

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111821\
 Data File : VL038070.D
 Acq On : 19 Nov 2021 1:41
 Operator : SY/AP
 Sample : M4704-04DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 TRANS-SHOPDL

Quant Time: Nov 19 07:32:51 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	802552	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2298237	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	1963488	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	1452107	10.25	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.50%

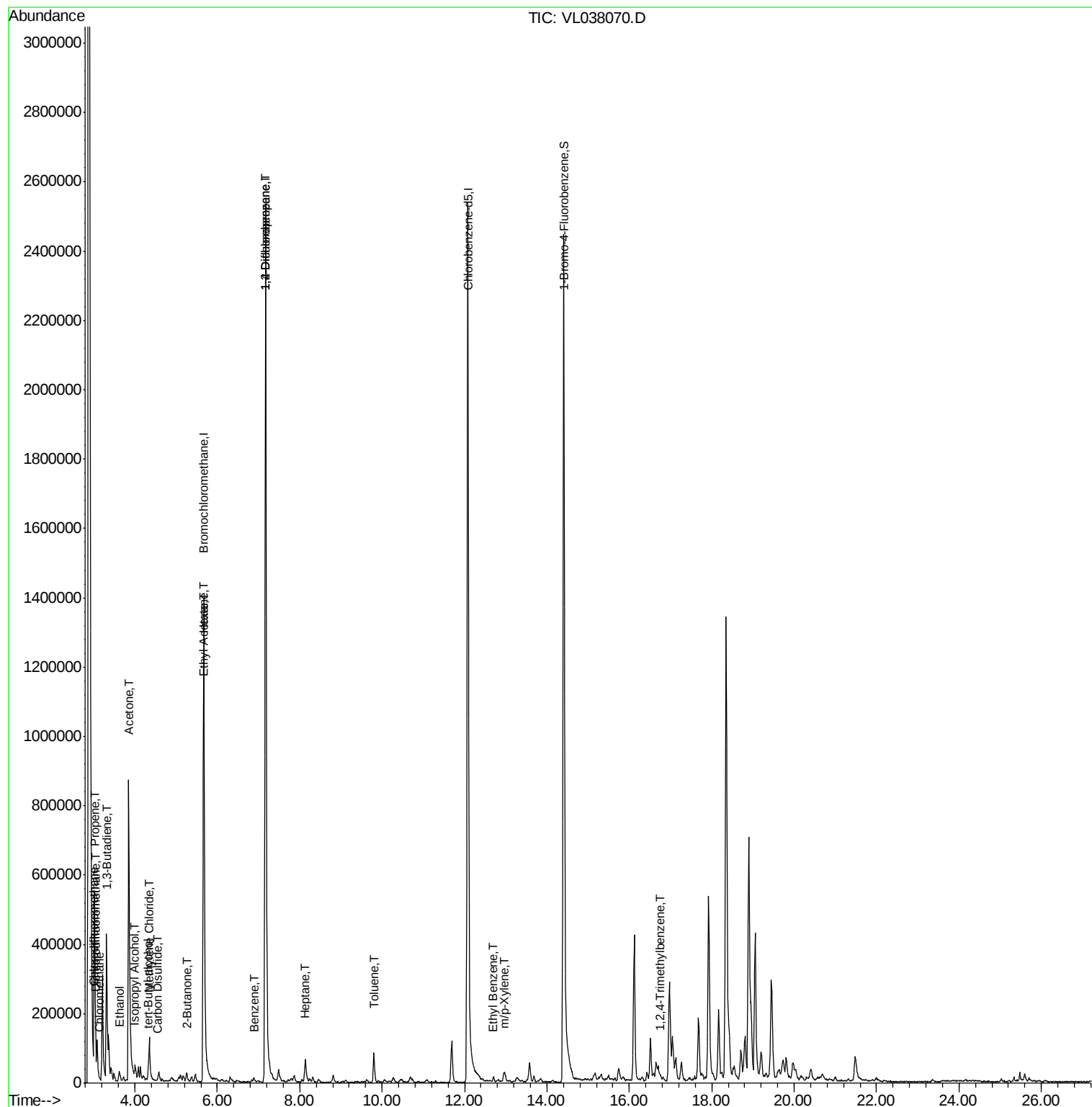
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	8179	0.062	ppbv #	83
3) Chlorodifluoromethane	2.99	51	3417	0.020	ppbv #	89
4) Chloromethane	3.14	50	2111	0.037	ppbv #	84
9) Propene	3.01	41	287775	4.636	ppbv	98
10) Heptane	8.12	43	6527	0.043	ppbv #	56
13) Ethanol	3.61	45	15273	2.546	ppbv #	32
15) Acetone	3.85	43	1195300	17.178	ppbv	99
16) 1,3-Butadiene	3.31	39	138965	2.560	ppbv #	23
17) tert-Butyl alcohol	4.30	59	1758	0.021	ppbv #	71
19) Isopropyl Alcohol	3.99	45	5737	0.114	ppbv #	95
20) Methylene Chloride	4.35	84	46893	1.203	ppbv	87
25) Ethyl Acetate	5.69	43	33229	0.144	ppbv #	79
26) Hexane	5.68	57	44266	0.397	ppbv #	43
27) Carbon Disulfide	4.54	76	2418	0.024	ppbv #	1
34) 2-Butanone	5.26	43	32946	0.356	ppbv #	88
36) Benzene	6.89	78	4859	0.021	ppbv #	86
39) 1,2-Dichloropropane	7.17	63	548577	6.238	ppbv #	27
53) Toluene	9.80	91	68139	0.258	ppbv	99
58) Ethyl Benzene	12.70	91	6671	0.021	ppbv	91
59) m/p-Xylene	12.98	91	11523	0.042	ppbv #	29
74) 1,2,4-Trimethylbenzene	16.75	105	6214	0.022	ppbv #	60

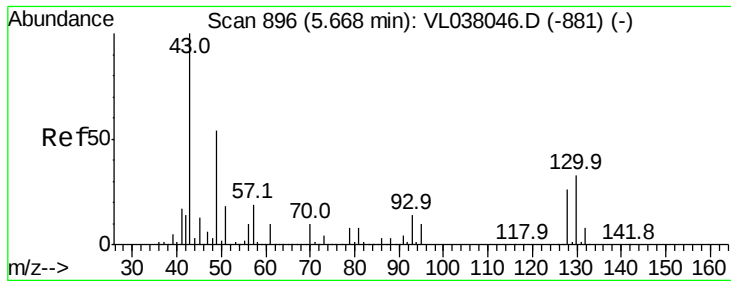
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 19 Nov 2021 1:41

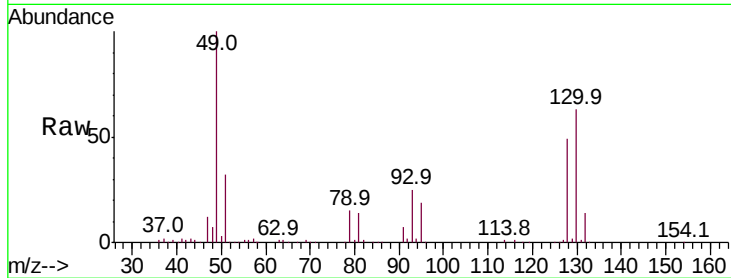
Tot Ion: 49 Resp: 802552

Ion Ratio Lower Upper

49 100

128 50.9 26.5 79.5

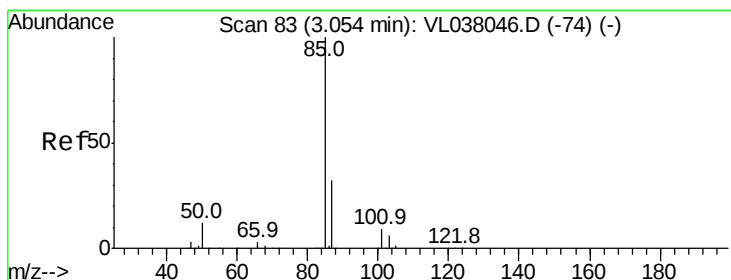
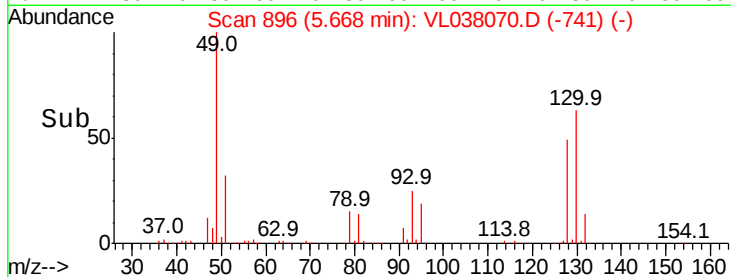
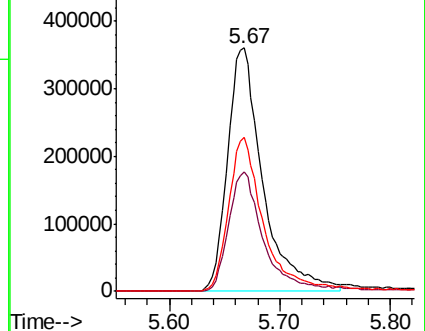
130 64.4 32.5 97.4



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: 0.062 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.00 min

Lab File: VL038070.D

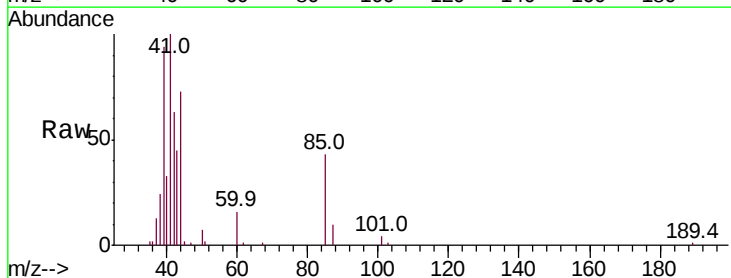
Acq: 19 Nov 2021 1:41

Tgt Ion: 85 Resp: 8179

Ion Ratio Lower Upper

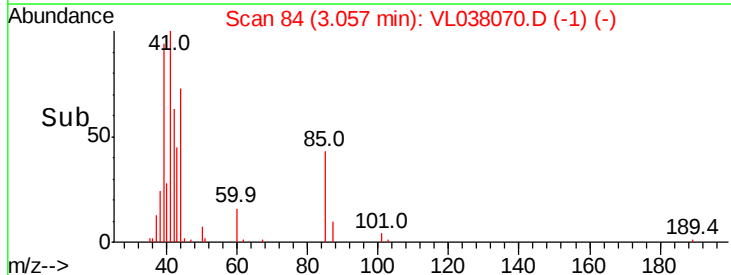
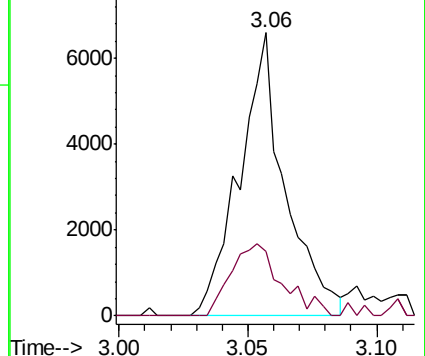
85 100

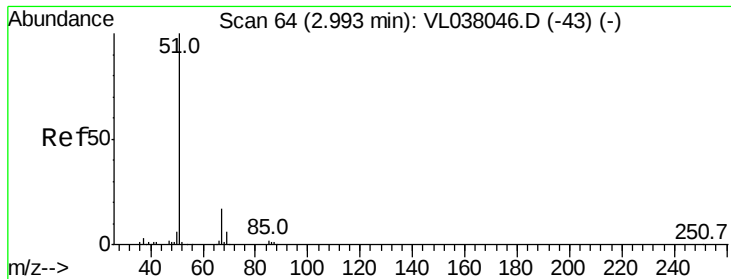
87 22.6 25.8 38.6#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.020 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

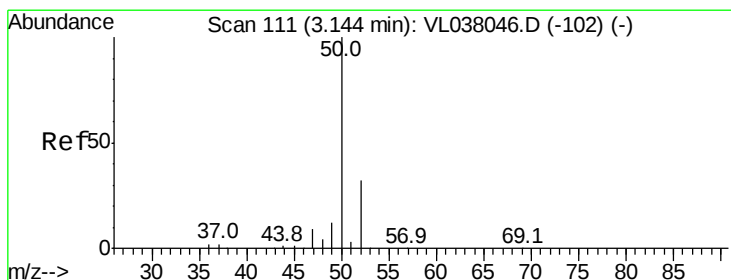
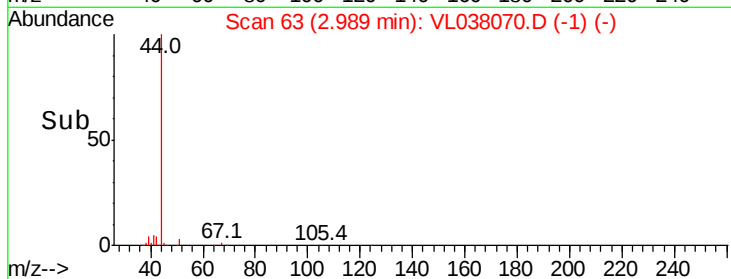
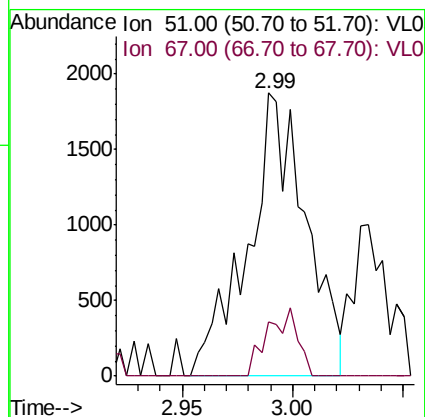
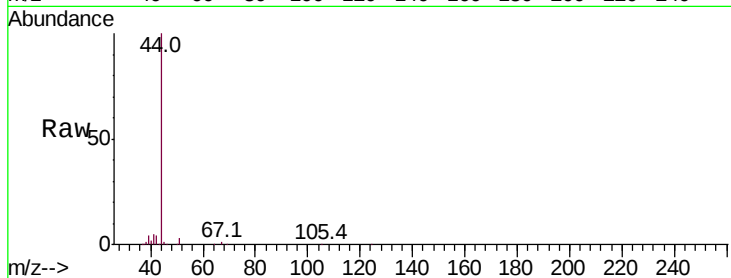
Acq: 19 Nov 2021 1:41 TRANS-SHOPDL

Tot Ion: 51 Resp: 3417

Ion Ratio Lower Upper

51 100

67 12.4 13.8 20.8#



#4

Chloromethane

Concen: 0.037 ppbv

RT: 3.14 min Scan# 111

Delta R.T. -0.00 min

Lab File: VL038070.D

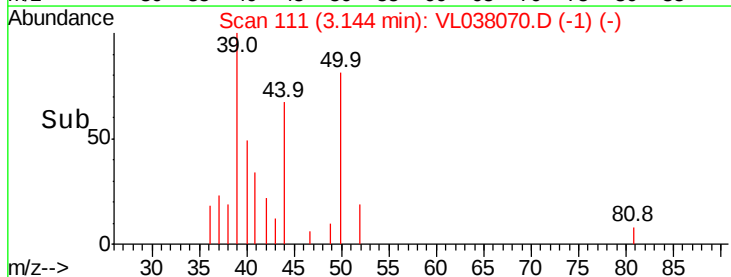
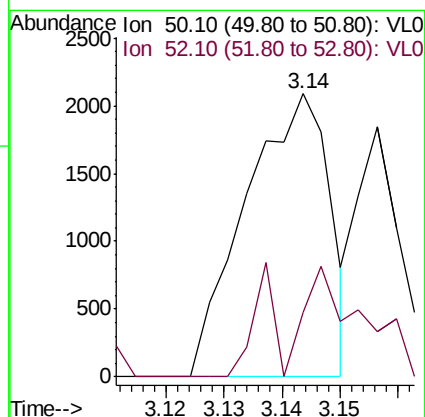
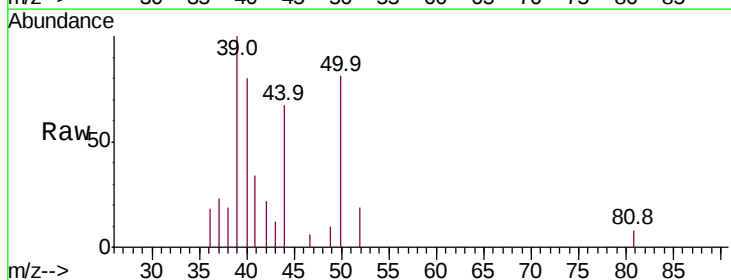
Acq: 19 Nov 2021 1:41

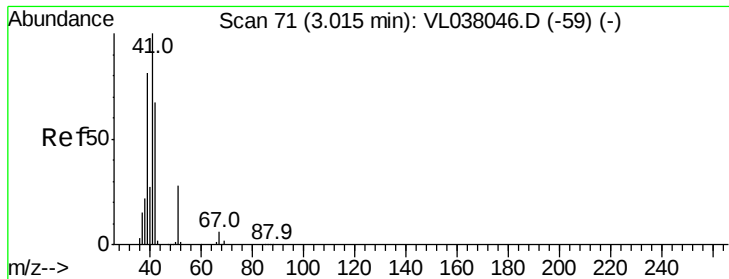
Tgt Ion: 50 Resp: 2111

Ion Ratio Lower Upper

50 100

52 23.0 25.4 38.0#





#9

Propene

Concen: 4.636 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

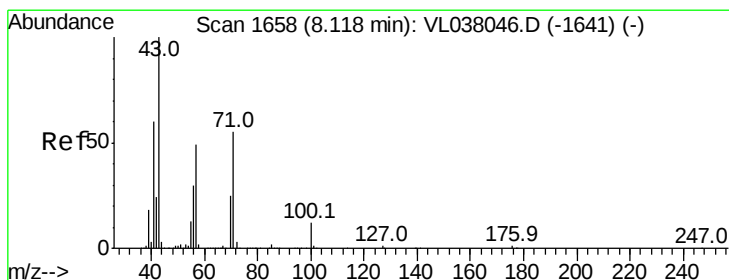
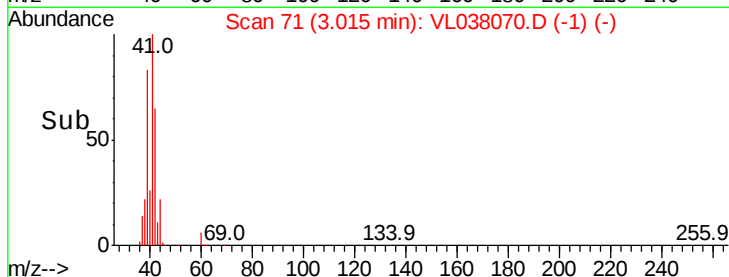
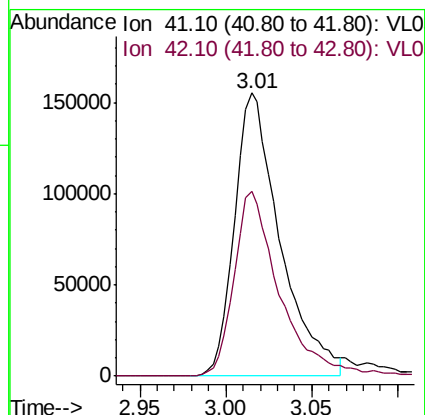
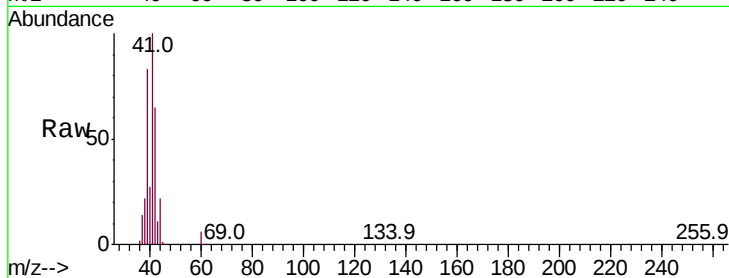
Acq: 19 Nov 2021 1:41 TRANS-SHOPDL

Tot Ion: 41 Resp: 287775

Ion Ratio Lower Upper

41 100

42 66.0 53.8 80.8



#10

Heptane

Concen: 0.043 ppbv

RT: 8.12 min Scan# 1658

Delta R.T. -0.00 min

Lab File: VL038070.D

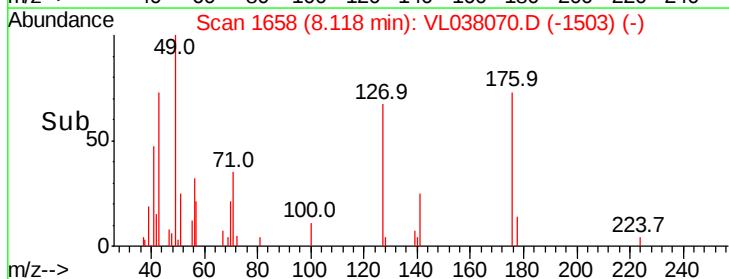
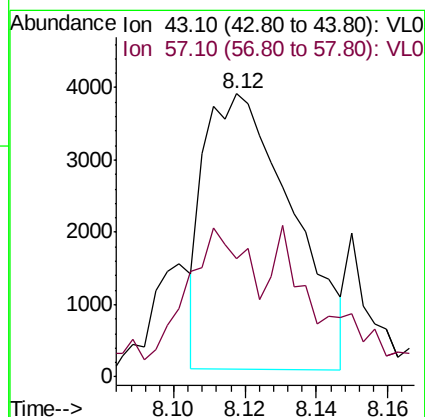
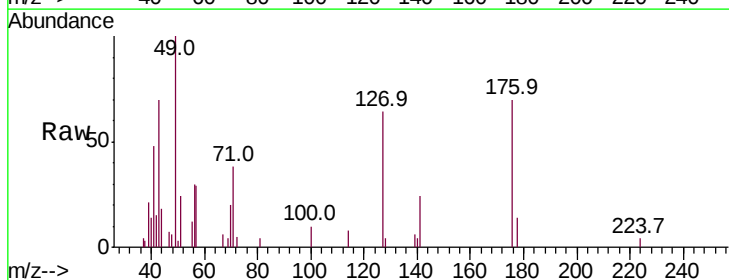
Acq: 19 Nov 2021 1:41

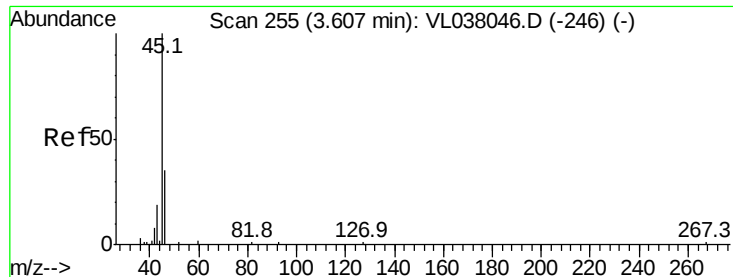
Tgt Ion: 43 Resp: 6527

Ion Ratio Lower Upper

43 100

57 80.8 40.4 60.6#





#13

Ethanol

Concen: 2.546 ppbv

RT: 3.61 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

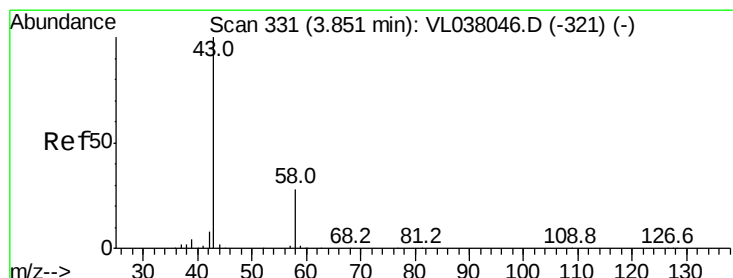
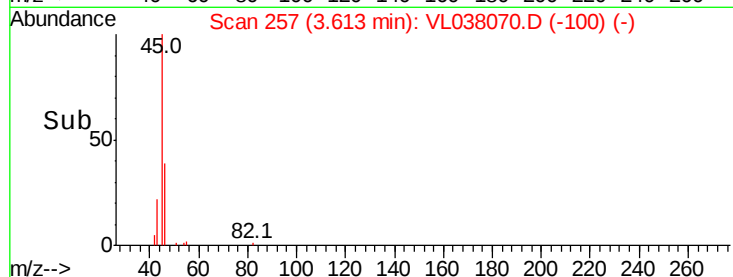
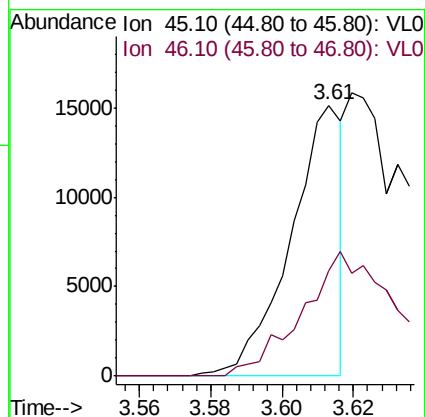
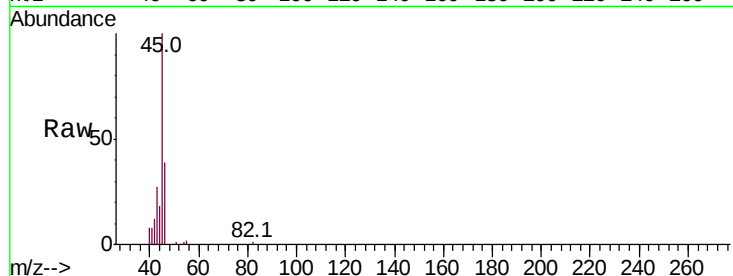
Acq: 19 Nov 2021 1:41 TRANS-SHOPDL

Tot Ion: 45 Resp: 15273

Ion Ratio Lower Upper

45 100

46 0.0 17.6 70.2#



#15

Acetone

Concen: 17.178 ppbv

RT: 3.85 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL038070.D

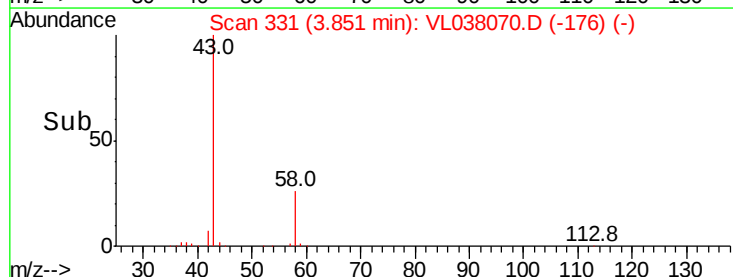
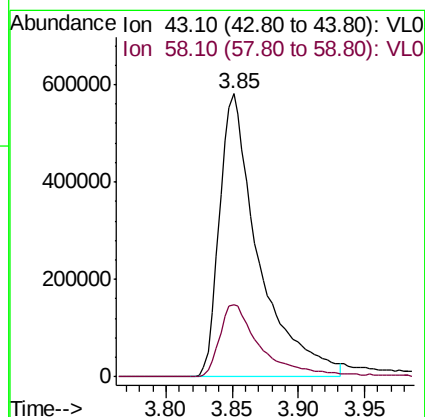
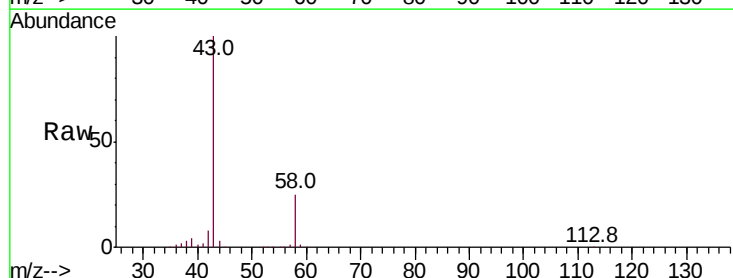
Acq: 19 Nov 2021 1:41

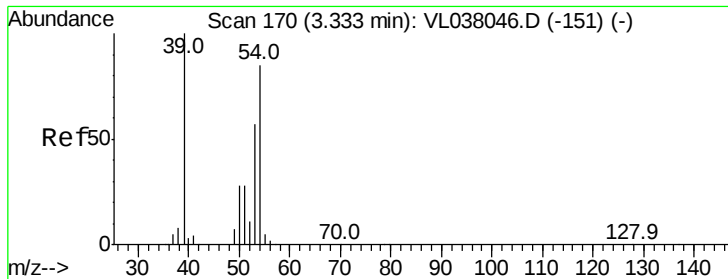
Tgt Ion: 43 Resp: 1195300

Ion Ratio Lower Upper

43 100

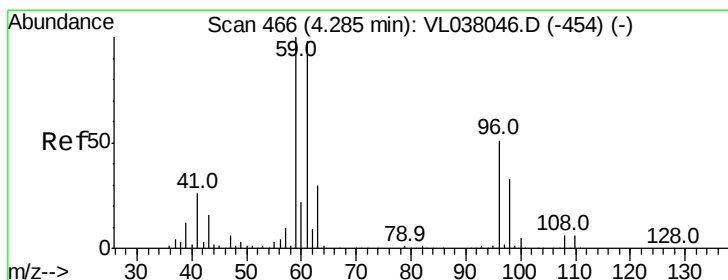
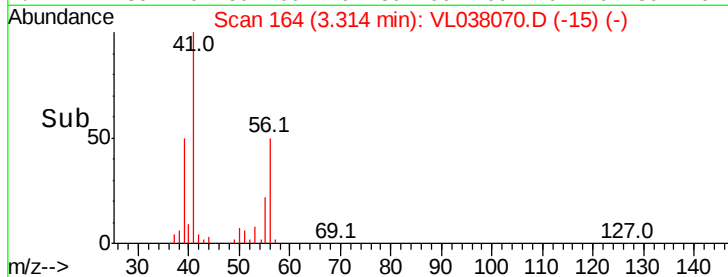
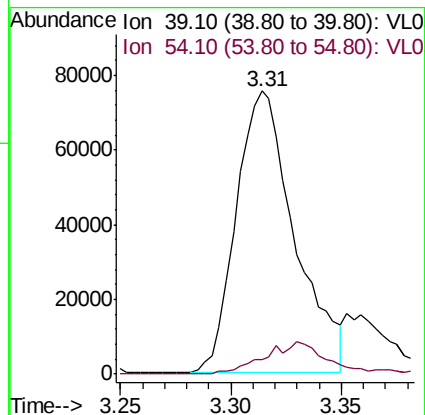
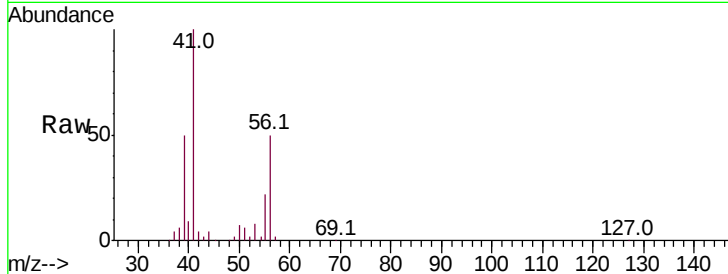
58 28.3 22.4 33.6





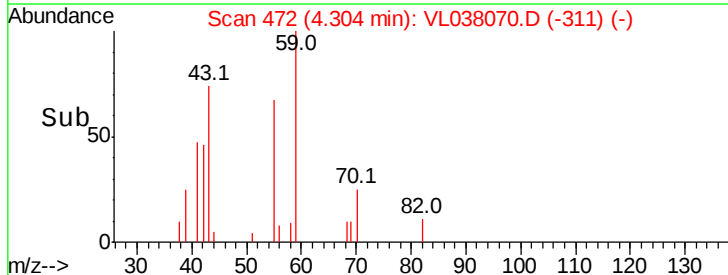
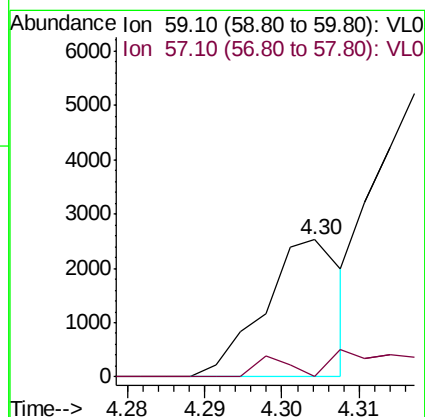
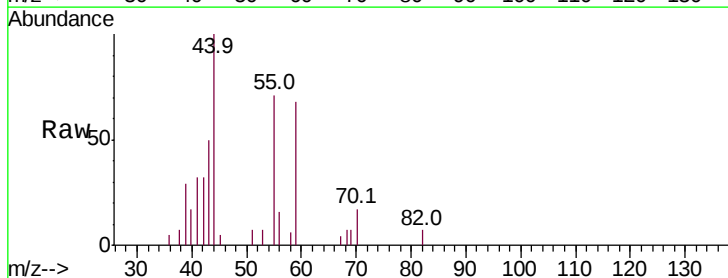
#16
 1,3-Butadiene
 Concen: 2.560 ppbv
 RT: 3.31
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 19 Nov 2021 1:41

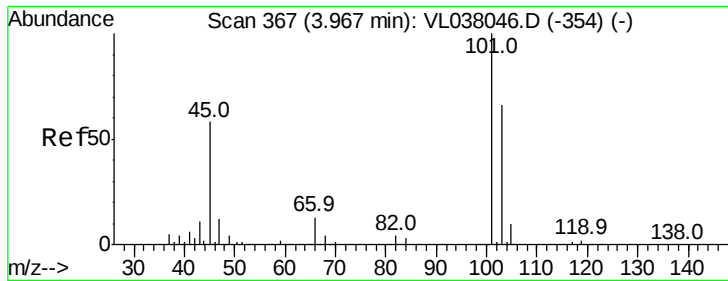
Tot Ion: 39 Resp: 138965
 Ion Ratio Lower Upper
 39 100
 54 12.7 64.4 96.6#



#17
 tert-Butyl alcohol
 Concen: 0.021 ppbv
 RT: 4.30 min Scan# 472
 Delta R.T. 0.02 min
 Lab File: VL038070.D
 Acq: 19 Nov 2021 1:41

Tgt Ion: 59 Resp: 1758
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.6 13.0#





#19

Isopropyl Alcohol

Concen: 0.114 ppbv

RT: 3.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

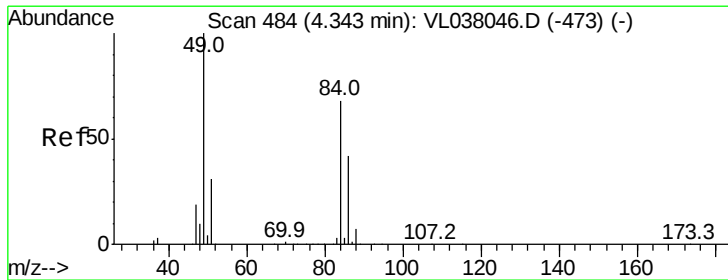
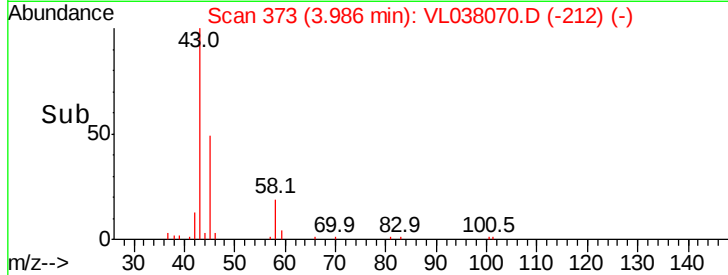
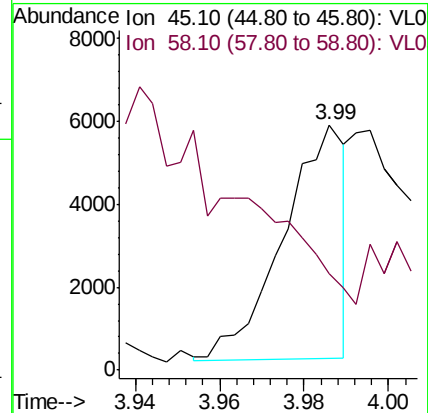
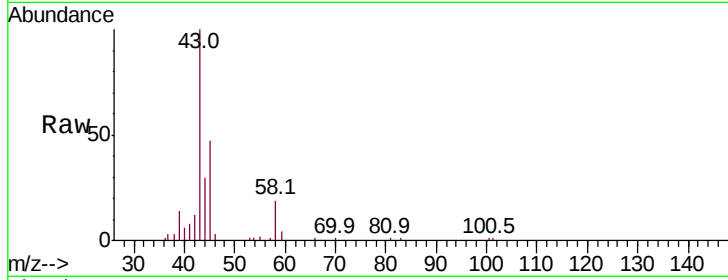
Acq: 19 Nov 2021 1:41 TRANS-SHOPDL

Tot Ion: 45 Resp: 5737

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.0#



#20

Methylene Chloride

Concen: 1.203 ppbv

RT: 4.35 min Scan# 485

Delta R.T. 0.00 min

Lab File: VL038070.D

Acq: 19 Nov 2021 1:41

Tgt Ion: 84 Resp: 46893

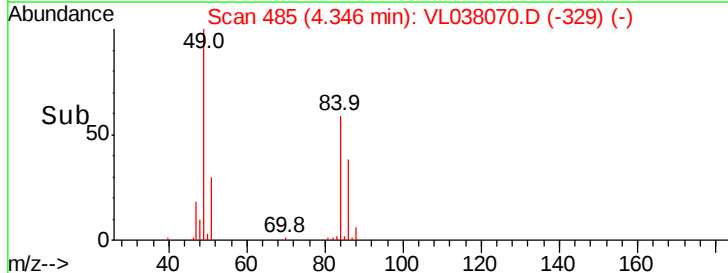
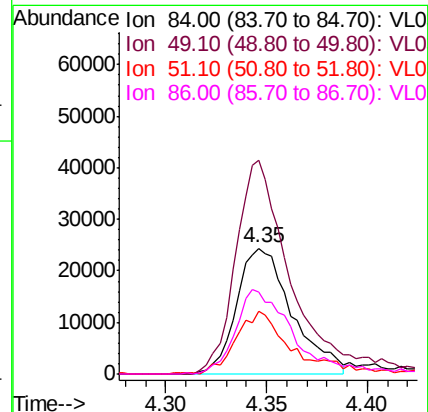
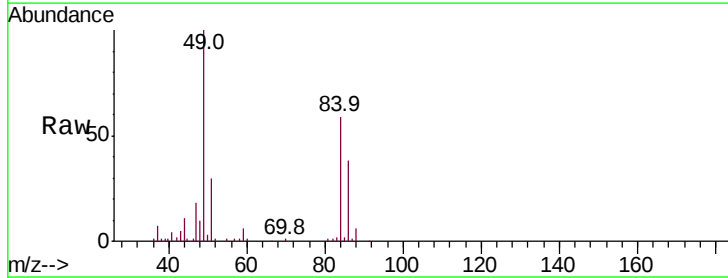
Ion Ratio Lower Upper

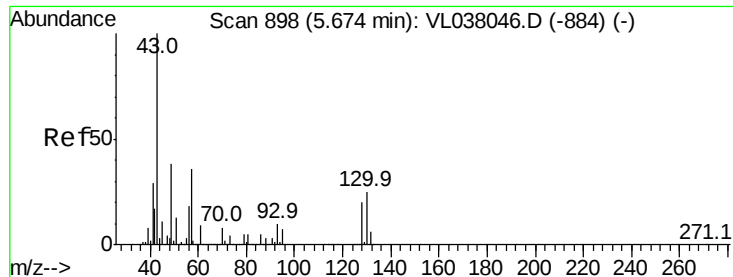
84 100

49 169.8 118.2 177.2

51 50.6 36.8 55.2

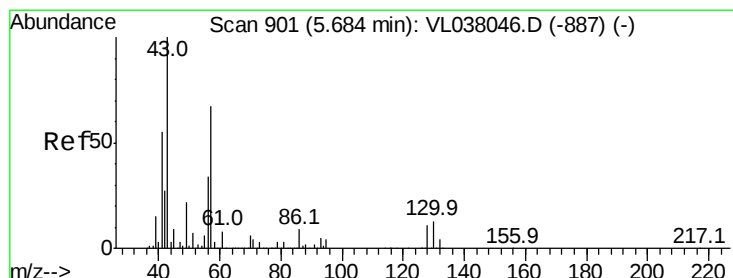
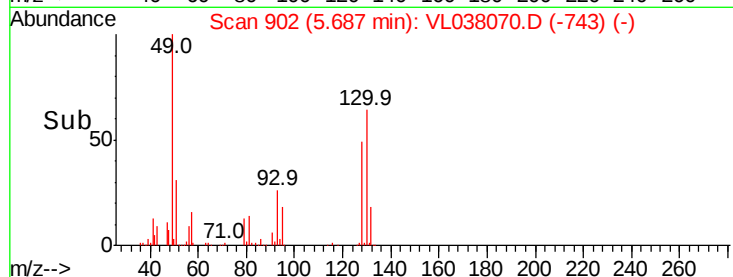
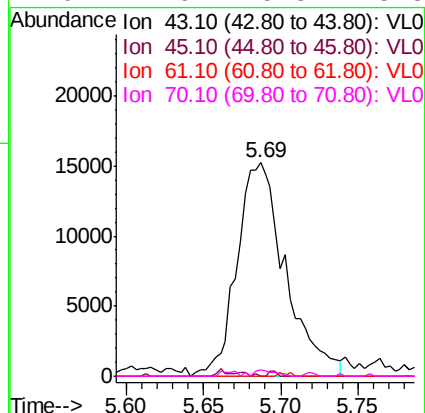
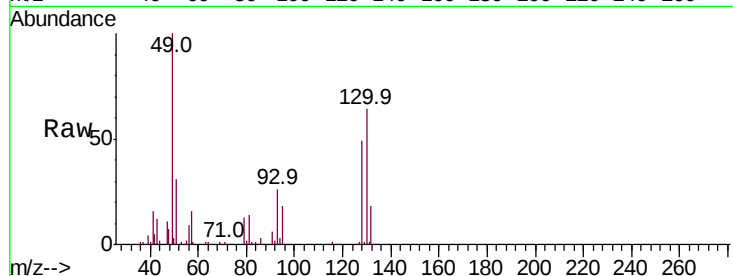
86 65.2 49.0 73.6





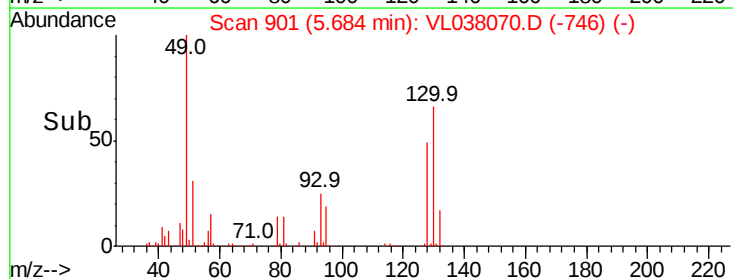
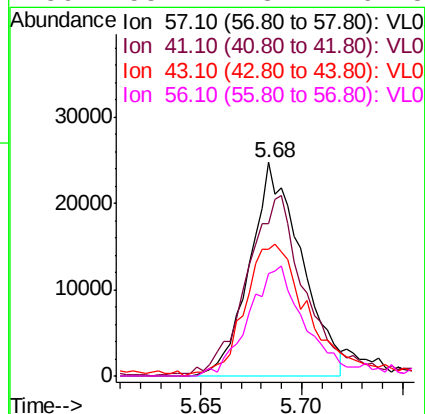
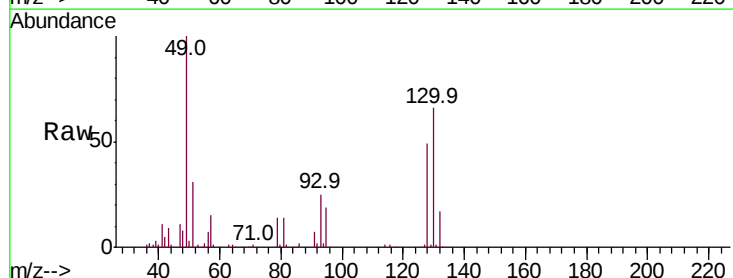
#25
Ethyl Acetate
Concen: 0.144 ppbv
RT: 5.69
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 19 Nov 2021 1:41
TRANS-SHOPDL

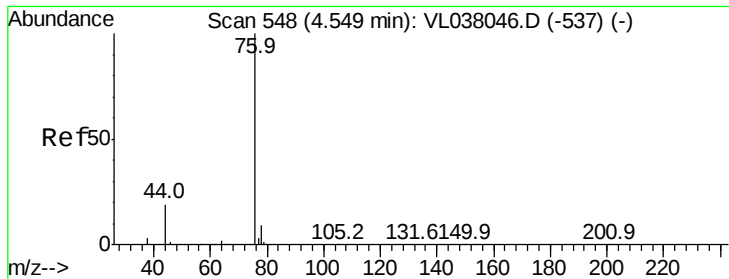
Tot Ion:	43	Resp:	33229
Ion	Ratio	Lower	Upper
43	100		
45	1.5	7.9	11.9#
61	0.0	7.8	11.6#
70	2.6	5.8	8.8#



#26
Hexane
Concen: 0.397 ppbv
RT: 5.68 min Scan# 901
Delta R.T.: -0.00 min
Lab File: VL038070.D
Acq: 19 Nov 2021 1:41

Tgt Ion:	57	Resp:	44266
Ion	Ratio	Lower	Upper
57	100		
41	99.7	71.4	107.2
43	76.8	174.6	261.8#
56	58.4	43.2	64.8





#27

Carbon Disulfide

Concen: 0.024 ppbv

RT: 4.54 Instrument: MSVOA_1

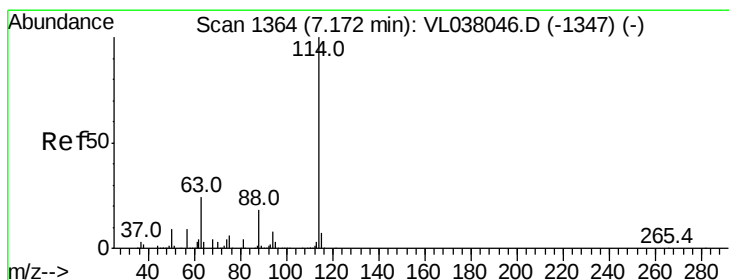
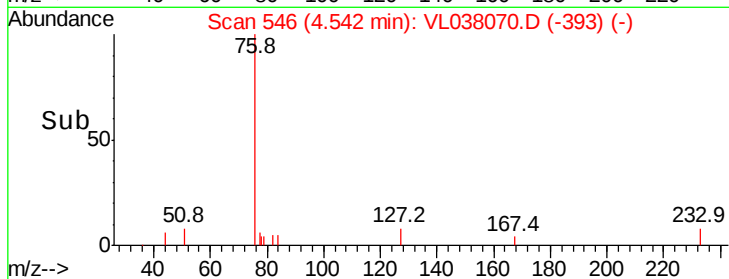
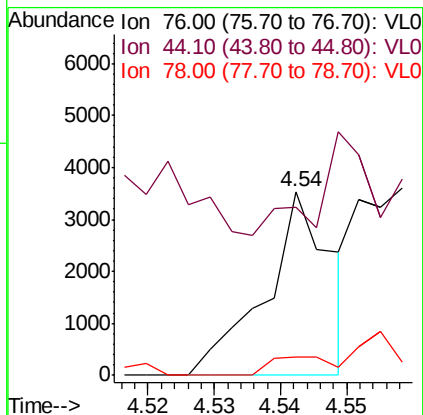
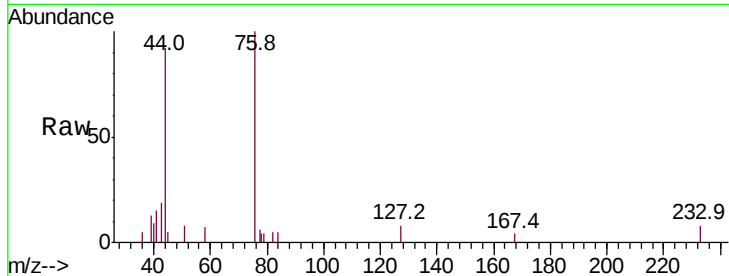
Delta R.T.

Lab File: ClientSampleId:

Acq: 19 Nov 2021 1:41

Tot Ion: 76 Resp: 2418

Ion	Ratio	Lower	Upper
76	100		
44	122.1	14.9	22.3#
78	0.0	7.6	11.4#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1364

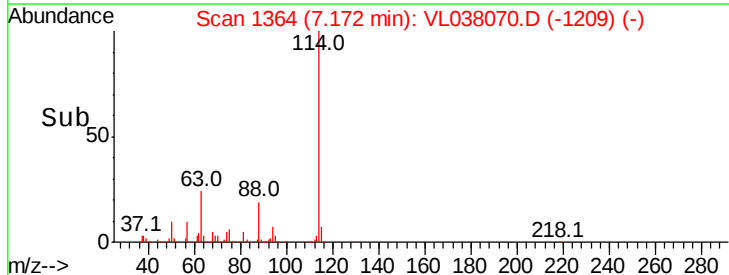
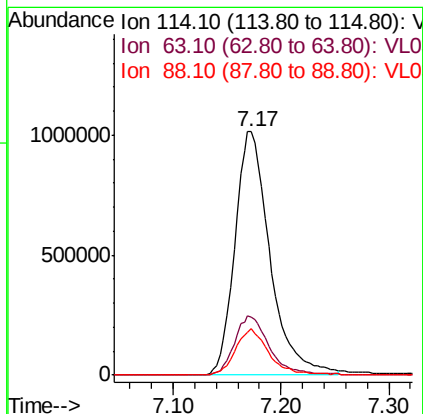
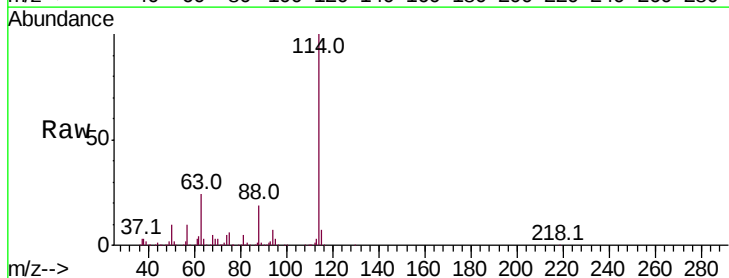
Delta R.T. -0.00 min

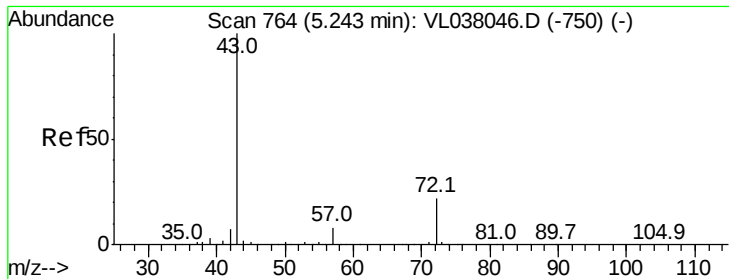
Lab File: VL038070.D

Acq: 19 Nov 2021 1:41

Tgt Ion: 114 Resp: 2298237

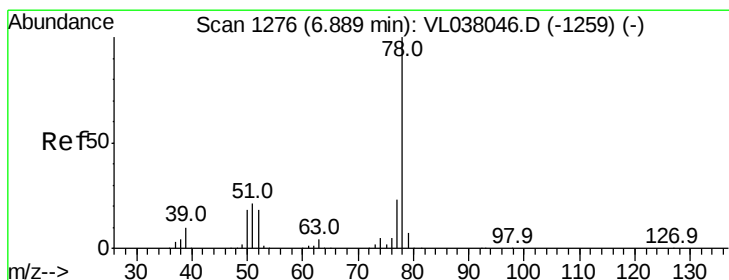
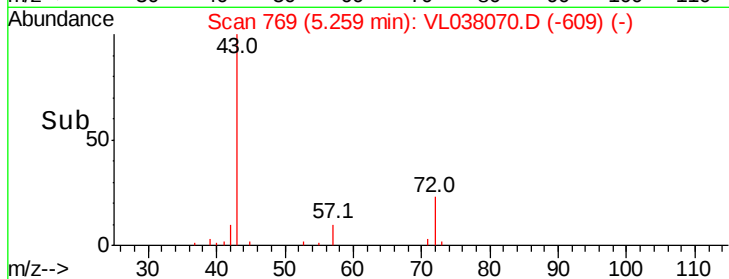
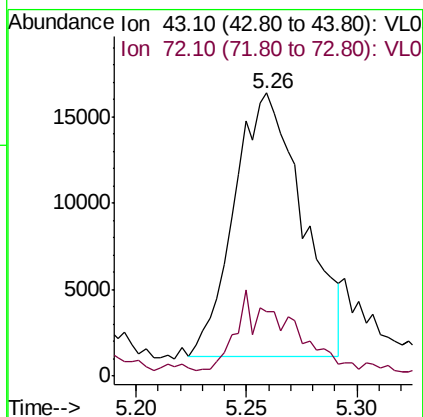
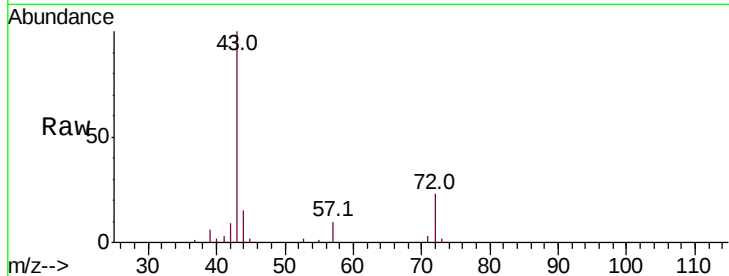
Ion	Ratio	Lower	Upper
114	100		
63	24.6	19.7	29.5
88	18.6	14.4	21.6





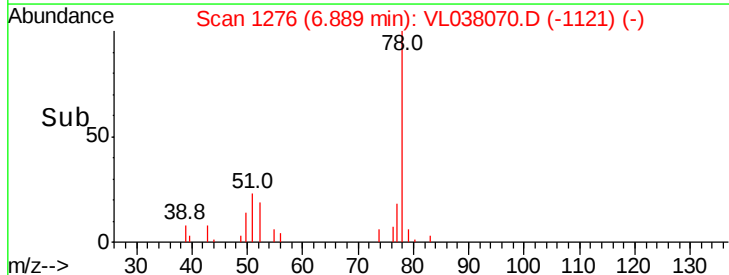
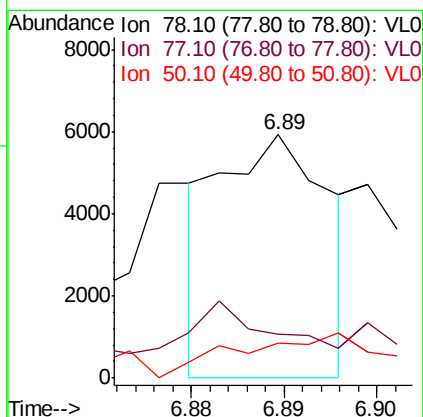
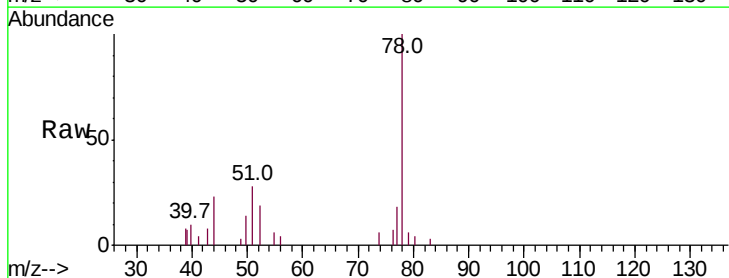
#34
2-Butanone
Concen: 0.356 ppbv
RT: 5.26
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 19 Nov 2021 1:41

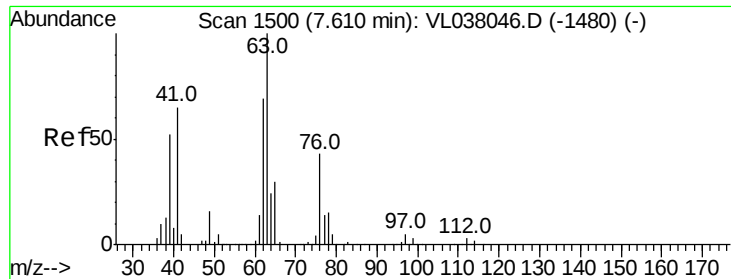
Tot Ion: 43 Resp: 32946
Ion Ratio Lower Upper
43 100
72 29.5 18.8 28.2#



#36
Benzene
Concen: 0.021 ppbv
RT: 6.89 min Scan# 1276
Delta R.T. -0.00 min
Lab File: VL038070.D
Acq: 19 Nov 2021 1:41

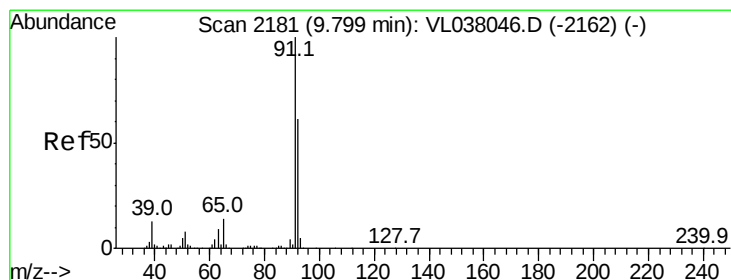
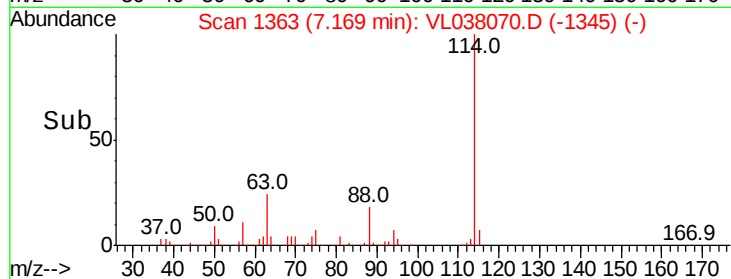
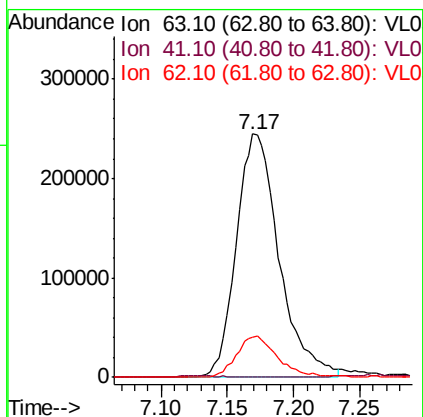
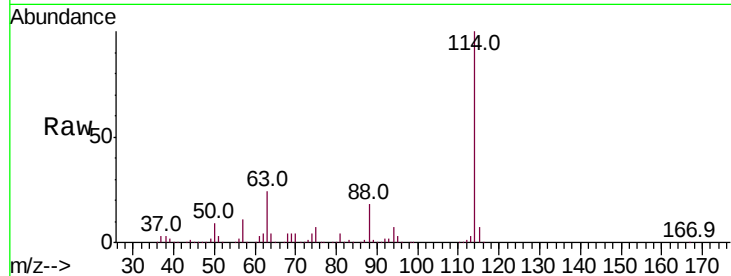
Tgt Ion: 78 Resp: 4859
Ion Ratio Lower Upper
78 100
77 24.4 18.2 27.4
50 30.7 14.7 22.1#





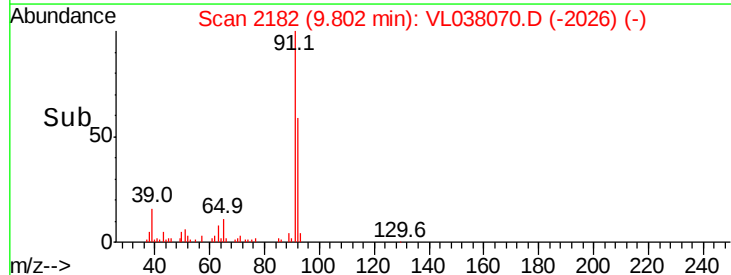
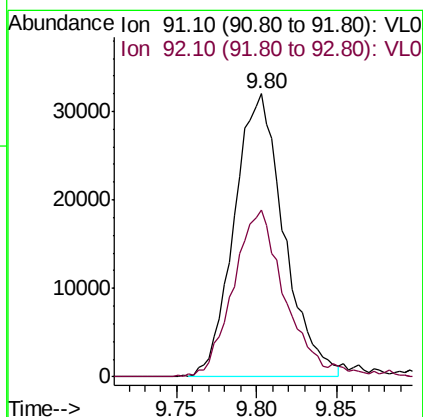
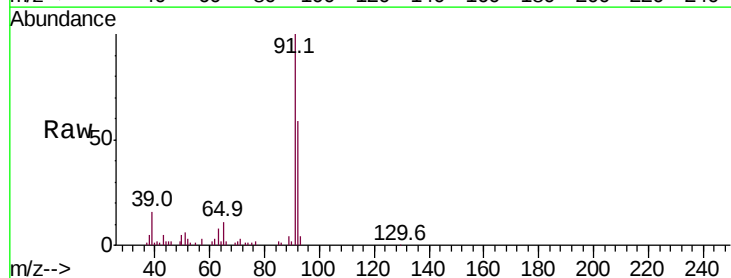
#39
 1,2-Dichloropropane
 Concen: 6.238 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 TRANS-SHOPDL
 Acq: 19 Nov 2021 1:41

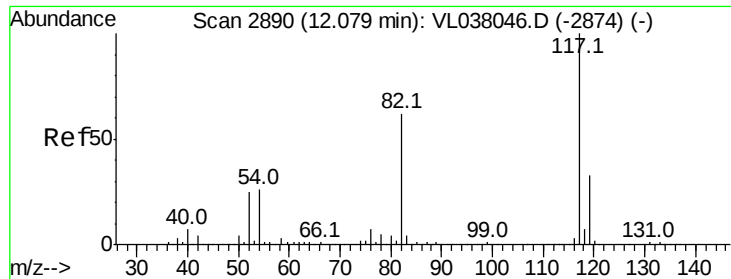
Tot Ion: 63 Resp: 548577
 Ion Ratio Lower Upper
 63 100
 41 0.0 52.3 78.5#
 62 16.4 55.1 82.7#



#53
 Toluene
 Concen: 0.258 ppbv
 RT: 9.80 min Scan# 2182
 Delta R.T. 0.00 min
 Lab File: VL038070.D
 Acq: 19 Nov 2021 1:41

Tgt Ion: 91 Resp: 68139
 Ion Ratio Lower Upper
 91 100
 92 62.9 49.7 74.5

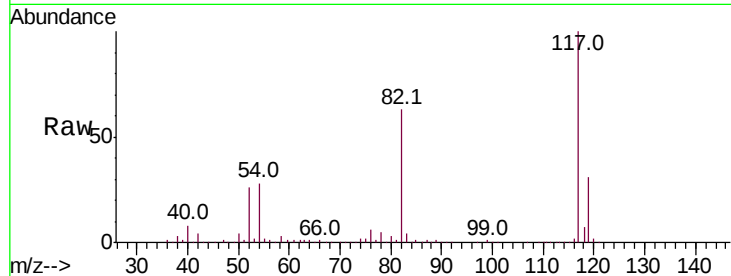




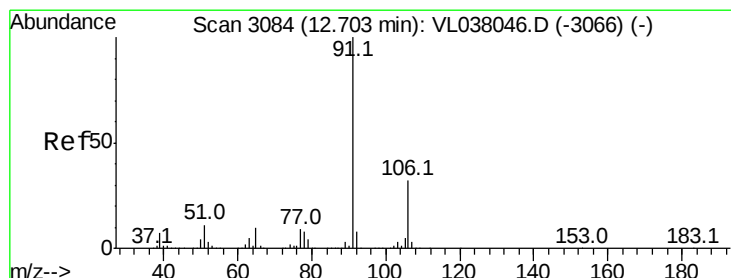
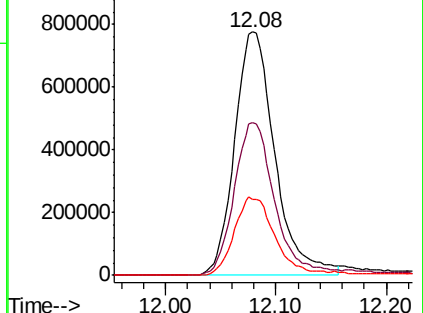
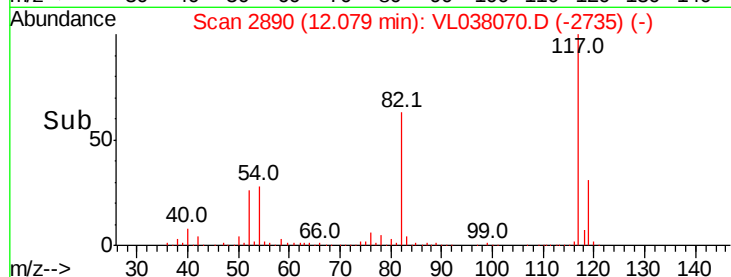
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
TRANS-SHOPDL
Acq: 19 Nov 2021 1:41

Tot Ion: 117 Resp: 1963488

Ion	Ratio	Lower	Upper
117	100		
82	68.1	52.8	79.2
119	33.7	26.8	40.2



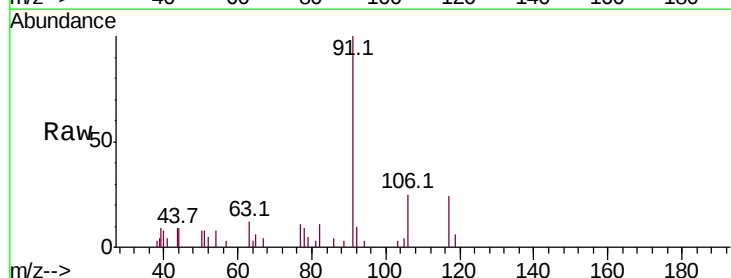
Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



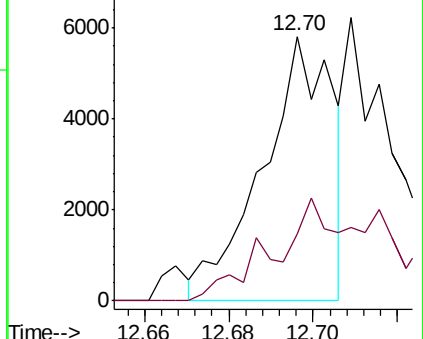
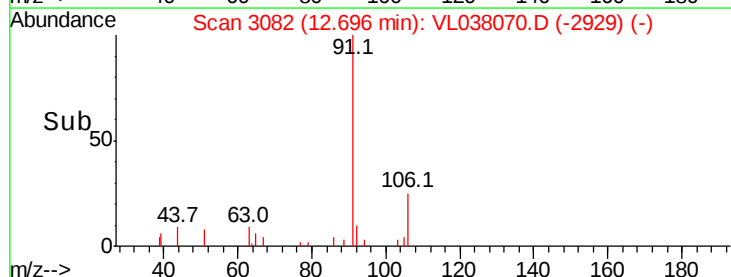
#58
Ethyl Benzene
Concen: 0.021 ppbv
RT: 12.70 min Scan# 3082
Delta R.T.: -0.01 min
Lab File: VL038070.D
Acq: 19 Nov 2021 1:41

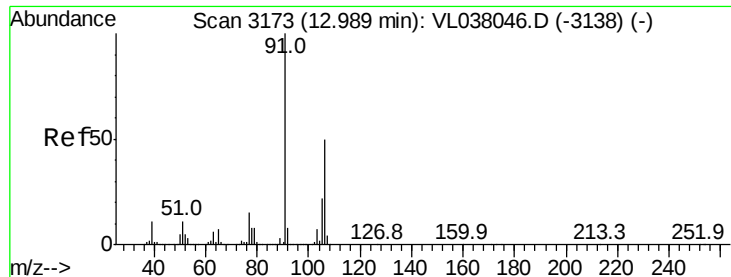
Tgt Ion: 91 Resp: 6671

Ion	Ratio	Lower	Upper
91	100		
106	27.4	25.8	38.6



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 0.042 ppbv

RT: 12.98

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

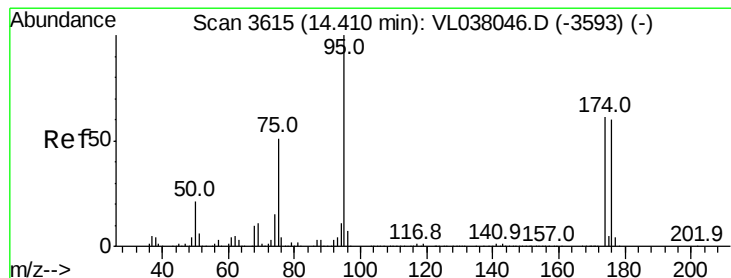
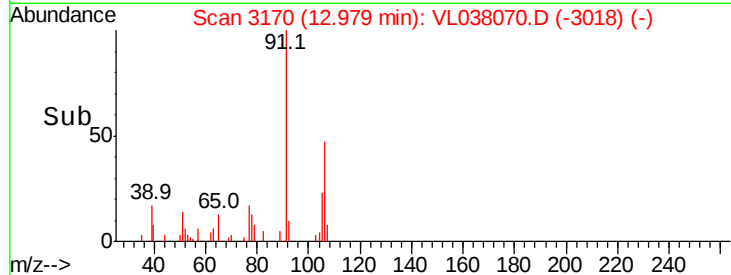
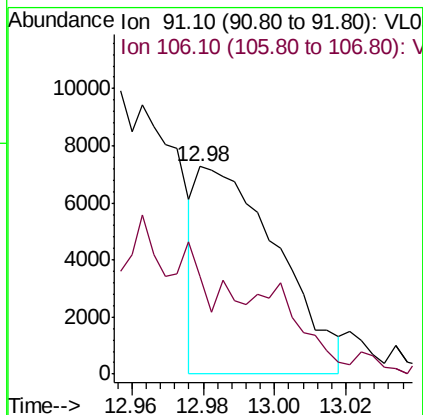
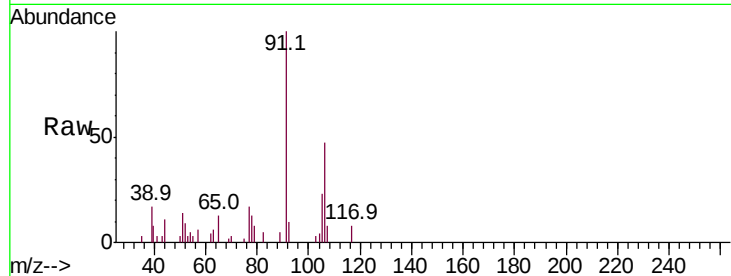
Acq: 19 Nov 2021 1:41

Tot Ion: 91 Resp: 11523

Ion Ratio Lower Upper

91 100

106 0.0 38.1 57.1#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.253 ppbv

RT: 14.41 min Scan# 3614

Delta R.T. -0.00 min

Lab File: VL038070.D

Acq: 19 Nov 2021 1:41

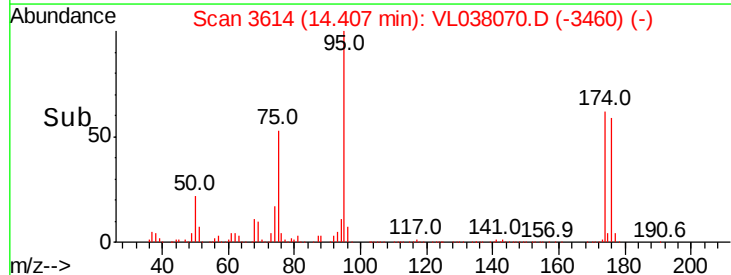
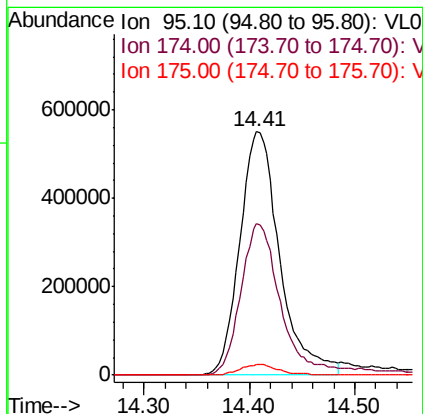
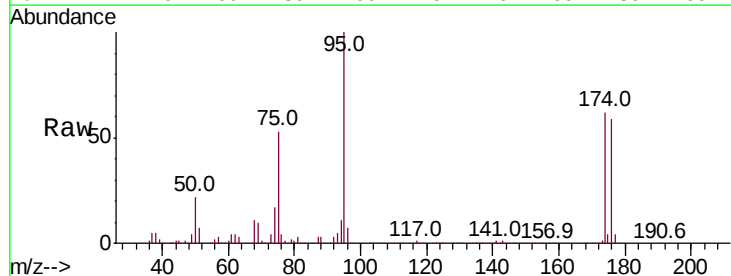
Tgt Ion: 95 Resp: 1452107

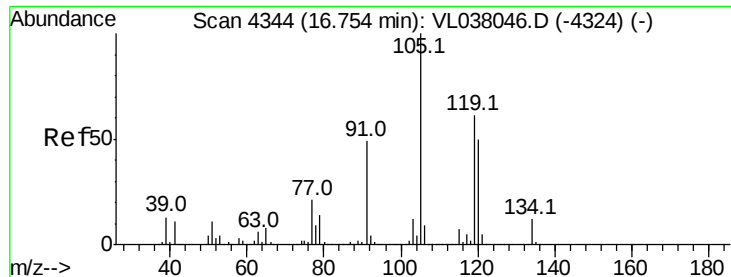
Ion Ratio Lower Upper

95 100

174 66.3 53.1 79.7

175 4.3 4.0 6.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.022 ppbv
 RT: 16.75
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 TRANS-SHOPDL
 Acq: 19 Nov 2021 1:41

Tot Ion:	105	Resp:	6214
Ion	Ratio	Lower	Upper
105	100		
120	25.3	40.1	60.1#
91	9.5	39.8	59.8#
77	19.4	16.6	25.0

