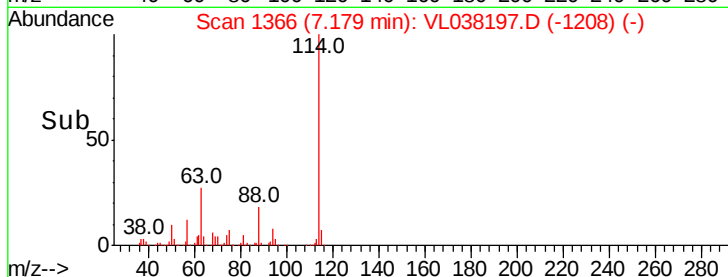
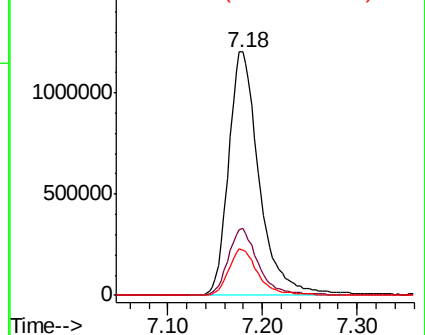
88 18.7 14.4 21.6



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



#39

1,2-Dichloropropane

Concen: 6.977 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. -0.43 min

Lab File: VL038197.D

Acq: 16 Dec 2021 20:09

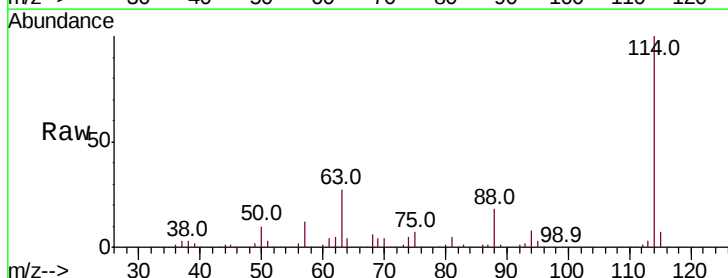
Tgt Ion: 63 Resp: 721667

Ion Ratio Lower Upper

63 100

41 0.0 52.3 78.5#

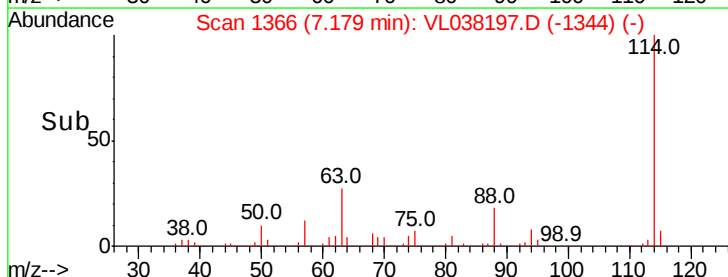
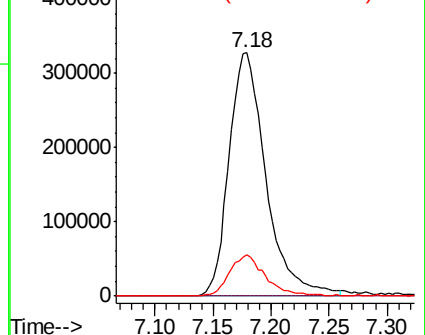
62 16.9 55.1 82.7#

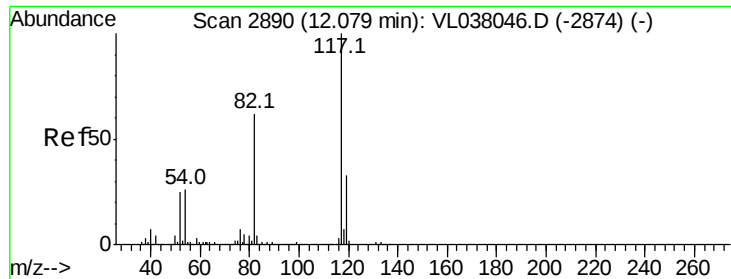


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

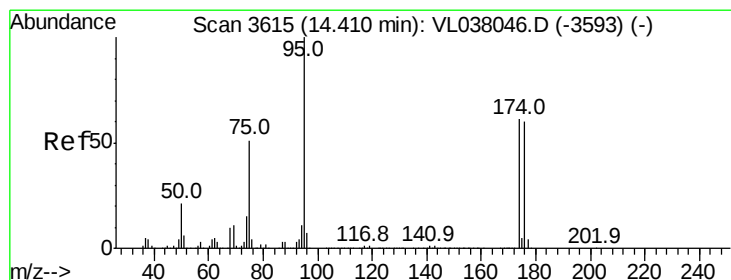
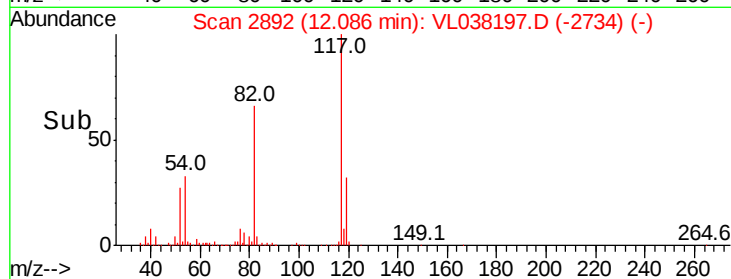
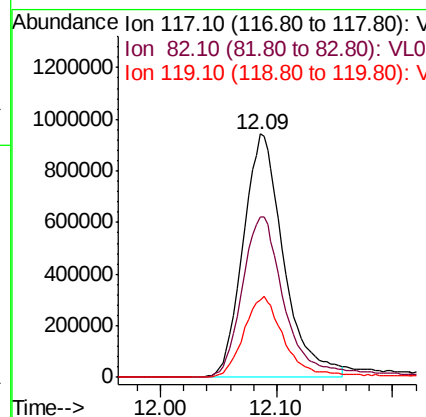
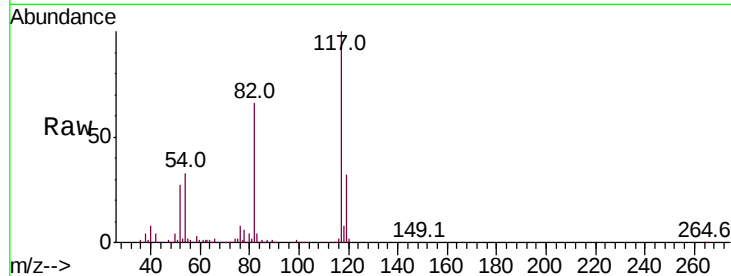




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 16 Dec 2021 20:09

Tot Ion: 117 Resp: 2289189

Ion	Ratio	Lower	Upper
117	100		
82	73.5	52.8	79.2
119	34.3	26.8	40.2



#68
1-Bromo-4-Fluorobenzene
Concen: 10.492 ppbv
RT: 14.42 min Scan# 3617
Delta R.T.: 0.01 min
Lab File: VL038197.D
Acq: 16 Dec 2021 20:09

Tgt Ion: 95 Resp: 1732409

Ion	Ratio	Lower	Upper
95	100		
174	63.8	53.1	79.7
175	4.5	4.0	6.0

