

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112321\
 Data File : VL038115.D
 Acq On : 24 Nov 2021 1:05
 Operator : SY/AP
 Sample : M4805-04 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-CURATED-HOMEDL

Quant Time: Nov 26 04:17:38 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	5.66	49	823240	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2355266	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.07	117	2087069	10.00	ppbv	-0.01

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.39	95	1687684	11.21	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	112.10%	

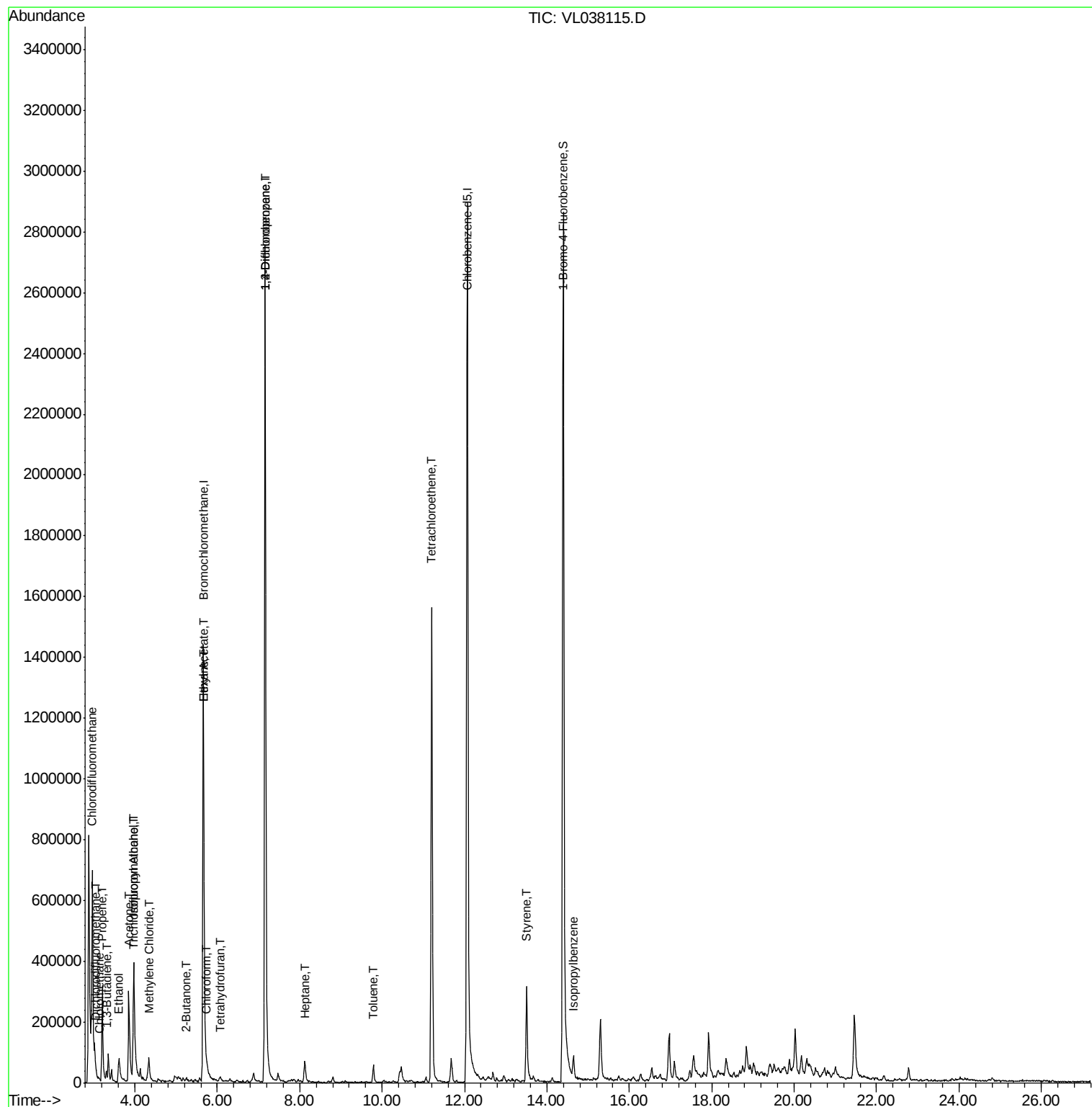
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	7650	0.056	ppbv	90
3) Chlorodifluoromethane	2.97	51	551478	3.190	ppbv #	60
4) Chloromethane	3.14	50	3035	0.052	ppbv #	74
9) Propene	3.20	41	95629	1.502	ppbv	85
10) Heptane	8.11	43	7523	0.048	ppbv #	44
11) Trichlorofluoromethane	3.95	101	22760	0.176	ppbv	93
13) Ethanol	3.60	45	47965	7.795	ppbv #	32
15) Acetone	3.85	43	402542	5.640	ppbv	100
16) 1,3-Butadiene	3.32	39	1691	0.030	ppbv #	9
19) Isopropyl Alcohol	3.97	45	571895	11.089	ppbv #	97
20) Methylene Chloride	4.34	84	24600	0.615	ppbv	95
25) Ethyl Acetate	5.68	43	31723	0.134	ppbv #	97
26) Hexane	5.68	57	23992	0.210	ppbv #	75
29) Chloroform	5.74	83	7096	0.042	ppbv #	76
34) 2-Butanone	5.25	43	18066	0.190	ppbv #	81
39) 1,2-Dichloropropane	7.16	63	606893	6.734	ppbv #	26
41) Tetrahydrofuran	6.06	42	3220	0.055	ppbv #	36
52) Tetrachloroethene	11.21	164	393085	4.522	ppbv	97
53) Toluene	9.78	91	27437	0.101	ppbv #	19
61) Styrene	13.51	104	196172	1.358	ppbv	92
62) Isopropylbenzene	14.65	105	29448	0.077	ppbv #	53

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SG-CURATED-HOMEDL

Acq: 24 Nov 2021 1:05

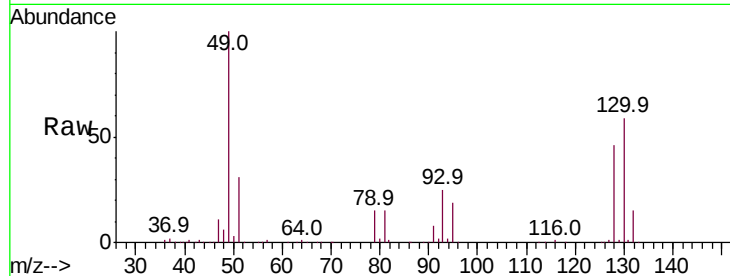
Tot Ion: 49 Resp: 823240

Ion Ratio Lower Upper

49 100

128 50.1 26.5 79.5

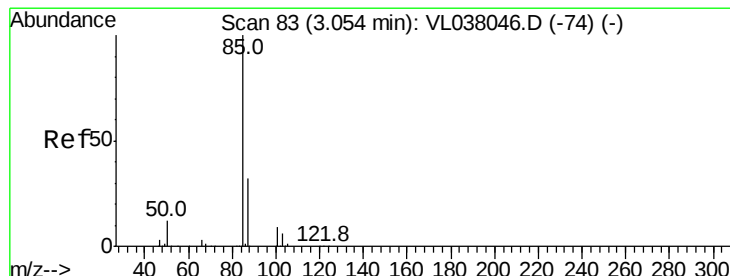
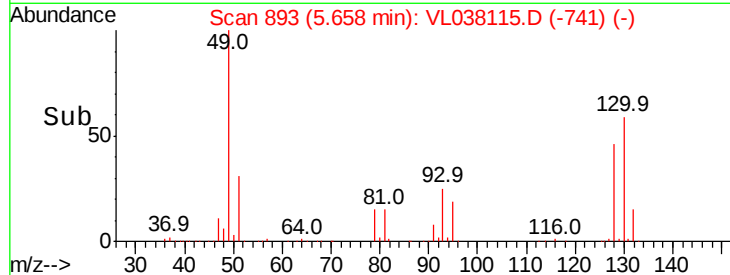
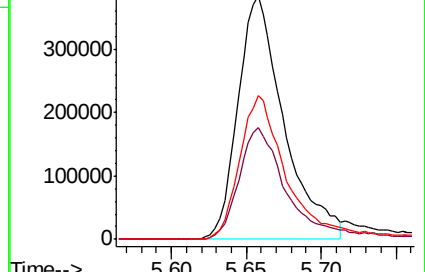
130 63.8 32.5 97.4



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: 0.056 ppbv

RT: 3.05 min Scan# 83

Delta R.T. -0.00 min

Lab File: VL038115.D

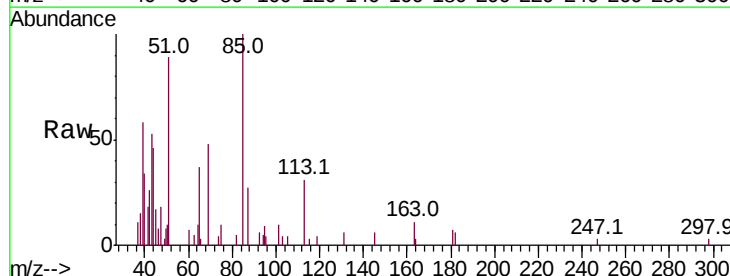
Acq: 24 Nov 2021 1:05

Tgt Ion: 85 Resp: 7650

Ion Ratio Lower Upper

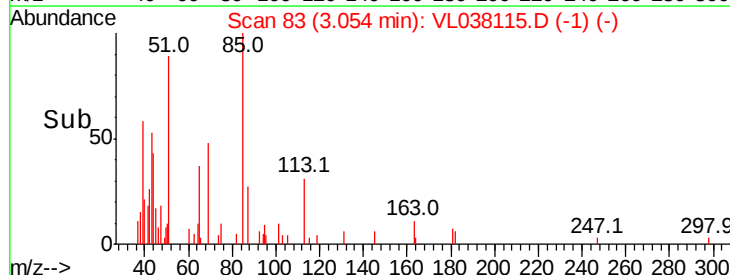
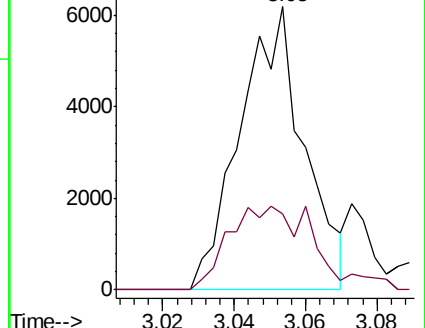
85 100

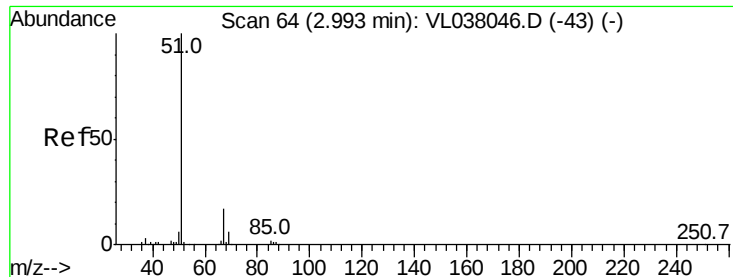
87 26.7 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 3.190 ppbv

RT: 2.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

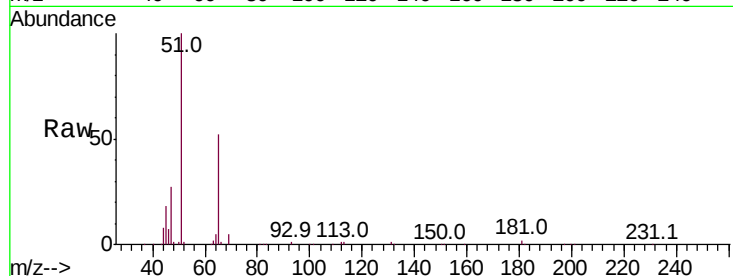
Acq: 24 Nov 2021 1:05 SG-CURATED-HOMEDL

Tot Ion: 51 Resp: 551478

Ion Ratio Lower Upper

51 100

67 0.0 13.8 20.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.97

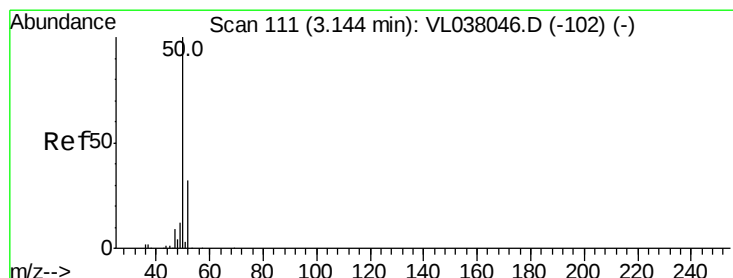
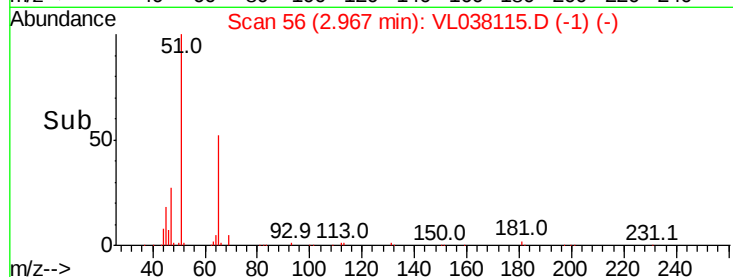
300000

200000

100000

0

Time-->



#4

Chloromethane

Concen: 0.052 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL038115.D

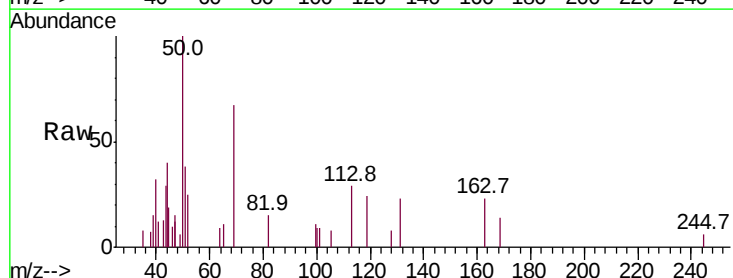
Acq: 24 Nov 2021 1:05

Tgt Ion: 50 Resp: 3035

Ion Ratio Lower Upper

50 100

52 17.0 25.4 38.0#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.14

3000

2500

2000

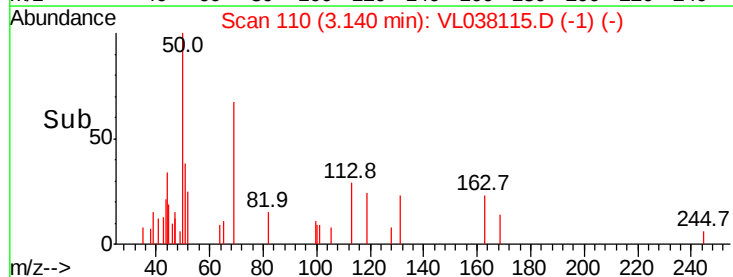
1500

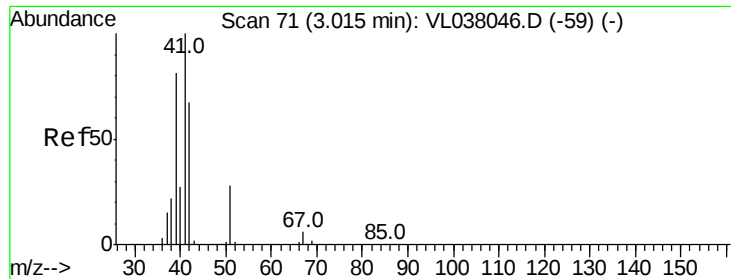
1000

500

0

Time-->





#9

Propene

Concen: 1.502 ppbv

RT: 3.20 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

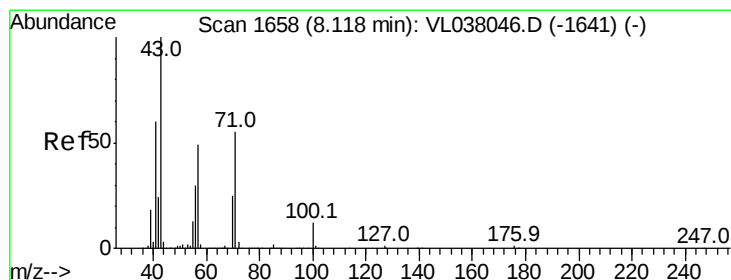
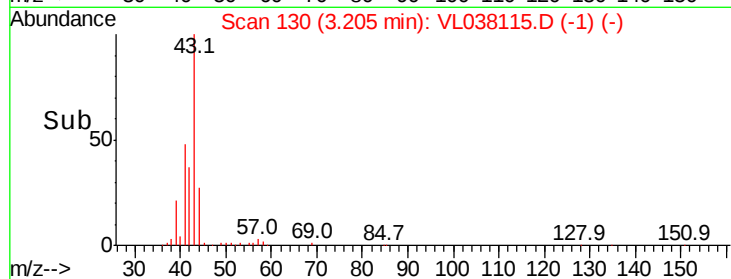
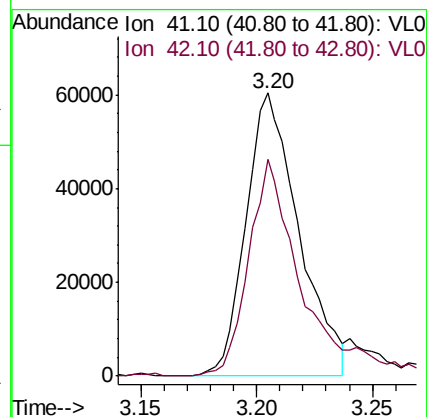
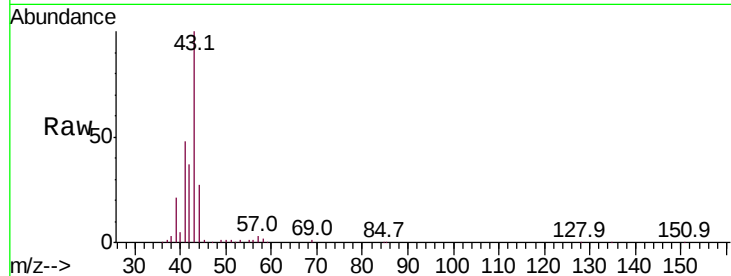
Acq: 24 Nov 2021 1:05 SG-CURATED-HOMEDL

Tot Ion: 41 Resp: 95629

Ion Ratio Lower Upper

41 100

42 79.7 53.8 80.8



#10

Heptane

Concen: 0.048 ppbv

RT: 8.11 min Scan# 1655

Delta R.T. -0.01 min

Lab File: VL038115.D

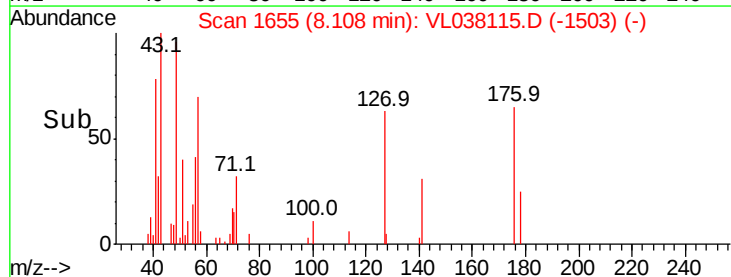
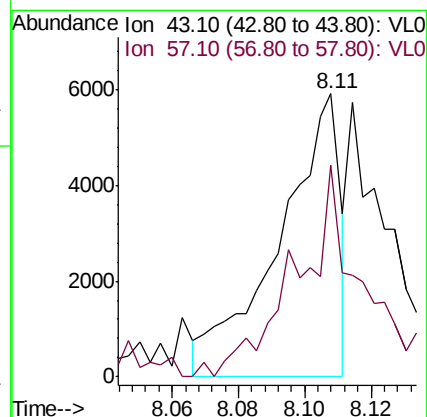
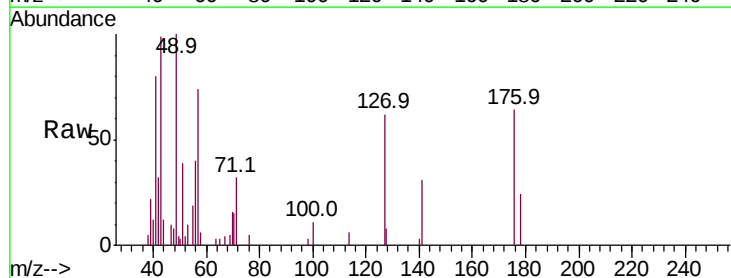
Acq: 24 Nov 2021 1:05

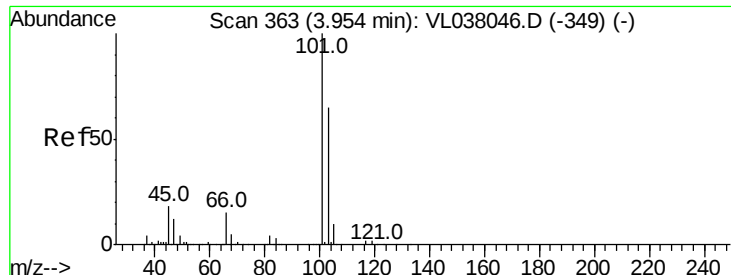
Tgt Ion: 43 Resp: 7523

Ion Ratio Lower Upper

43 100

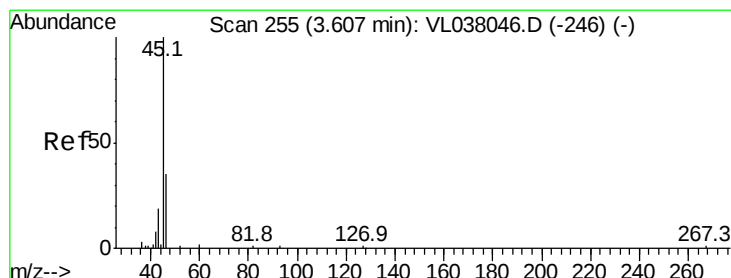
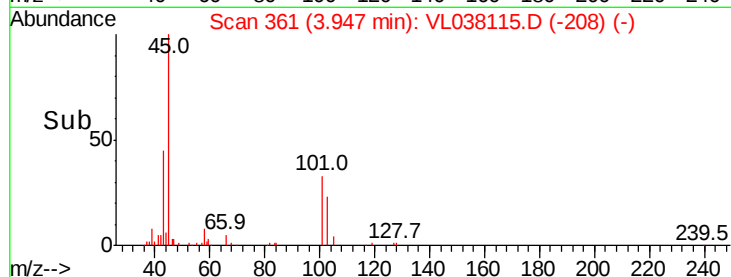
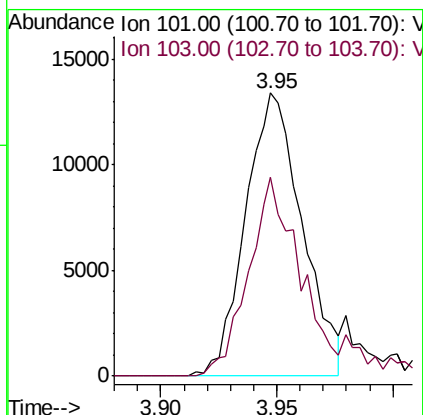
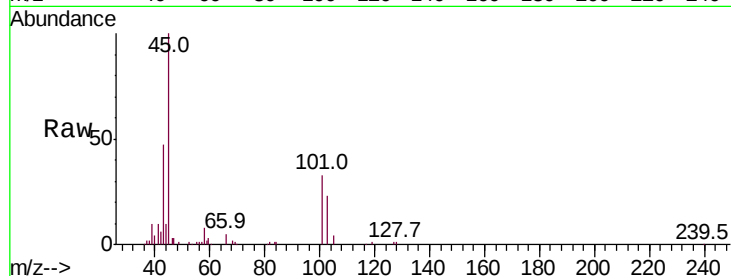
57 89.6 40.4 60.6#





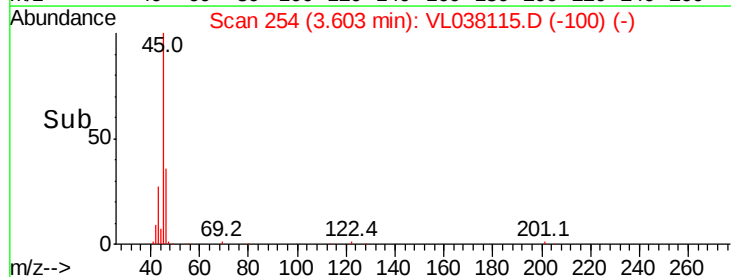
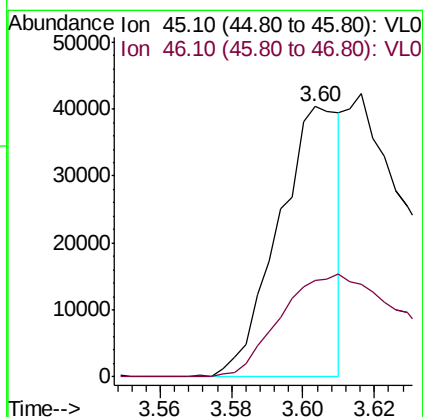
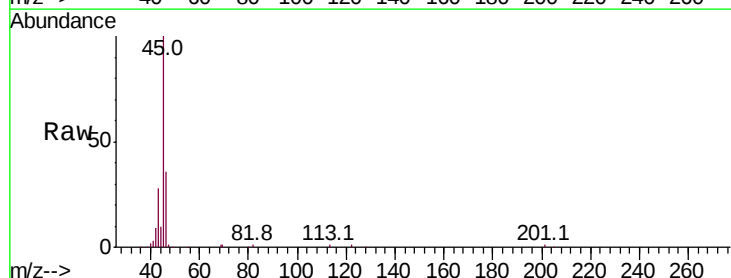
#11
 Trichlorofluoromethane
 Concen: 0.176 ppbv
 RT: 3.95
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 24 Nov 2021 1:05

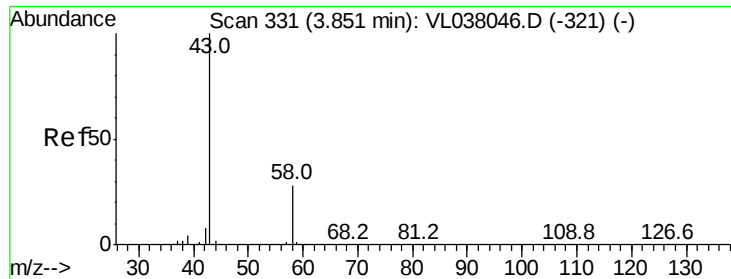
Tot Ion:101 Resp: 22760
 Ion Ratio Lower Upper
 101 100
 103 70.1 51.8 77.6



#13
 Ethanol
 Concen: 7.795 ppbv
 RT: 3.60 min Scan# 254
 Delta R.T. -0.00 min
 Lab File: VL038115.D
 Acq: 24 Nov 2021 1:05

Tgt Ion: 45 Resp: 47965
 Ion Ratio Lower Upper
 45 100
 46 0.0 17.6 70.2#





#15

Acetone

Concen: 5.640 ppbv

RT: 3.85 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

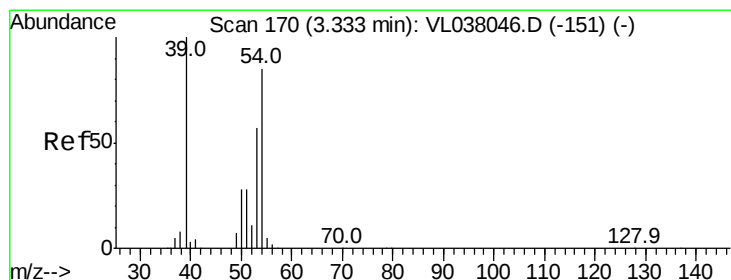
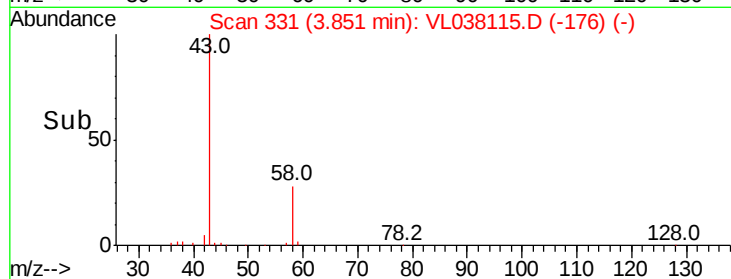
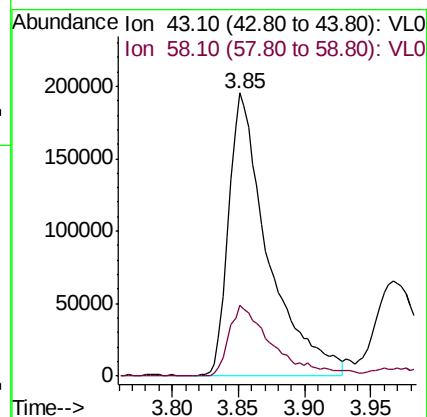
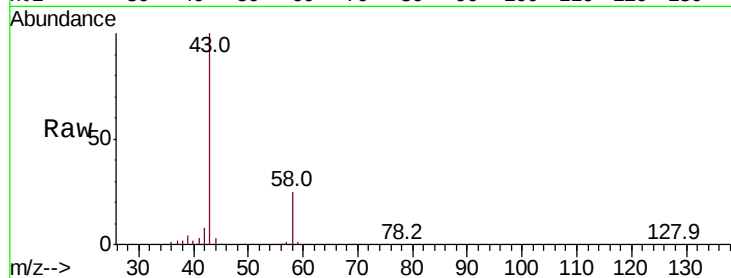
Acq: 24 Nov 2021 1:05 SG-CURATED-HOMEDL

Tot Ion: 43 Resp: 402542

Ion Ratio Lower Upper

43 100

58 28.0 22.4 33.6



#16

1,3-Butadiene

Concen: 0.030 ppbv

RT: 3.32 min Scan# 167

Delta R.T. -0.01 min

Lab File: VL038115.D

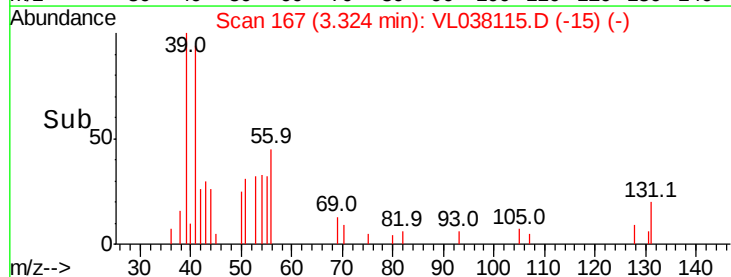
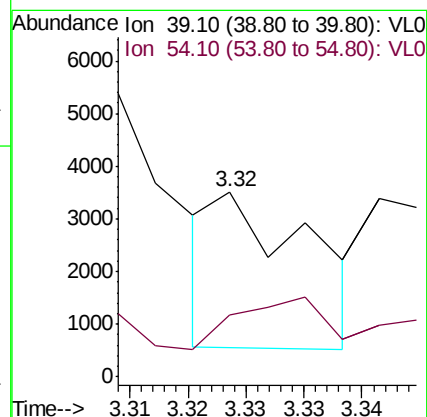
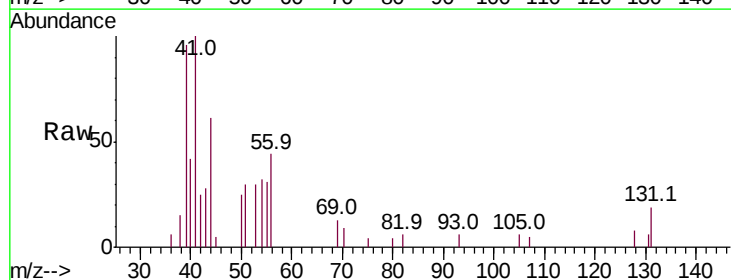
Acq: 24 Nov 2021 1:05

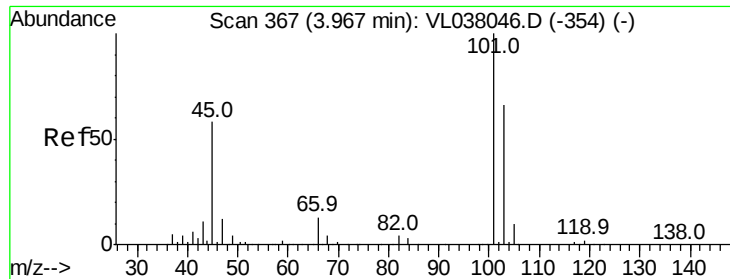
Tgt Ion: 39 Resp: 1691

Ion Ratio Lower Upper

39 100

54 0.0 64.4 96.6#





#19

Isopropyl Alcohol

Concen: 11.089 ppbv

RT: 3.97 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

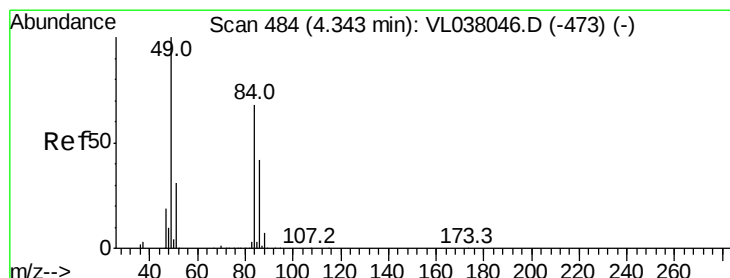
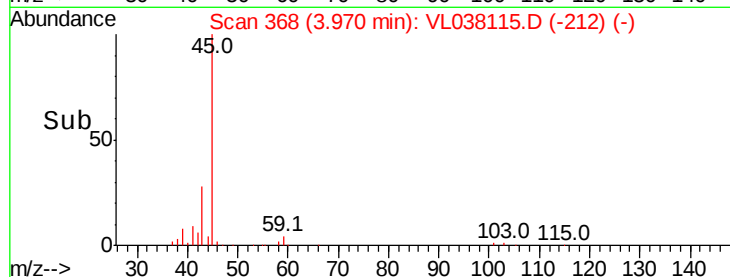
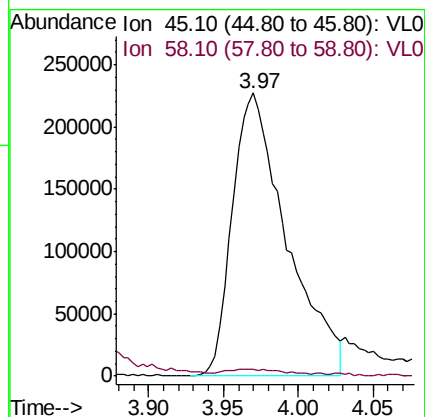
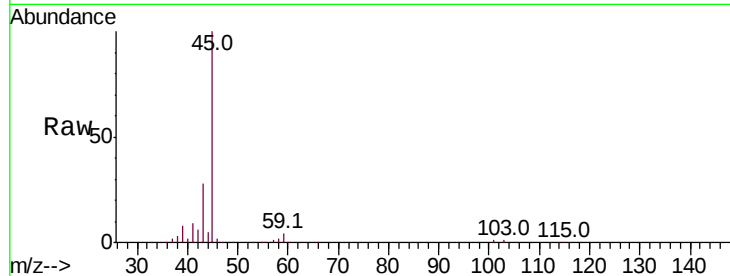
Acq: 24 Nov 2021 1:05 SG-CURATED-HOMEDL

Tot Ion: 45 Resp: 571895

Ion Ratio Lower Upper

45 100

58 2.7 1.4 2.0#



#20

Methylene Chloride

Concen: 0.615 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.00 min

Lab File: VL038115.D

Acq: 24 Nov 2021 1:05

Tgt Ion: 84 Resp: 24600

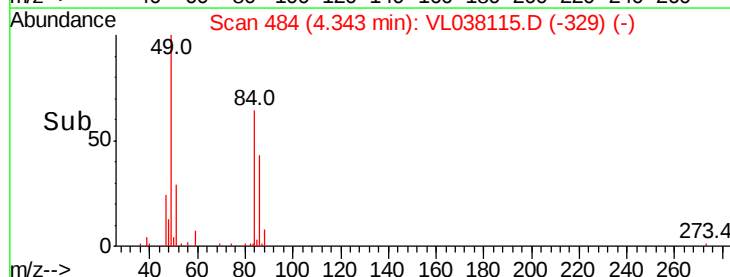
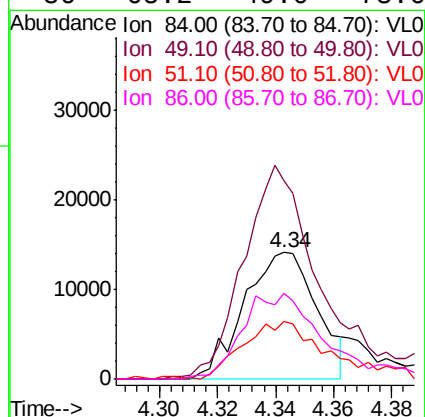
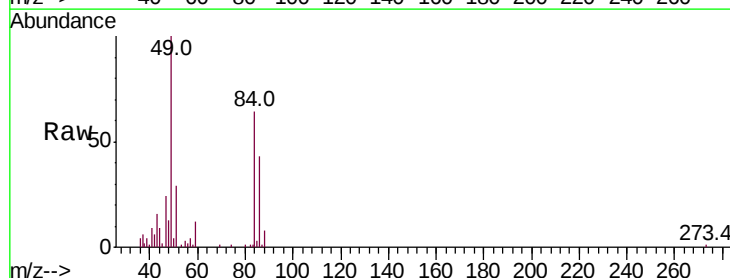
Ion Ratio Lower Upper

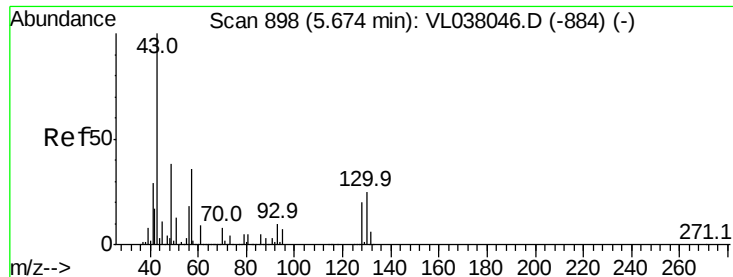
84 100

49 154.5 118.2 177.2

51 44.0 36.8 55.2

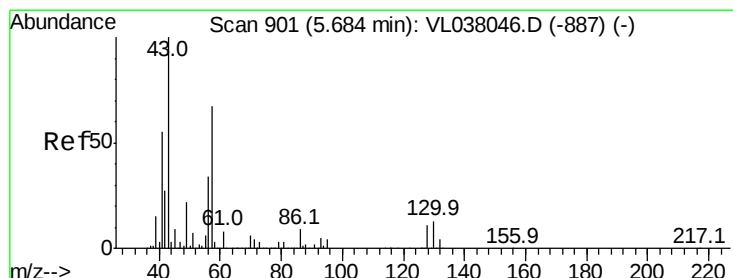
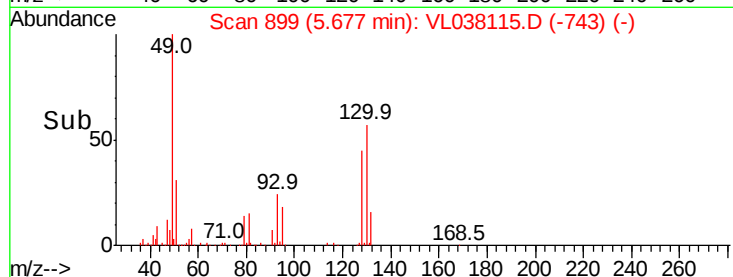
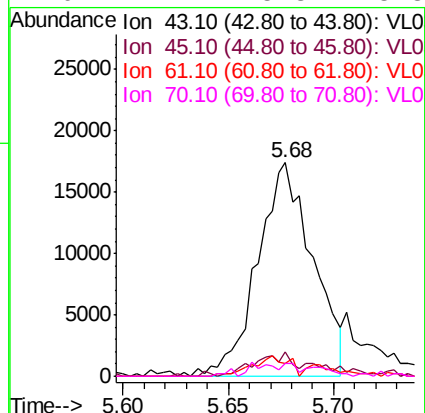
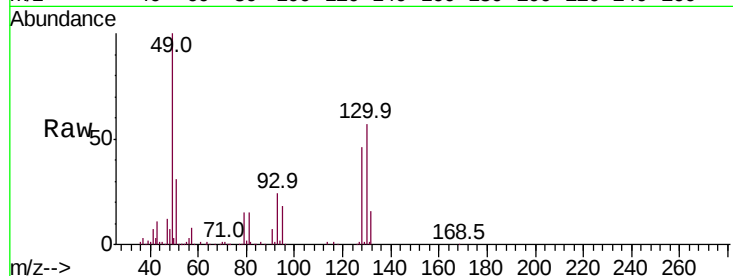
86 65.2 49.0 73.6





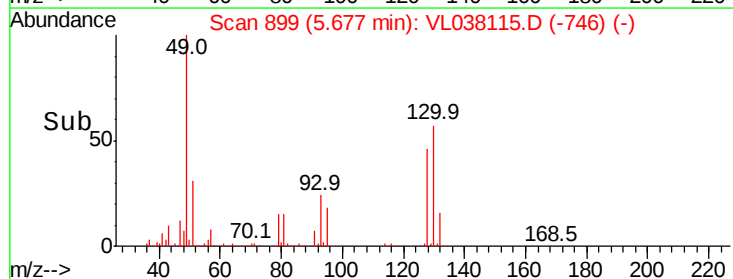
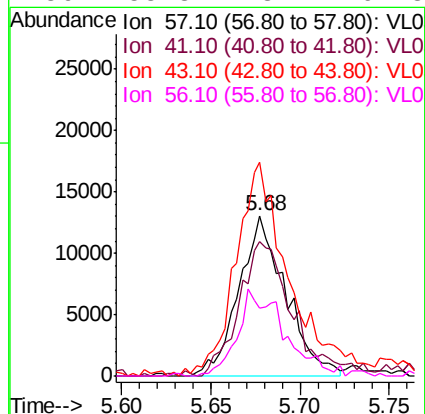
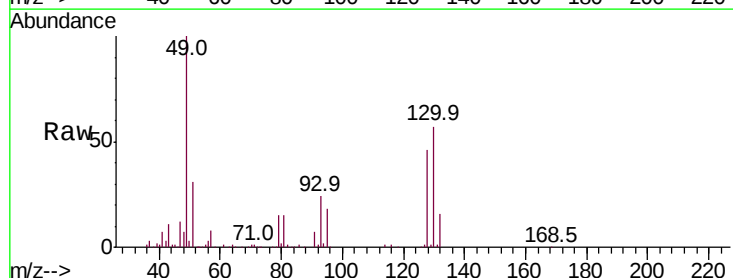
#25
Ethyl Acetate
Concen: 0.134 ppbv
RT: 5.68
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 24 Nov 2021 1:05
SG-CURATED-HOMEDL

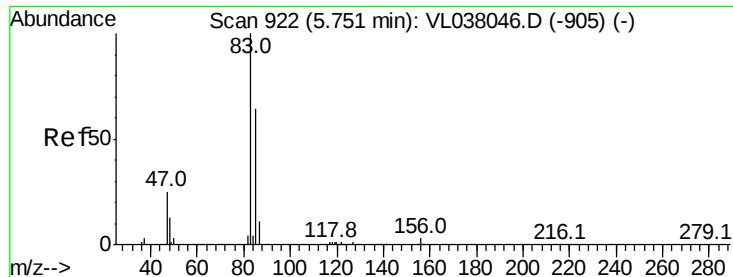
Tot Ion:	43	Resp:	31723
Ion	Ratio	Lower	Upper
43	100		
45	11.9	7.9	11.9#
61	9.9	7.8	11.6
70	7.7	5.8	8.8



#26
Hexane
Concen: 0.210 ppbv
RT: 5.68 min Scan# 899
Delta R.T.: -0.01 min
Lab File: VL038115.D
Acq: 24 Nov 2021 1:05

Tgt Ion:	57	Resp:	23992
Ion	Ratio	Lower	Upper
57	100		
41	103.2	71.4	107.2
43	161.6	174.6	261.8#
56	55.3	43.2	64.8





#29

Chloroform

Concen: 0.042 ppbv

RT: 5.74 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

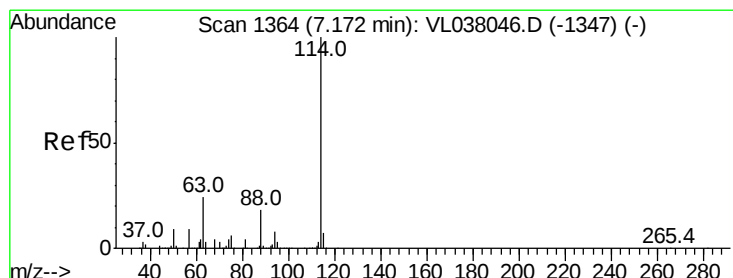
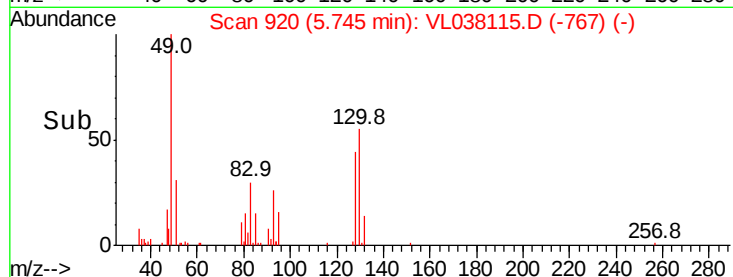
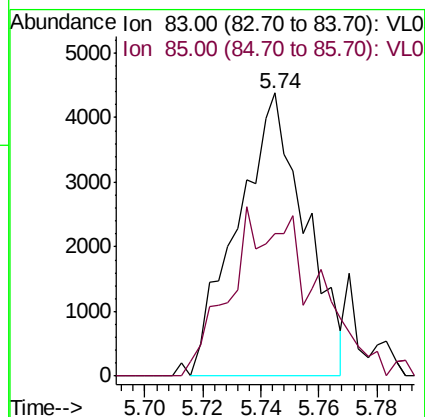
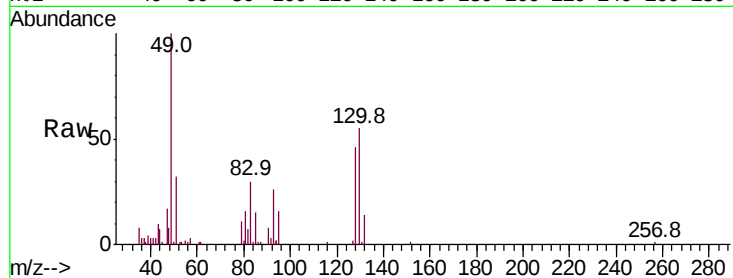
Acq: 24 Nov 2021 1:05 SG-CURATED-HOMEDL

Tot Ion: 83 Resp: 7096

Ion Ratio Lower Upper

83 100

85 45.2 51.0 76.6#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.01 min

Lab File: VL038115.D

Acq: 24 Nov 2021 1:05

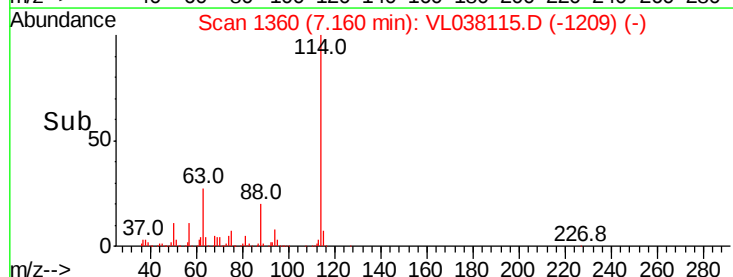
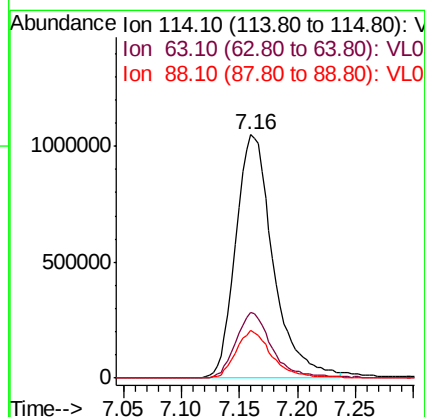
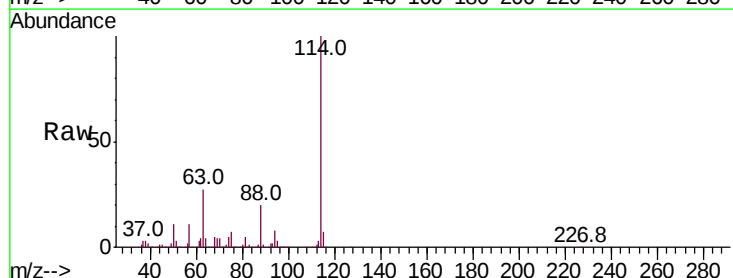
Tgt Ion: 114 Resp: 2355266

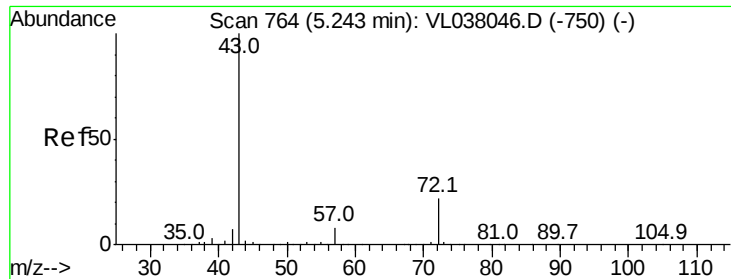
Ion Ratio Lower Upper

114 100

63 26.6 19.7 29.5

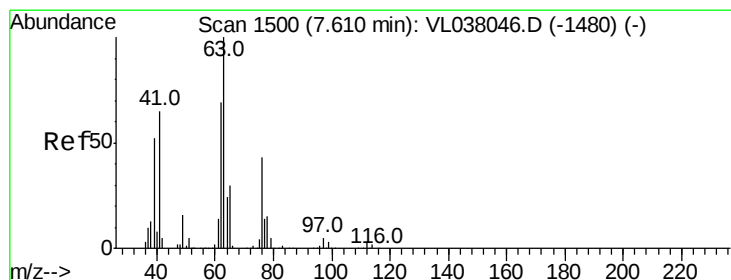
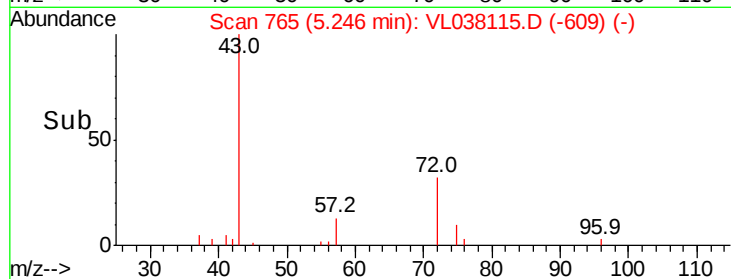
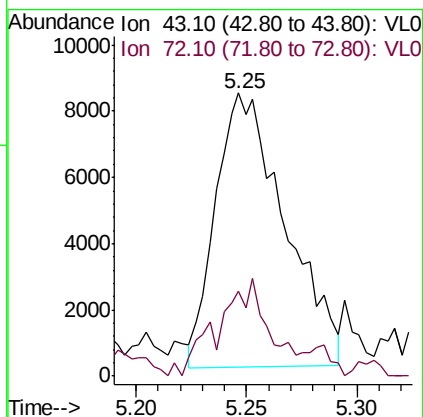
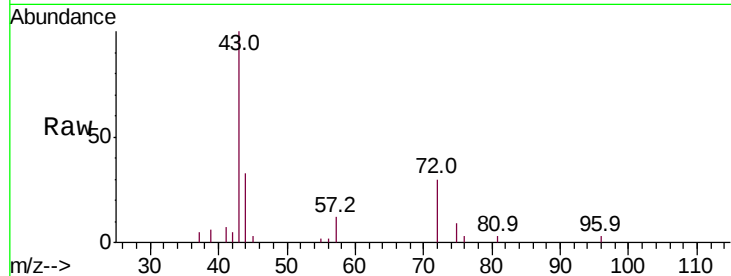
88 19.1 14.4 21.6





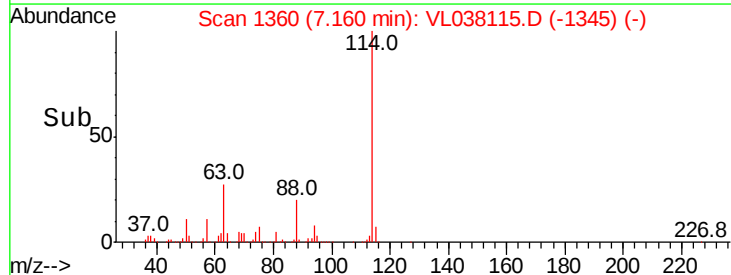
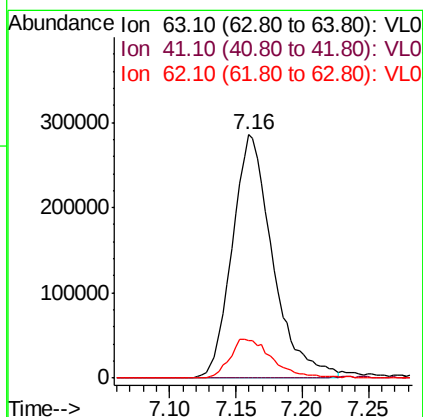
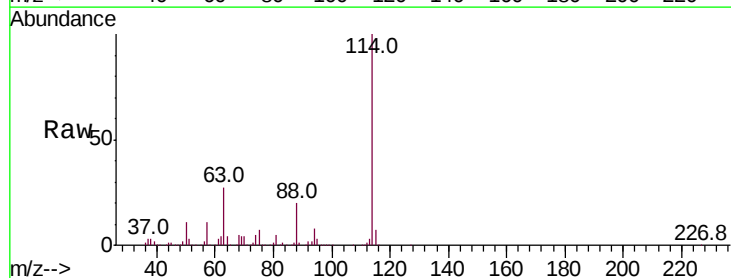
#34
 2-Butanone
 Concen: 0.190 ppbv
 RT: 5.25
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 Nov 2021 1:05

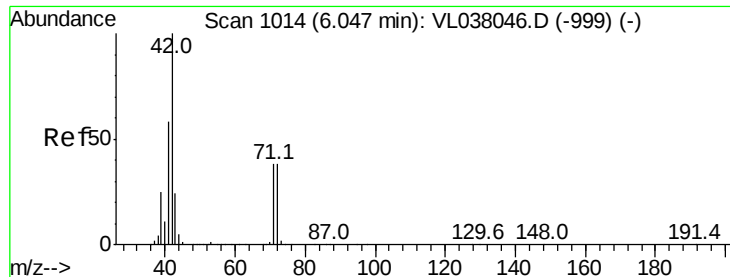
Tot Ion: 43 Resp: 18066
 Ion Ratio Lower Upper
 43 100
 72 32.6 18.8 28.2#



#39
 1,2-Dichloropropane
 Concen: 6.734 ppbv
 RT: 7.16 min Scan# 1360
 Delta R.T. -0.45 min
 Lab File: VL038115.D
 Acq: 24 Nov 2021 1:05

Tgt Ion: 63 Resp: 606893
 Ion Ratio Lower Upper
 63 100
 41 0.0 52.3 78.5#
 62 15.4 55.1 82.7#





#41

Tetrahydrofuran

Concen: 0.055 ppbv

RT: 6.06 Instrument: MSVOA_1

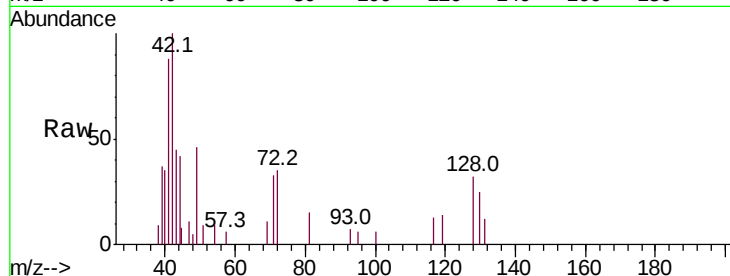
Delta R.T.

Lab File: ClientSampleId:

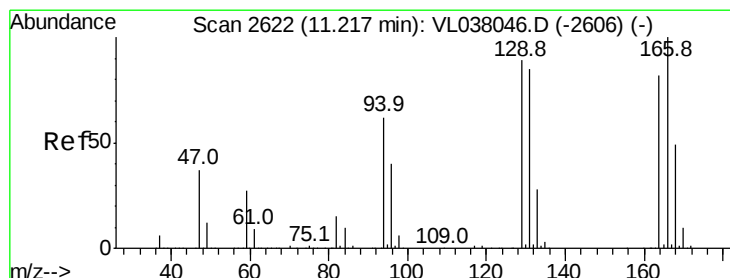
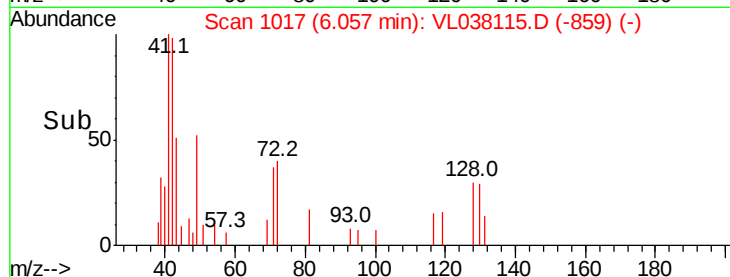
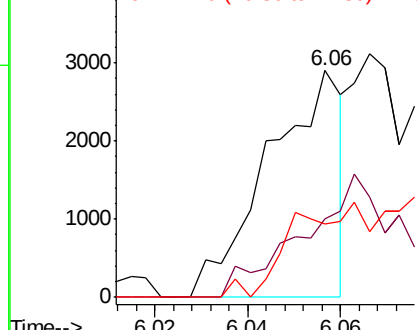
Acq: 24 Nov 2021 1:05

Tot Ion: 42 Resp: 3220

Ion	Ratio	Lower	Upper
42	100		
72	0.0	31.7	47.5#
71	0.0	30.6	46.0#



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#52

Tetrachloroethene

Concen: 4.522 ppbv

RT: 11.21 min Scan# 2619

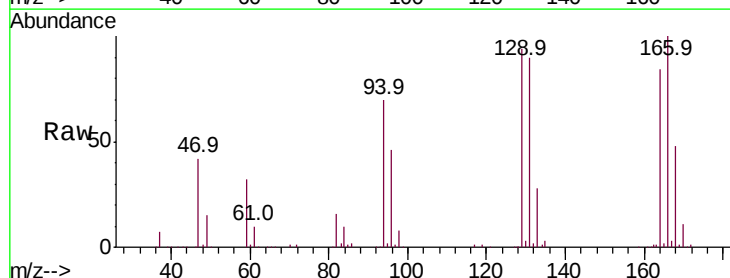
Delta R.T. -0.01 min

Lab File: VL038115.D

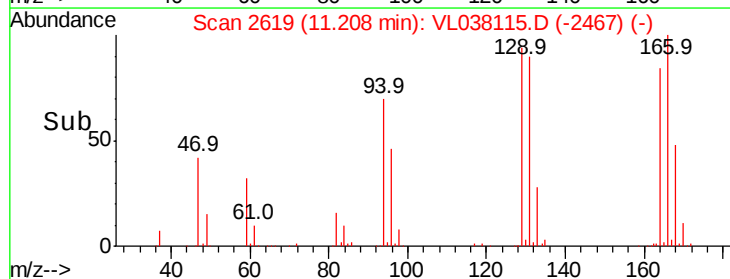
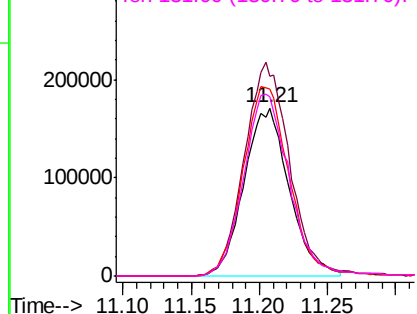
Acq: 24 Nov 2021 1:05

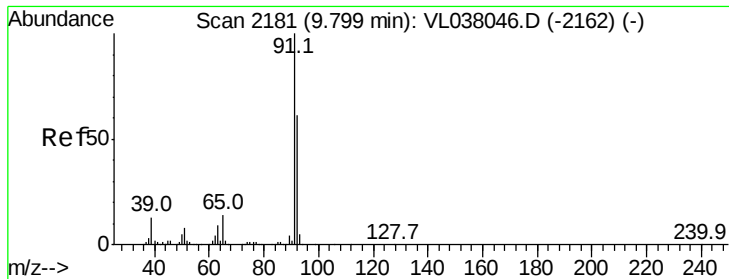
Tgt Ion: 164 Resp: 393085

Ion	Ratio	Lower	Upper
164	100		
166	118.8	97.2	145.8
129	111.4	86.9	130.3
131	106.6	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: 0.101 ppbv

RT: 9.78 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

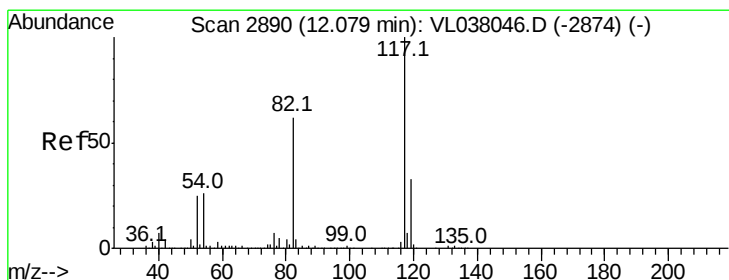
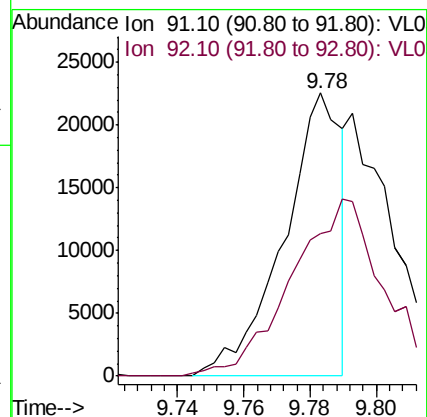
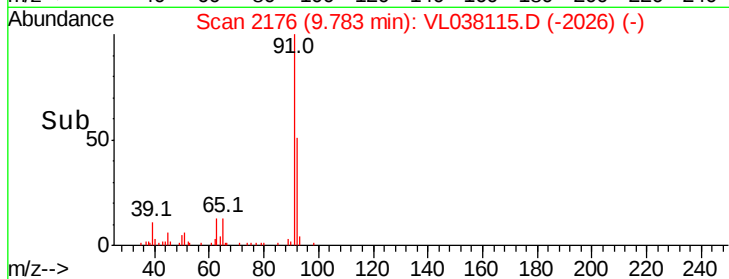
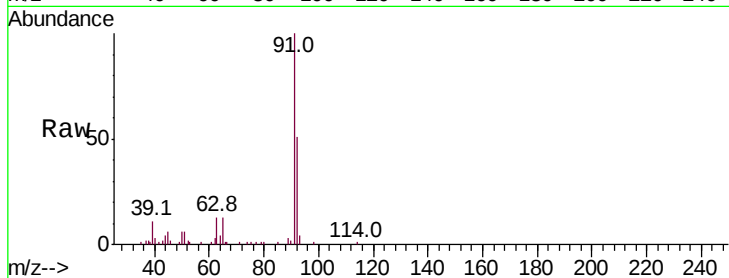
Acq: 24 Nov 2021 1:05 SG-CURATED-HOMEDL

Tot Ion: 91 Resp: 27437

Ion Ratio Lower Upper

91 100

92 0.0 49.7 74.5#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. -0.01 min

Lab File: VL038115.D

Acq: 24 Nov 2021 1:05

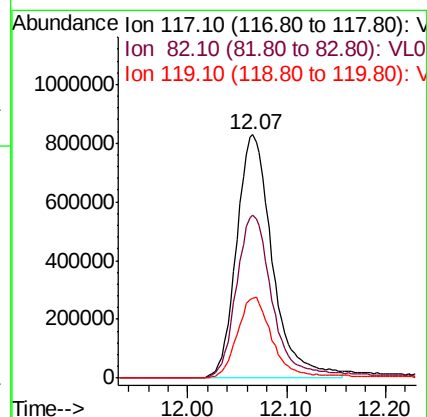
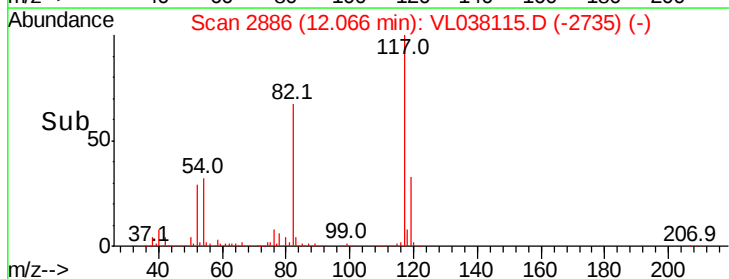
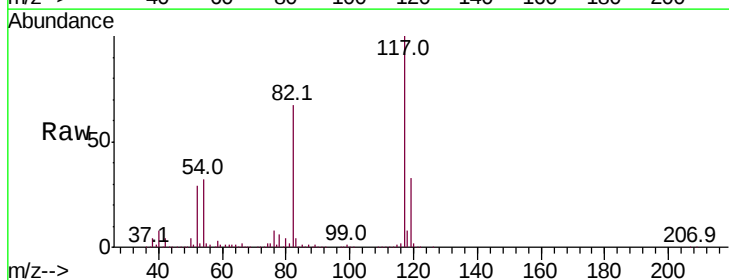
Tgt Ion: 117 Resp: 2087069

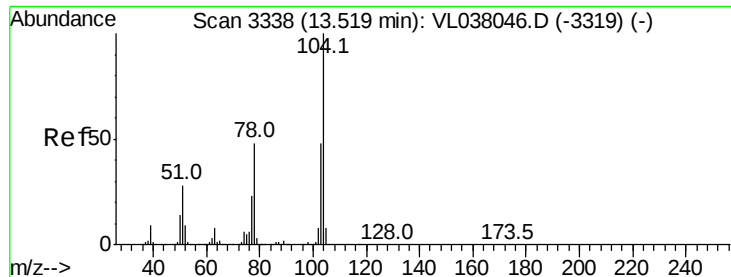
Ion Ratio Lower Upper

117 100

82 70.5 52.8 79.2

119 33.5 26.8 40.2





#61

Stvrene

Concen: 1.358 ppbv

RT: 13.51

Delta R.T. MSVOA_L

Lab File:

ClientSampleId: SG-CURATED-HOMEDL

Acq: 24 Nov 2021 1:05

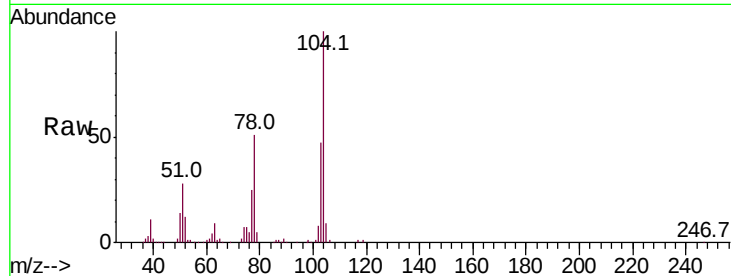
Tot Ion:104 Resp: 196172

Ion Ratio Lower Upper

104 100

78 58.0 39.8 59.6

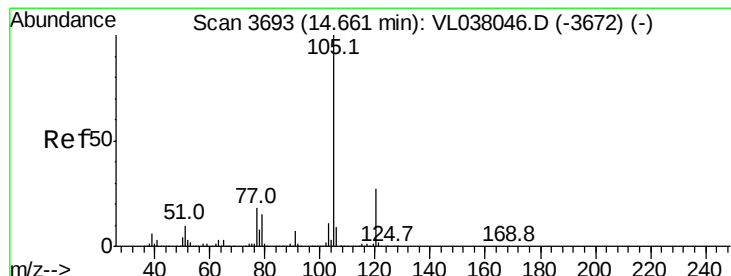
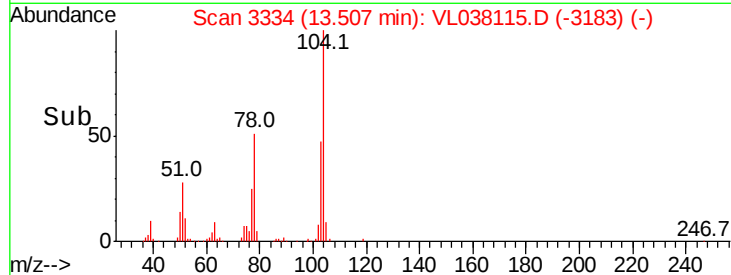
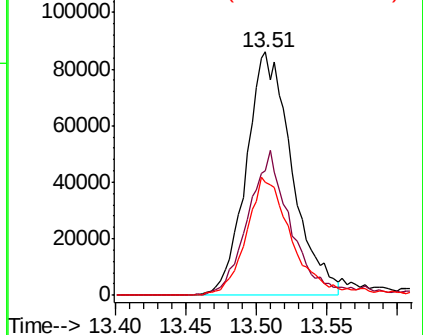
103 50.2 38.2 57.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.077 ppbv

RT: 14.65 min Scan# 3689

Delta R.T. -0.01 min

Lab File: VL038115.D

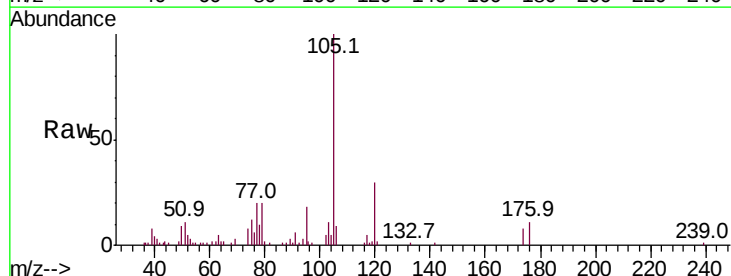
Acq: 24 Nov 2021 1:05

Tgt Ion:105 Resp: 29448

Ion Ratio Lower Upper

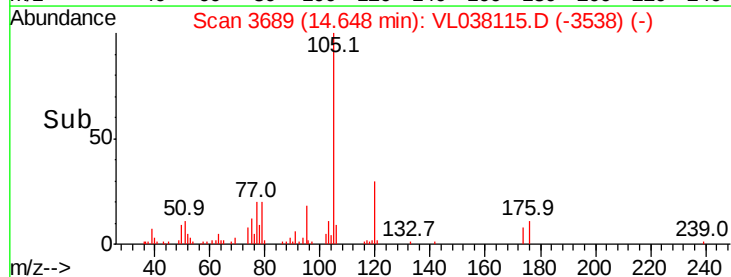
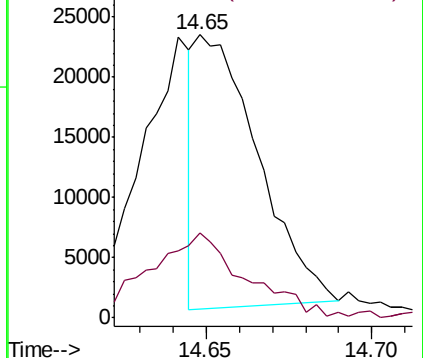
105 100

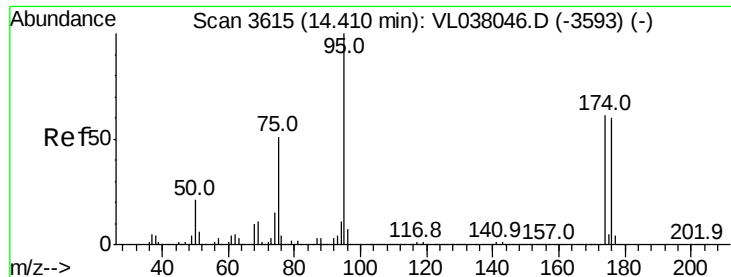
120 51.9 21.8 32.6#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#68

1-Bromo-4-Fluorobenzene

Concen: 11.211 ppbv

RT: 14.39 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Nov 2021 1:03 SG-CURATED-HOMEDL

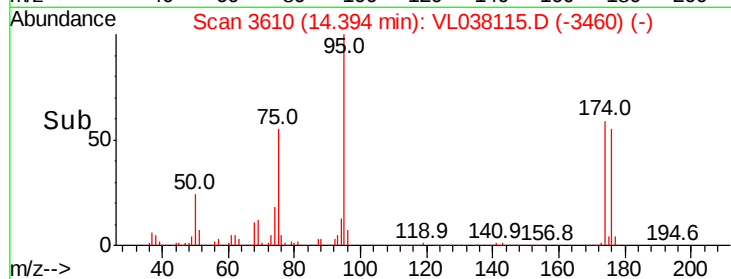
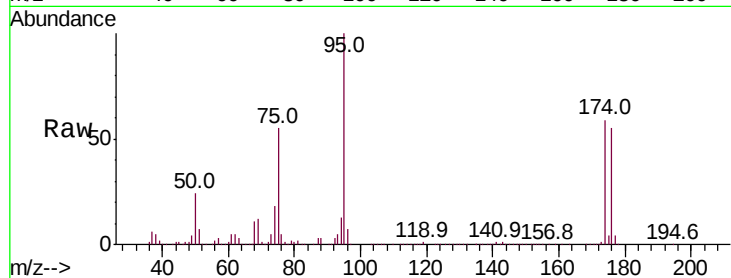
Tot Ion: 95 Resp: 1687684

Ion Ratio Lower Upper

95 100

174 60.2 53.1 79.7

175 4.4 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

