

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112921\
 Data File : VL038131.D
 Acq On : 29 Nov 2021 12:25
 Operator : SY/AP
 Sample : M4805-11DL2 100X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-CURVY-BRIDE DL

Quant Time: Nov 30 05:15:34 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	5.68	49	979234	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2773782	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2486314	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1884714	10.51	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.10%

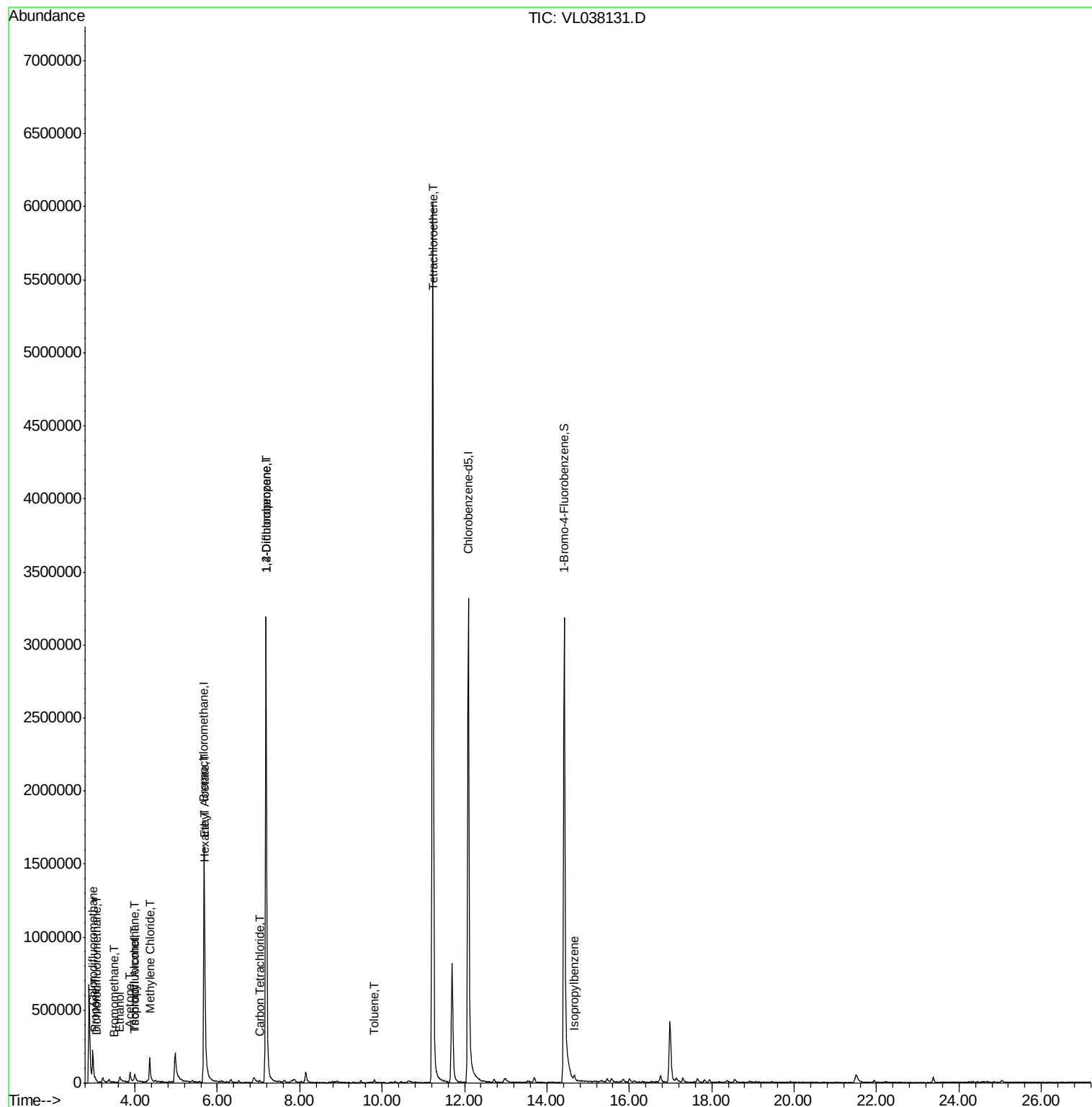
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	6346	0.039	ppbv #	87
3) Chlorodifluoromethane	2.98	51	184063	0.895	ppbv #	63
6) Bromomethane	3.49	94	1375	0.037	ppbv #	13
9) Propene	3.03	41	5867	0.077	ppbv #	47
11) Trichlorofluoromethane	3.97	101	6223	0.040	ppbv #	75
13) Ethanol	3.63	45	44393	6.066	ppbv	86
15) Acetone	3.88	43	83208	0.980	ppbv	92
19) Isopropyl Alcohol	4.00	45	54094	0.882	ppbv #	83
20) Methylene Chloride	4.36	84	74721	1.571	ppbv	97
25) Ethyl Acetate	5.70	43	51456	0.182	ppbv #	84
26) Hexane	5.70	57	30249	0.222	ppbv #	47
35) Carbon Tetrachloride	7.02	117	6848	0.035	ppbv #	92
39) 1,2-Dichloropropane	7.18	63	704783	6.640	ppbv #	27
52) Tetrachloroethene	11.23	164	1628398	15.906	ppbv	94
53) Toluene	9.81	91	9764	0.031	ppbv #	50
62) Isopropylbenzene	14.67	105	20449	0.045	ppbv	93

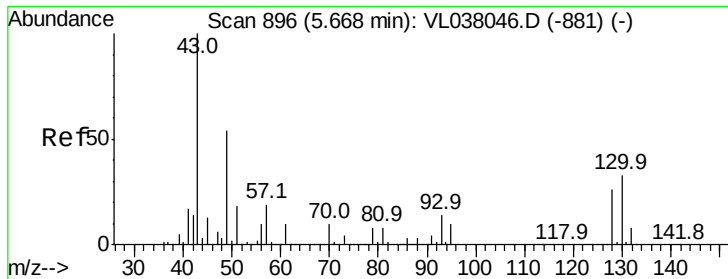
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111821AIR.M
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QLast Update : Thu Nov 18 13:16:09 2021
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SG-CURVY-BRIDEDL

Acq: 29 Nov 2021 12:25

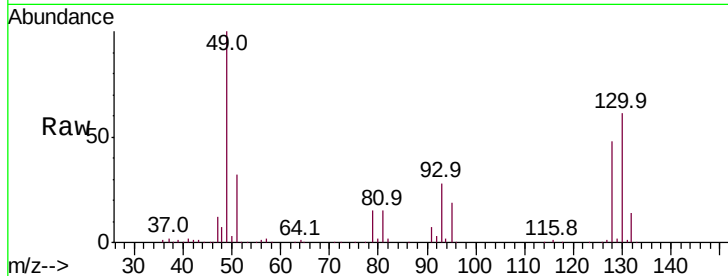
Tot Ion: 49 Resp: 979234

Ion Ratio Lower Upper

49 100

128 48.4 26.5 79.5

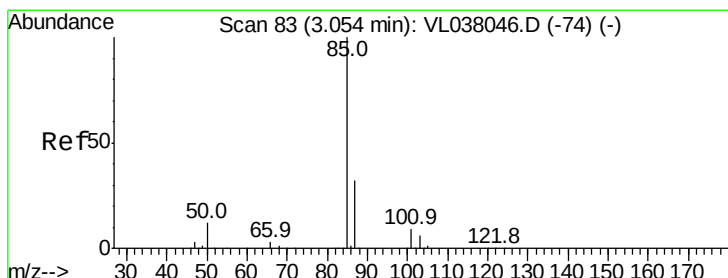
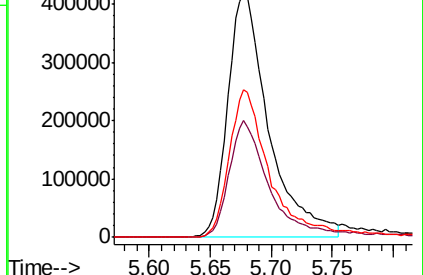
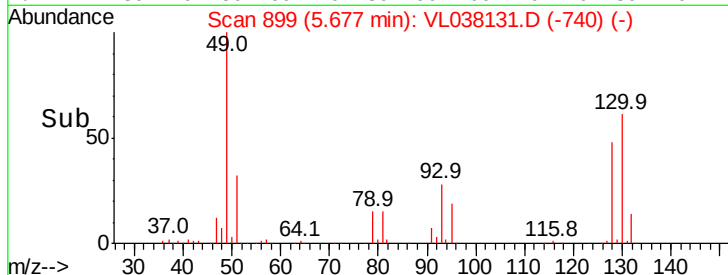
130 62.5 32.5 97.4



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: 0.039 ppbv

RT: 3.07 min Scan# 87

Delta R.T. 0.01 min

Lab File: VL038131.D

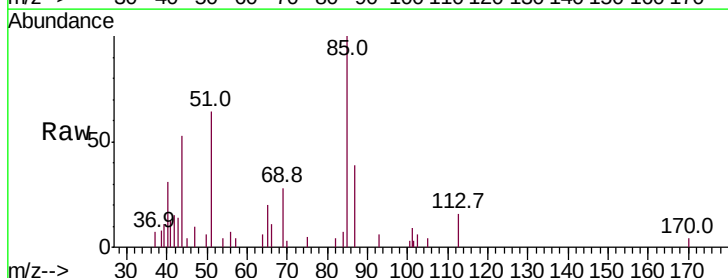
Acq: 29 Nov 2021 12:25

Tgt Ion: 85 Resp: 6346

Ion Ratio Lower Upper

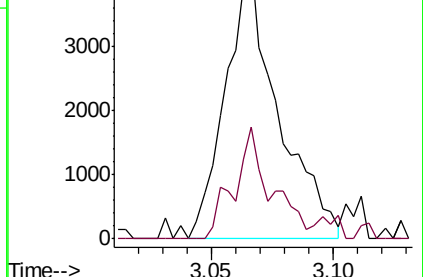
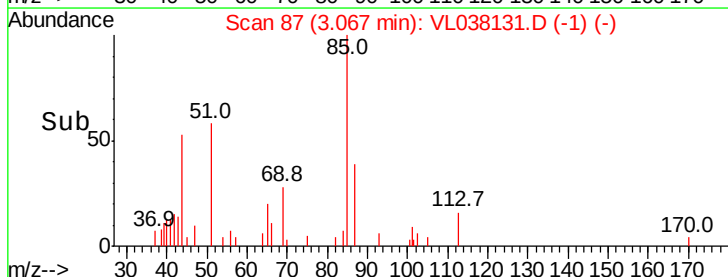
85 100

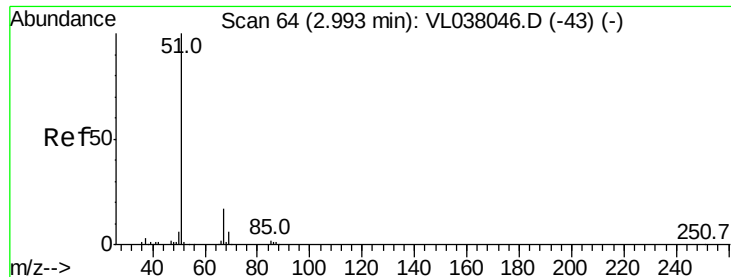
87 39.4 25.8 38.6#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.895 ppbv

RT: 2.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

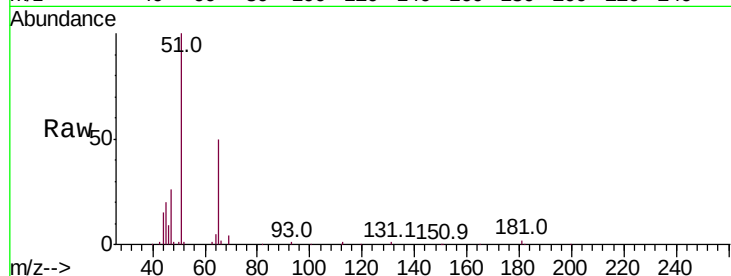
Acq: 29 Nov 2021 12:25 SG-CURVY-BRIDEDL

Tot Ion: 51 Resp: 184063

Ion Ratio Lower Upper

51 100

67 1.0 13.8 20.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.98

100000

80000

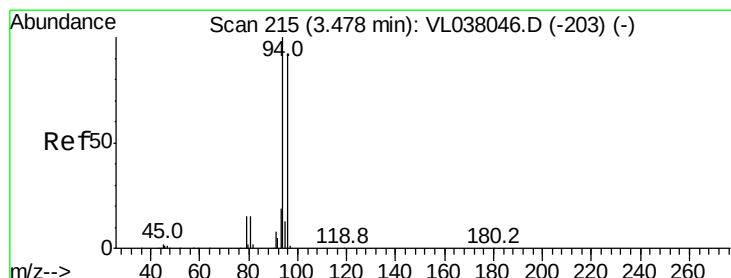
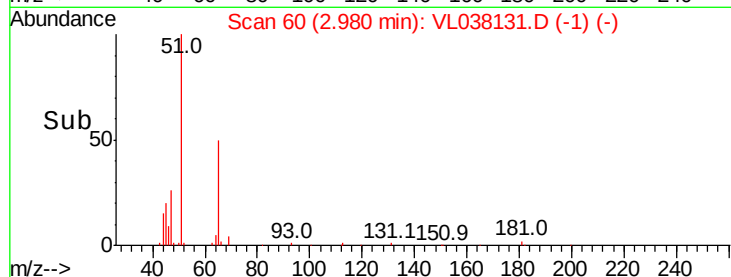
60000

40000

20000

0

Time-->



#6

Bromomethane

Concen: 0.037 ppbv

RT: 3.49 min Scan# 220

Delta R.T. 0.02 min

Lab File: VL038131.D

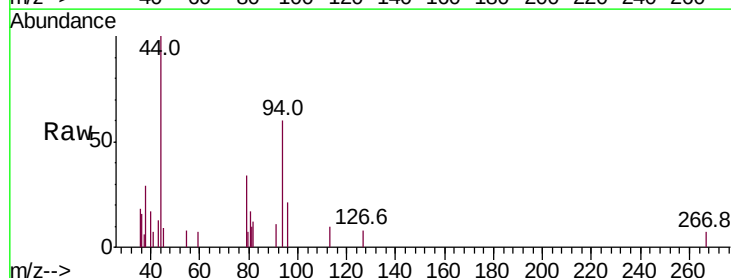
Acq: 29 Nov 2021 12:25

Tgt Ion: 94 Resp: 1375

Ion Ratio Lower Upper

94 100

96 9.1 73.9 110.9#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.49

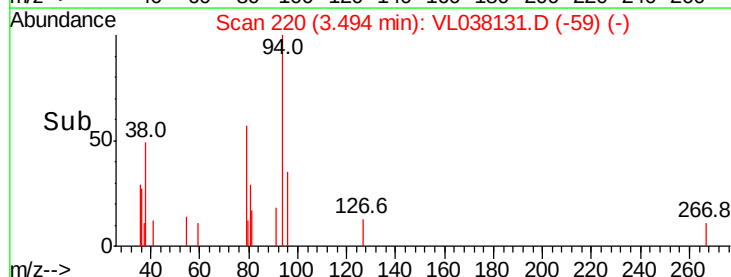
1500

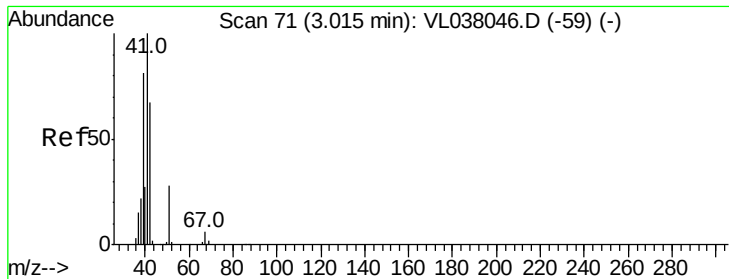
1000

500

0

Time-->





#9

Propene

Concen: 0.077 ppbv

RT: 3.03

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

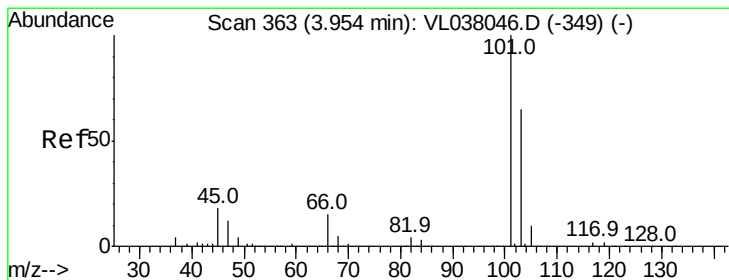
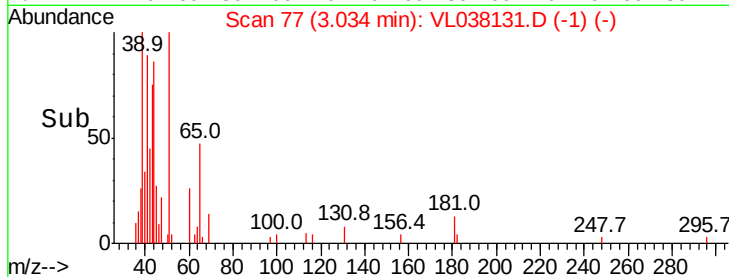
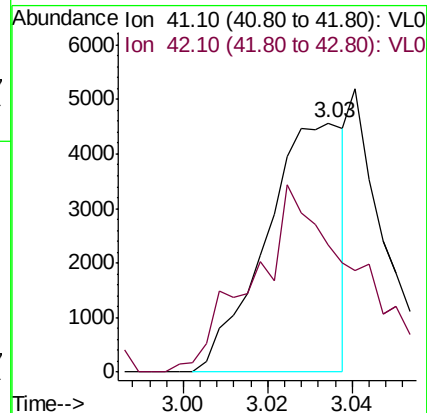
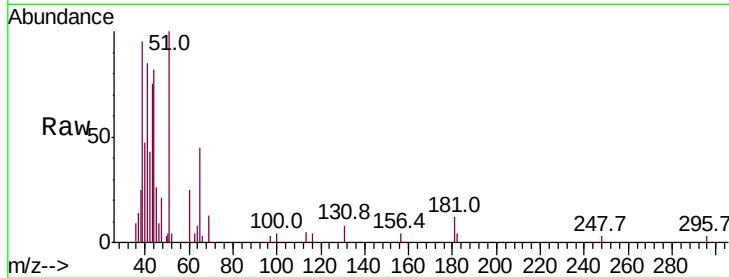
Acq: 29 Nov 2021 12:25

Tot Ion: 41 Resp: 5867

Ion Ratio Lower Upper

41 100

42 110.0 53.8 80.8#



#11

Trichlorofluoromethane

Concen: 0.040 ppbv

RT: 3.97 min Scan# 368

Delta R.T. 0.02 min

Lab File: VL038131.D

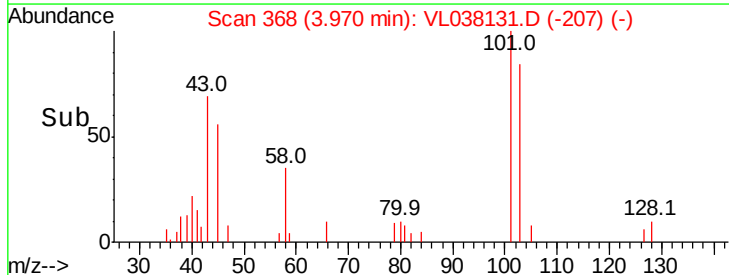
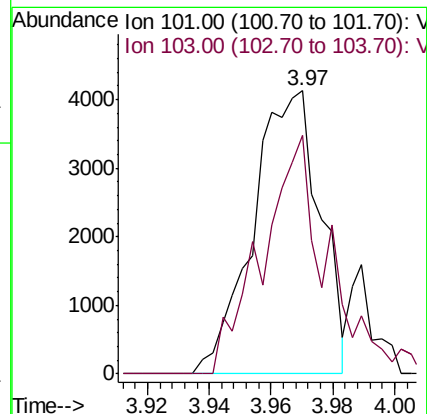
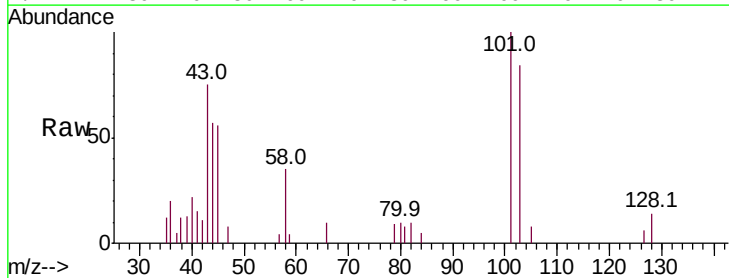
Acq: 29 Nov 2021 12:25

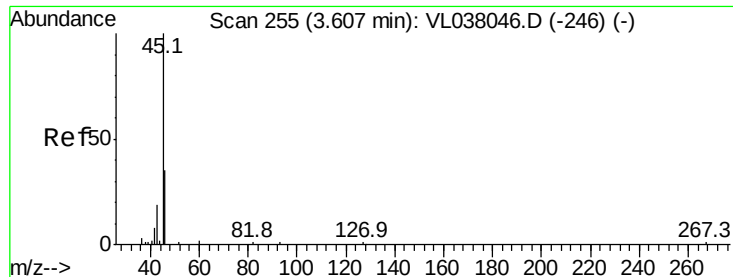
Tgt Ion: 101 Resp: 6223

Ion Ratio Lower Upper

101 100

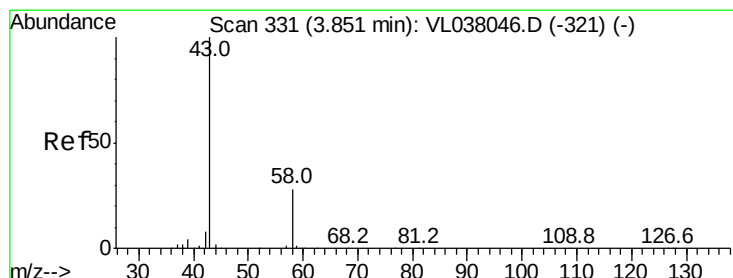
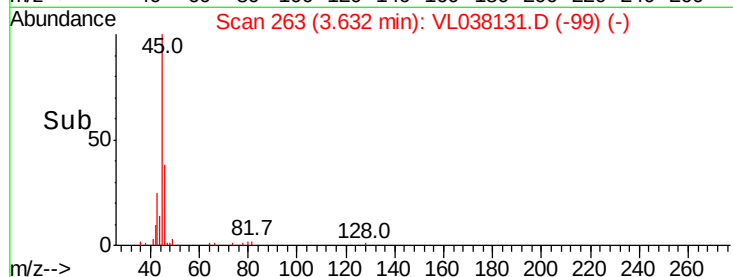
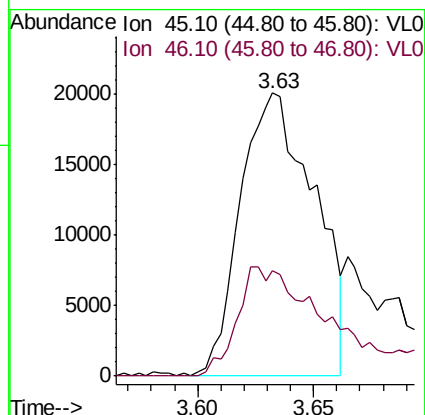
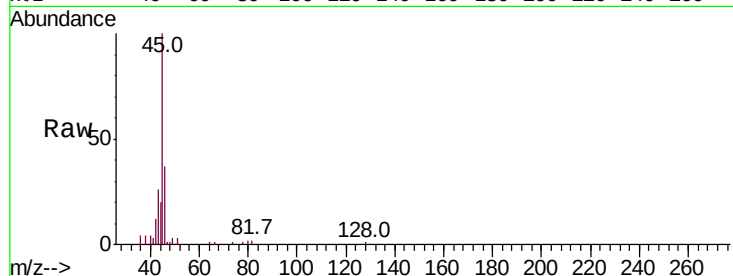
103 84.5 51.8 77.6#





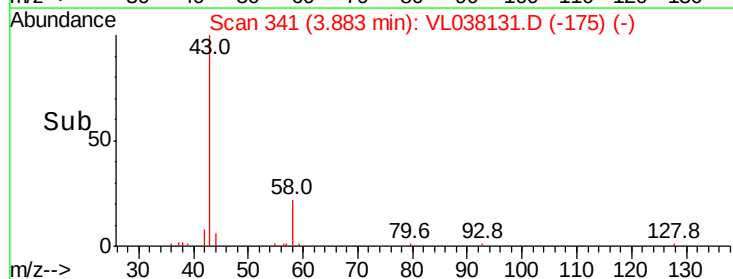
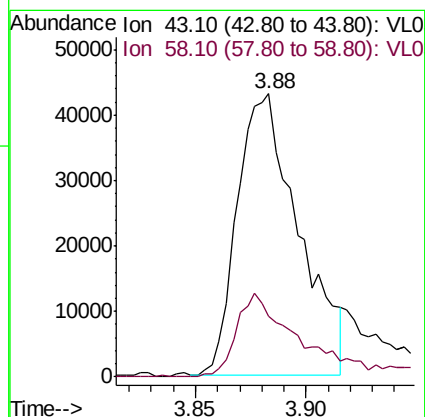
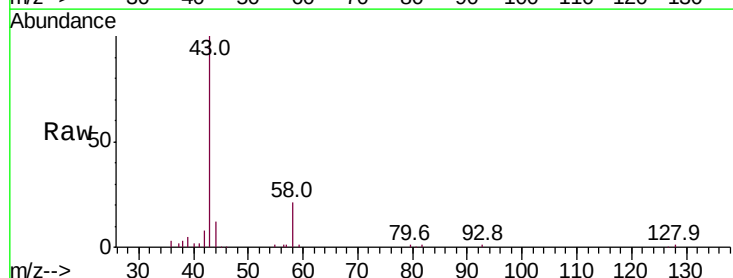
#13
Ethanol
Concen: 6.066 ppbv
RT: 3.63
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 29 Nov 2021 12:25 SG-CURVY-BRIDE

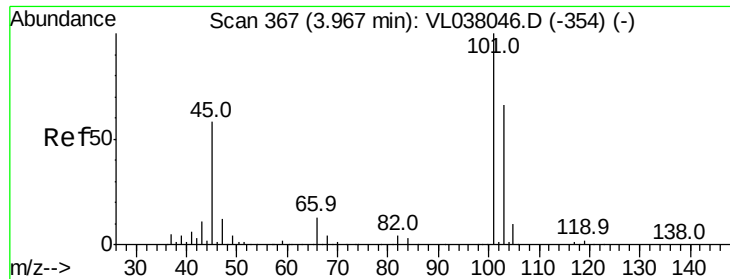
Tot Ion: 45 Resp: 44393
Ion Ratio Lower Upper
45 100
46 53.2 17.6 70.2



#15
Acetone
Concen: 0.980 ppbv
RT: 3.88 min Scan# 341
Delta R.T. 0.03 min
Lab File: VL038131.D
Acq: 29 Nov 2021 12:25

Tgt Ion: 43 Resp: 83208
Ion Ratio Lower Upper
43 100
58 32.4 22.4 33.6





#19

Isopropyl Alcohol

Concen: 0.882 ppbv

RT: 4.00 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

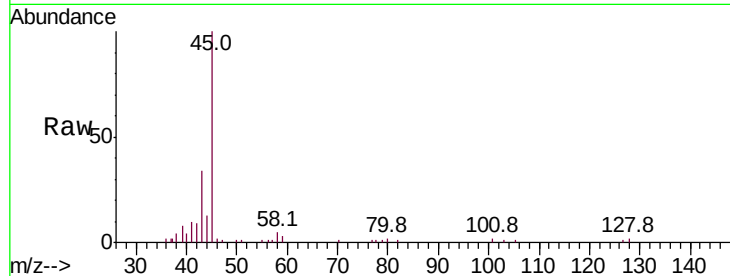
Acq: 29 Nov 2021 12:25 SG-CURVY-BRIDEDL

Tot Ion: 45 Resp: 54094

Ion Ratio Lower Upper

45 100

58 8.0 1.4 2.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.00

30000

20000

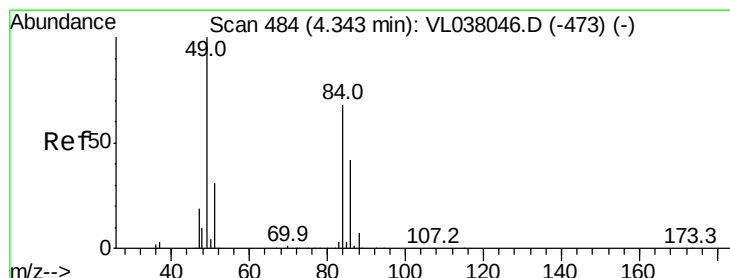
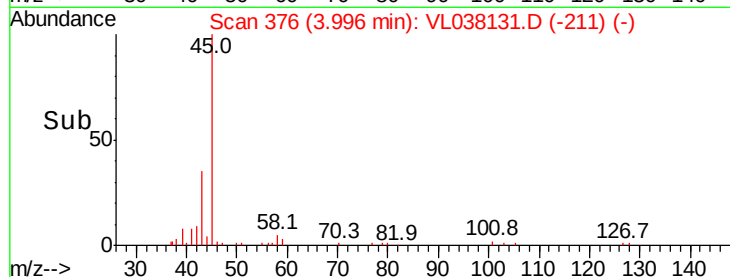
10000

0

Time-->

3.95

4.00



#20

Methylene Chloride

Concen: 1.571 ppbv

RT: 4.36 min Scan# 489

Delta R.T. 0.02 min

Lab File: VL038131.D

Acq: 29 Nov 2021 12:25

Tgt Ion: 84 Resp: 74721

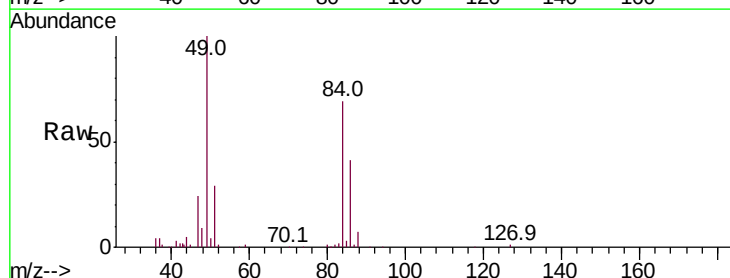
Ion Ratio Lower Upper

84 100

49 144.1 118.2 177.2

51 41.8 36.8 55.2

86 59.3 49.0 73.6



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

80000

60000

40000

20000

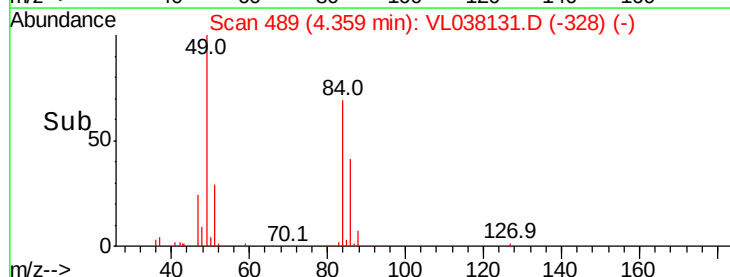
0

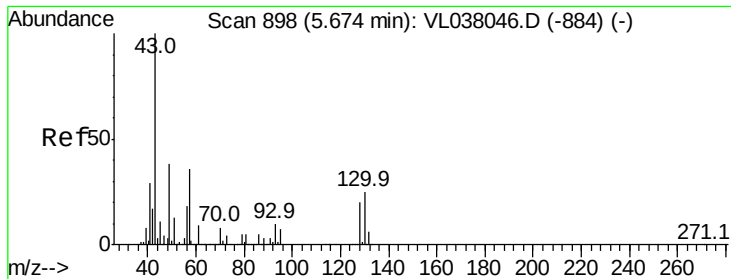
Time-->

4.30

4.35

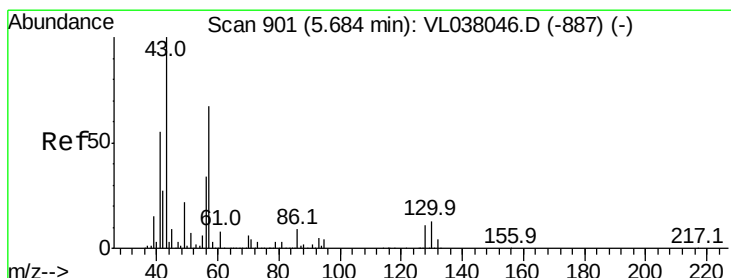
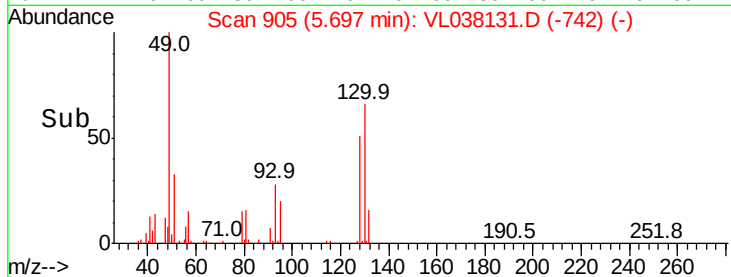
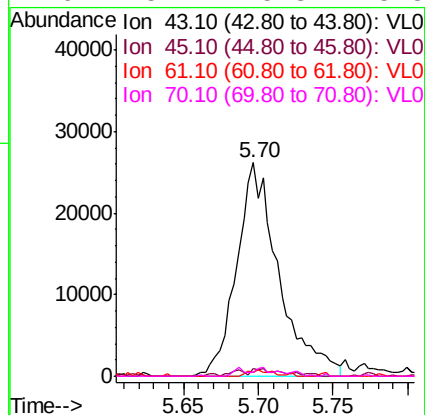
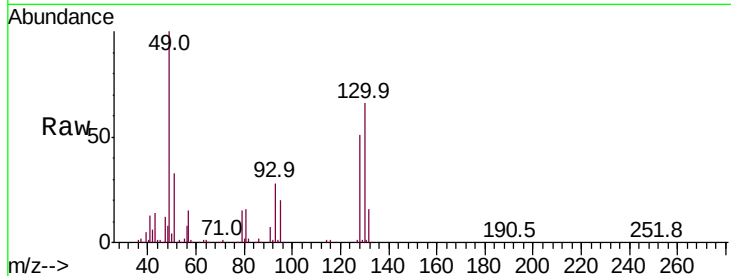
4.40





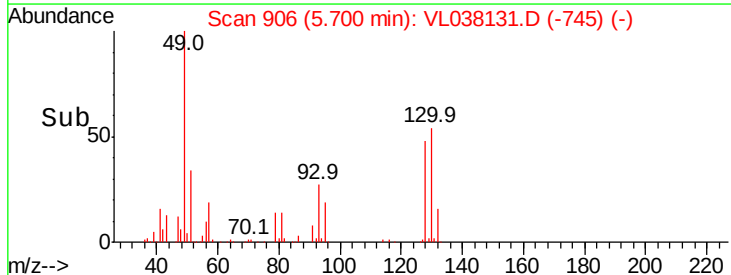
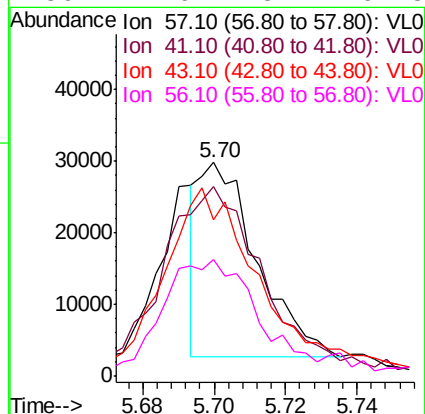
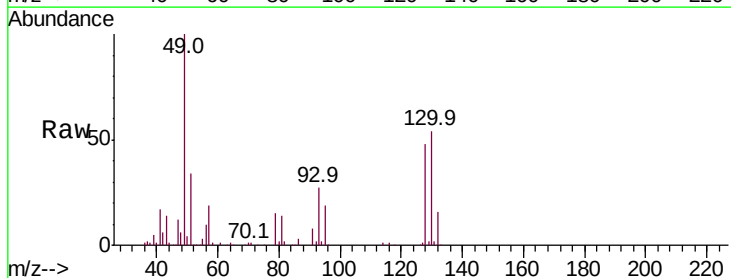
#25
Ethyl Acetate
Concen: 0.182 ppbv
RT: 5.70 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 29 Nov 2021 12:25 SG-CURVY-BRIDEL

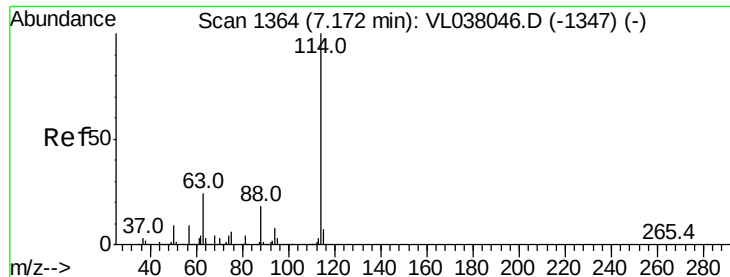
Tot Ion:	43	Resp:	51456
Ion	Ratio	Lower	Upper
43	100		
45	4.0	7.9	11.9#
61	2.0	7.8	11.6#
70	3.4	5.8	8.8#



#26
Hexane
Concen: 0.222 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.02 min
Lab File: VL038131.D
Acq: 29 Nov 2021 12:25

Tgt Ion:	57	Resp:	30249
Ion	Ratio	Lower	Upper
57	100		
41	185.8	71.4	107.2#
43	179.7	174.6	261.8
56	114.6	43.2	64.8#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 29 Nov 2021 12:25 SG-CURVY-BRIDEDL

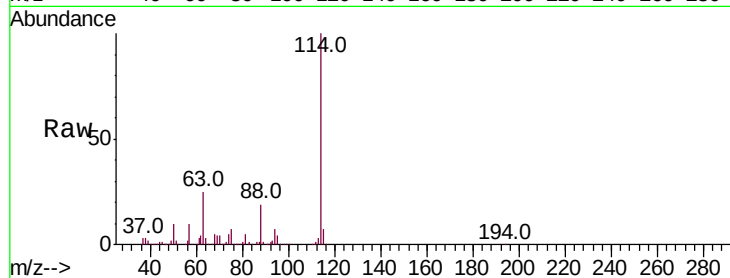
Tot Ion:114 Resp: 2773782

Ion Ratio Lower Upper

114 100

63 26.2 19.7 29.5

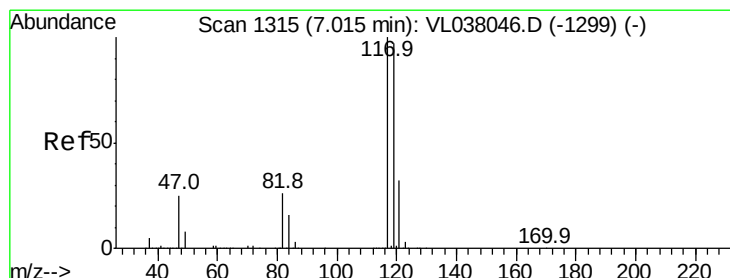
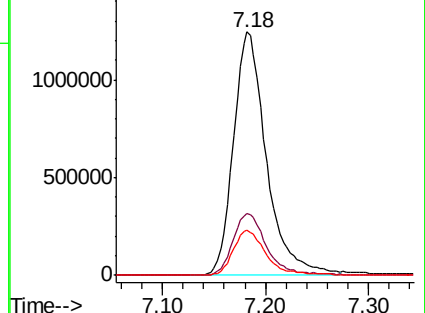
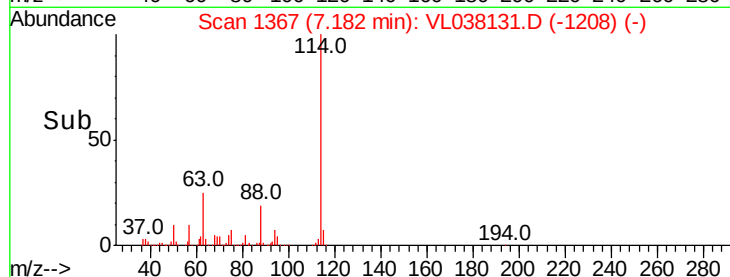
88 18.9 14.4 21.6



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#35

Carbon Tetrachloride

Concen: 0.035 ppbv

RT: 7.02 min Scan# 1318

Delta R.T. 0.01 min

Lab File: VL038131.D

Acq: 29 Nov 2021 12:25

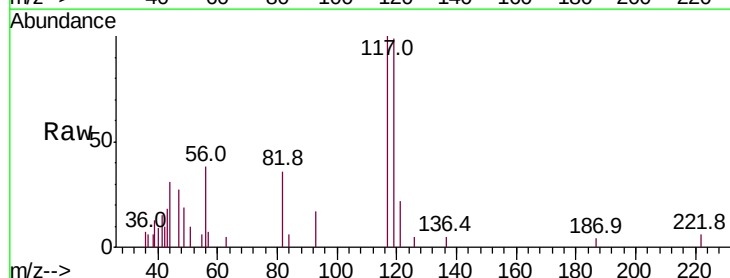
Tgt Ion:117 Resp: 6848

Ion Ratio Lower Upper

117 100

119 98.6 77.7 116.5

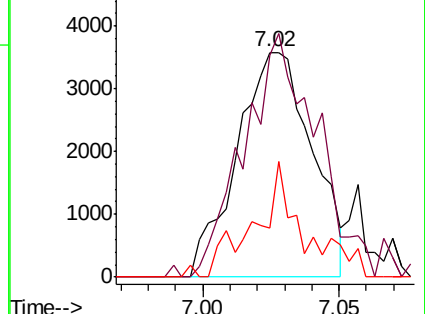
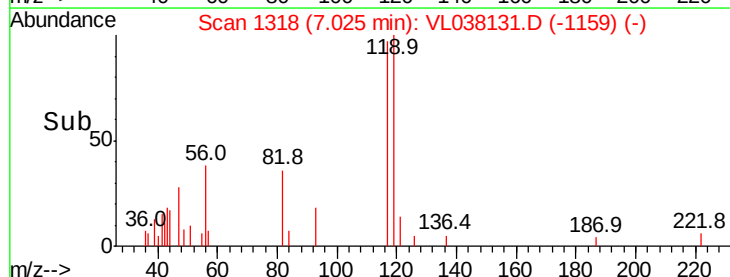
121 16.1 25.6 38.4#

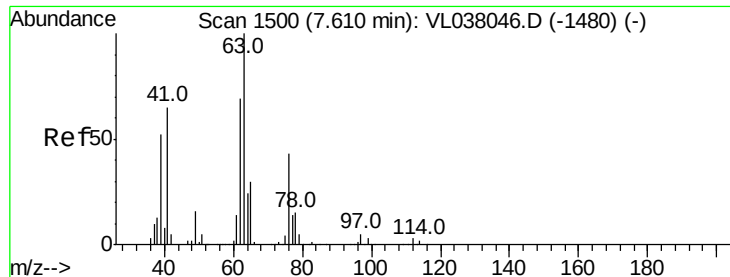


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#39

1,2-Dichloropropane

Concen: 6.640 ppbv

RT: 7.18 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 29 Nov 2021 12:25 SG-CURVY-BRIDEL

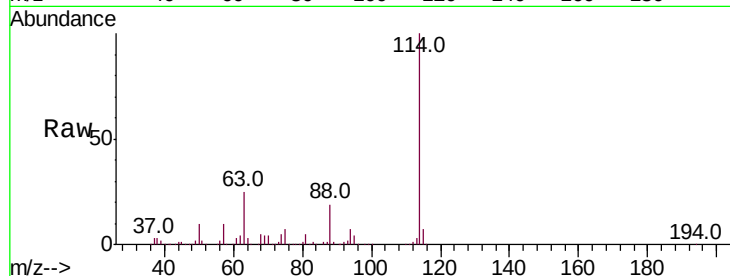
Tot Ion: 63 Resp: 704783

Ion Ratio Lower Upper

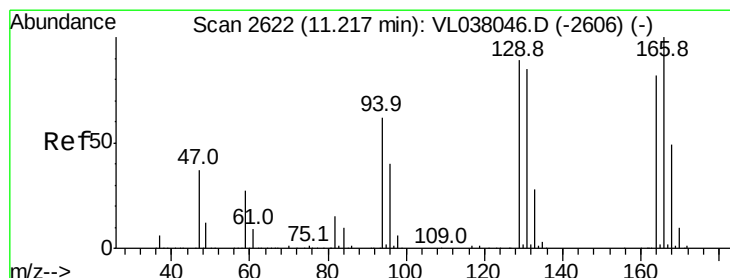
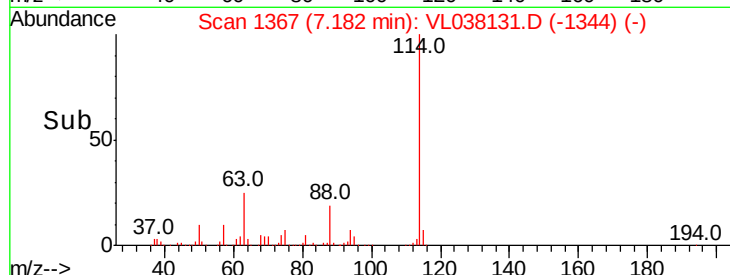
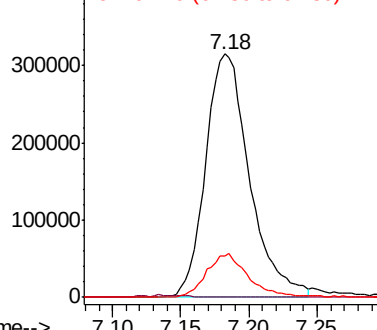
63 100

41 0.1 52.3 78.5#

62 17.1 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



#52

Tetrachloroethene

Concen: 15.906 ppbv

RT: 11.23 min Scan# 2626

Delta R.T. 0.01 min

Lab File: VL038131.D

Acq: 29 Nov 2021 12:25

Tgt Ion:164 Resp: 1628398

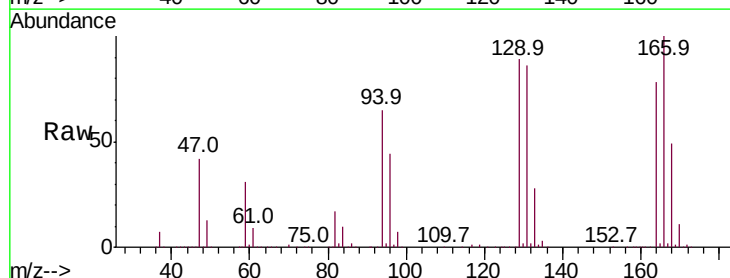
Ion Ratio Lower Upper

164 100

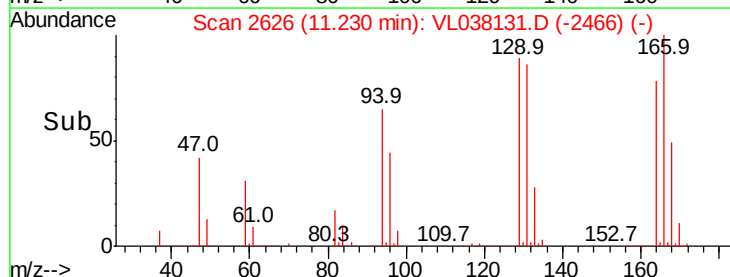
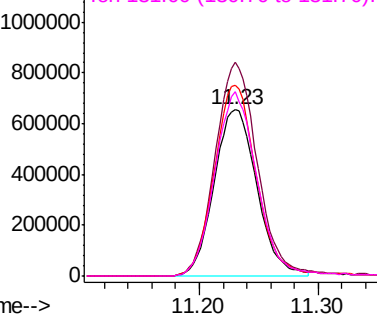
166 128.4 97.2 145.8

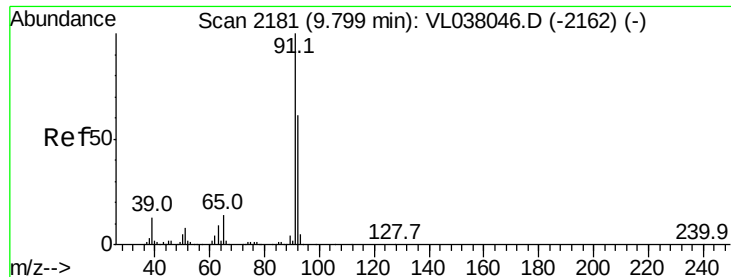
129 114.6 86.9 130.3

131 110.8 82.8 124.2



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.031 ppbv

RT: 9.81 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SG-CURVY-BRIDEDL

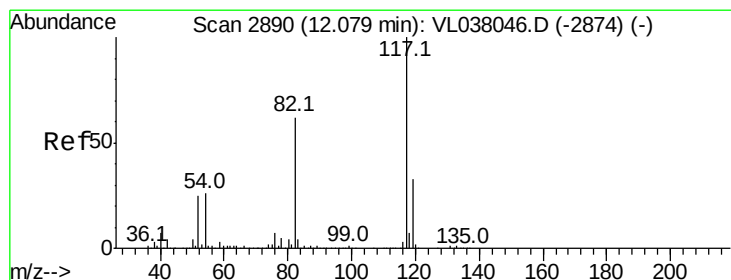
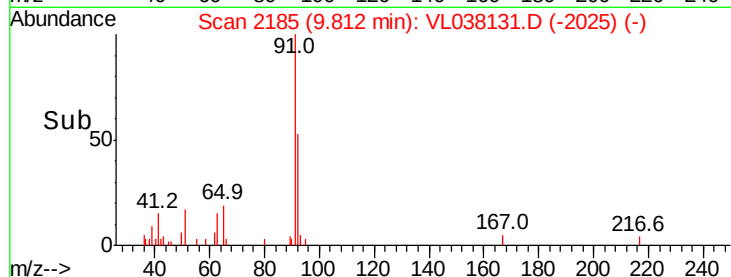
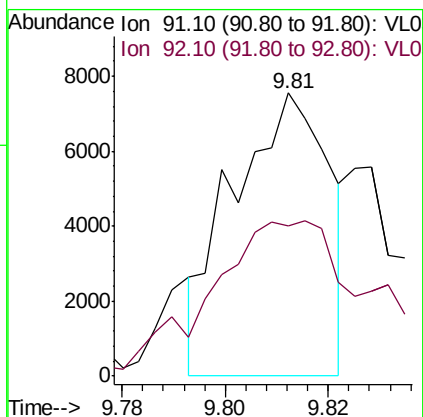
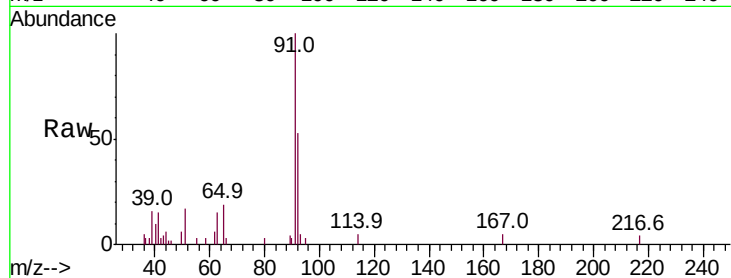
Acq: 29 Nov 2021 12:25

Tot Ion: 91 Resp: 9764

Ion Ratio Lower Upper

91 100

92 100.5 49.7 74.5#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2894

Delta R.T. 0.01 min

Lab File: VL038131.D

Acq: 29 Nov 2021 12:25

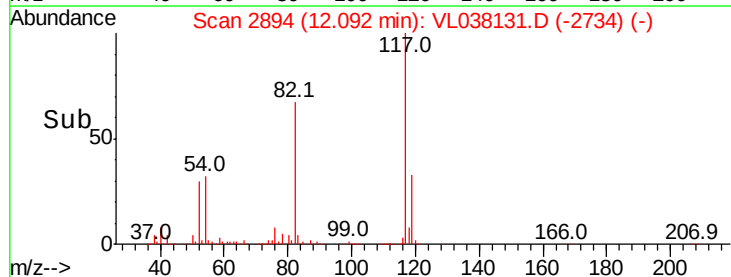
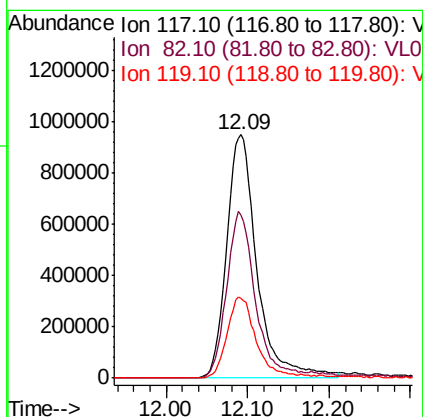
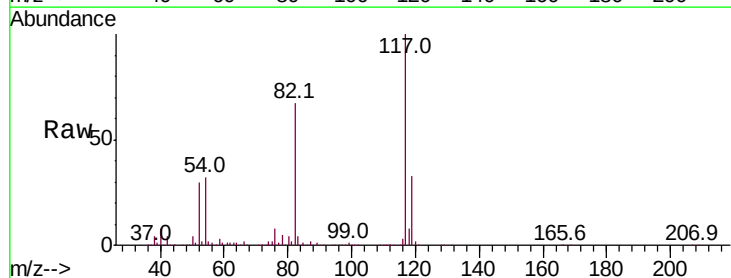
Tgt Ion: 117 Resp: 2486314

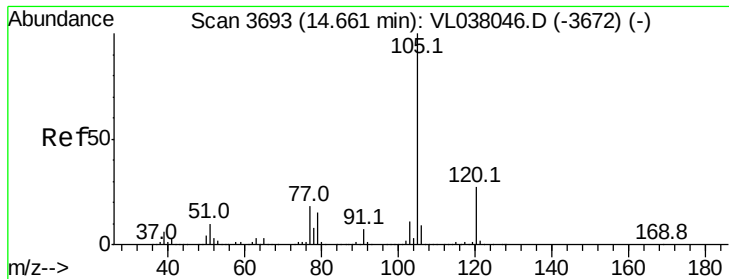
Ion Ratio Lower Upper

117 100

82 70.0 52.8 79.2

119 34.0 26.8 40.2





#62

Isopropylbenzene

Concen: 0.045 ppbv

RT: 14.67

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

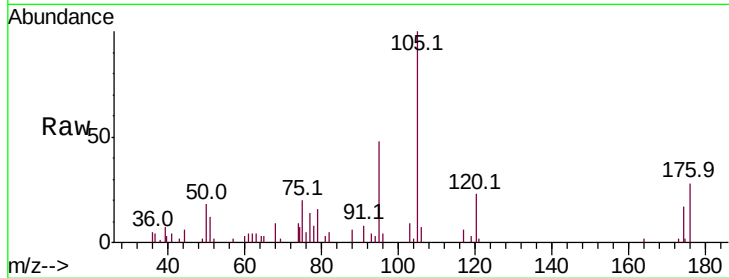
Acq: 29 Nov 2021 12:25

Tot Ion: 105 Resp: 20449

Ion Ratio Lower Upper

105 100

120 30.8 21.8 32.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

14.67

12000

10000

8000

6000

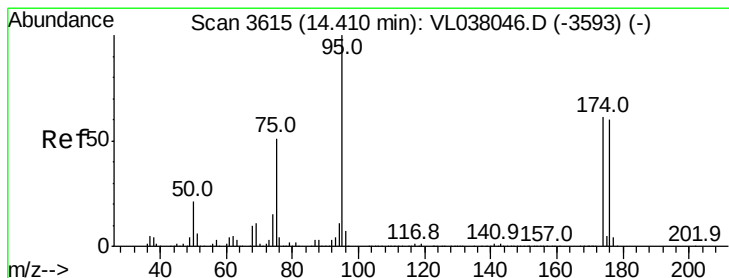
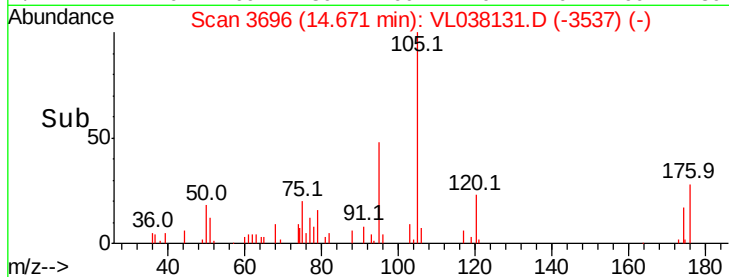
4000

2000

0

14.65 14.70

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 10.509 ppbv

RT: 14.42 min Scan# 3618

Delta R.T. 0.01 min

Lab File: VL038131.D

Acq: 29 Nov 2021 12:25

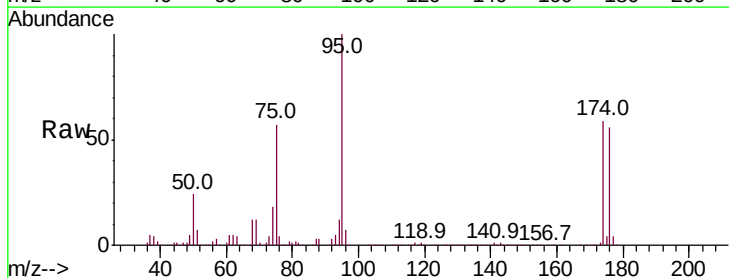
Tgt Ion: 95 Resp: 1884714

Ion Ratio Lower Upper

95 100

174 62.8 53.1 79.7

175 4.8 4.0 6.0



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

14.42

800000

600000

400000

200000

0

14.30 14.40 14.50

Time-->

