

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111921\
 Data File : VL038081.D
 Acq On : 19 Nov 2021 12:23
 Operator : SY/AP
 Sample : VL1119ABS01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1119ABS01

Quant Time: Nov 22 06:35:20 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	5.65	49	790849	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	2304572	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	2648459	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	1596715	8.36	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	83.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.04	85	1098713	8.411 ppbv	96
3) Chlorodifluoromethane	2.98	51	1640596	9.878 ppbv	100
4) Chloromethane	3.13	50	567813	10.043 ppbv	100
5) Vinyl Chloride	3.25	62	565915	10.203 ppbv	98
6) Bromomethane	3.46	94	303468	10.214 ppbv	98
7) Chloroethane	3.55	64	187583	9.530 ppbv	90
8) Dichlorotetrafluoroethane	3.18	85	1305886	10.049 ppbv	97
9) Propene	3.01	41	590606	9.656 ppbv	99
10) Heptane	8.10	43	1449544	9.589 ppbv	100
11) Trichlorofluoromethane	3.94	101	1243858	10.012 ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.47	101	875143	9.958 ppbv	99
13) Ethanol	3.59	45	45789	7.747 ppbv	95
14) Bromoethene	3.73	108	403420	10.251 ppbv	95
15) Acetone	3.84	43	640322	9.339 ppbv	99
16) 1,3-Butadiene	3.32	39	538844	10.073 ppbv	98
17) tert-Butyl alcohol	4.27	59	773182	9.296 ppbv	99
18) 1,1-Dichloroethene	4.28	96	402056	9.973 ppbv	96
19) Isopropyl Alcohol	3.95	45	449968	9.082 ppbv	# 97
20) Methylene Chloride	4.33	84	339840	8.849 ppbv	97
21) Allyl Chloride	4.40	41	629939	9.925 ppbv	99
22) trans-1,2-Dichloroethene	4.87	96	399809	9.791 ppbv	98
23) Vinyl Acetate	5.06	43	979494	9.868 ppbv	98
24) 1,1-Dichloroethane	5.00	63	827402	10.010 ppbv	99
25) Ethyl Acetate	5.66	43	2185732	9.591 ppbv	99
26) Hexane	5.67	57	1062174	9.670 ppbv	96
27) Carbon Disulfide	4.54	76	997212	10.135 ppbv	98
28) Methyl tert-Butyl Ether	5.02	73	911591	9.770 ppbv	100
29) Chloroform	5.73	83	1606746	9.925 ppbv	99
30) Cyclohexane	7.11	84	935487	9.381 ppbv	99
31) cis-1,2-Dichloroethene	5.53	61	1058514	10.131 ppbv	97
32) 1,1,1-Trichloroethane	6.49	97	1619145	9.855 ppbv	99
34) 2-Butanone	5.23	43	964419	10.378 ppbv	99
35) Carbon Tetrachloride	7.00	117	1664404	10.279 ppbv	97
36) Benzene	6.87	78	2282031	9.927 ppbv	99
37) 1,2-Dichloroethane	6.29	62	1201739	10.824 ppbv	99
38) Trichloroethene	7.82	130	821088	9.469 ppbv	96
39) 1,2-Dichloropropane	7.59	63	884310	10.028 ppbv	97
40) 1,4-Dioxane	7.82	88	205227	8.933 ppbv	# 1
41) Tetrahydrofuran	6.03	42	566831	9.826 ppbv	99
42) Bromodichloromethane	7.77	83	1750337	10.370 ppbv	100
43) Methyl Methacrylate	7.99	69	845501	10.750 ppbv	99

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 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)
44) 2,2,4-Trimethylpentane	7.85	57	3685134	9.581	ppbv	99
45) t-1,3-Dichloropropene	9.26	75	720863	11.427	ppbv	95
46) cis-1,3-Dichloropropene	8.68	75	921793	10.803	ppbv	97
47) 1,1,2-Trichloroethane	9.46	97	903366	9.781	ppbv	95
48) Dibromochloromethane	10.28	129	1462839	10.401	ppbv	98
49) Bromoform	13.01	173	1065533	10.590	ppbv	97
50) 4-Methyl-2-Pentanone	8.72	43	1470049	10.417	ppbv	99
51) 2-Hexanone	10.11	43	679208	10.230	ppbv #	100
52) Tetrachloroethene	11.20	164	741823	8.721	ppbv	98
53) Toluene	9.78	91	2579711	9.753	ppbv	99
54) 1,2-Dibromoethane	10.59	107	1310935	10.049	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.10	131	930469	7.739	ppbv	97
57) Chlorobenzene	12.12	112	1806750	7.611	ppbv	98
58) Ethyl Benzene	12.69	91	3365851	7.689	ppbv	99
59) m/p-Xylene	12.97	91	2981917	8.092	ppbv #	44
60) o-Xylene	13.67	91	2482340	7.262	ppbv	99
61) Styrene	13.50	104	1412604	7.708	ppbv	96
62) Isopropylbenzene	14.64	105	3586526	7.392	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.65	83	1779861	7.010	ppbv	99
64) n-propylbenzene	15.54	120	920891	7.450	ppbv	95
65) tert-Butylbenzene	16.72	119	3001001	7.020	ppbv	99
66) Benzyl Chloride	16.96	91	144073	6.650	ppbv	96
67) sec-Butylbenzene	17.27	105	4220865	7.086	ppbv	100
69) p-Isopropyltoluene	17.63	119	3395303	7.287	ppbv	99
70) n-Butylbenzene	18.52	91	3331514	7.478	ppbv	99
71) 2-Chlorotoluene	15.43	91	2627142	7.405	ppbv	98
72) 4-Ethyltoluene	15.81	105	2942770	7.425	ppbv	99
73) 1,3,5-Trimethylbenzene	15.97	105	2655774	7.337	ppbv	100
74) 1,2,4-Trimethylbenzene	16.74	105	2701745	7.243	ppbv	98
75) 1,3-Dichlorobenzene	16.97	146	1517768	7.408	ppbv	99
76) 1,4-Dichlorobenzene	17.11	146	1469433	7.127	ppbv	99
77) 1,2-Dichlorobenzene	17.79	146	1420947	7.163	ppbv	99
78) Hexachloro-1,3-Butadiene	23.35	225	782431	6.317	ppbv	99
79) Naphthalene	22.16	128	1517815	7.726	ppbv	99
80) Naphthalene, 2-methyl-	24.95	142	379743	9.020	ppbv	99
81) 1,2,4-Trichlorobenzene	21.90	180	815109	7.221	ppbv	97

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

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ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

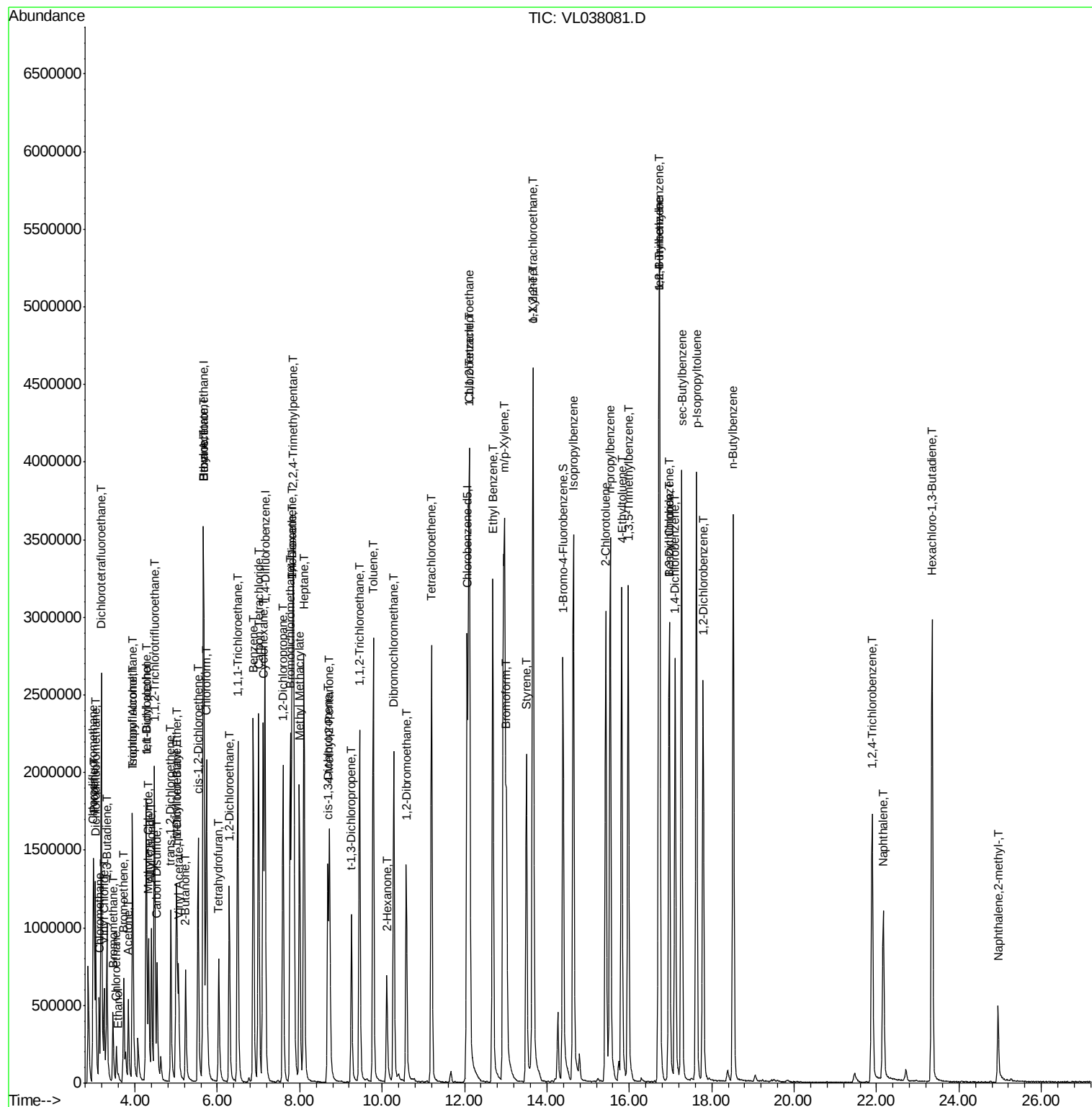
Quant Time: Nov 22 06:35:20 2021

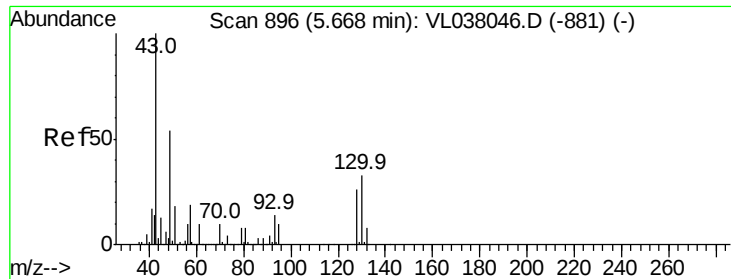
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111821AIR.M

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: VL1119ABS01

Acq: 19 Nov 2021 12:23

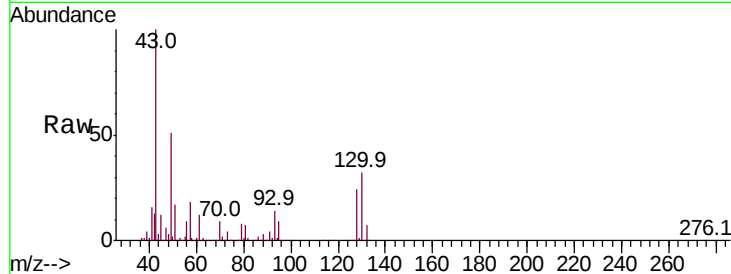
Tot Ion: 49 Resp: 790849

Ion Ratio Lower Upper

49 100

128 52.2 26.5 79.5

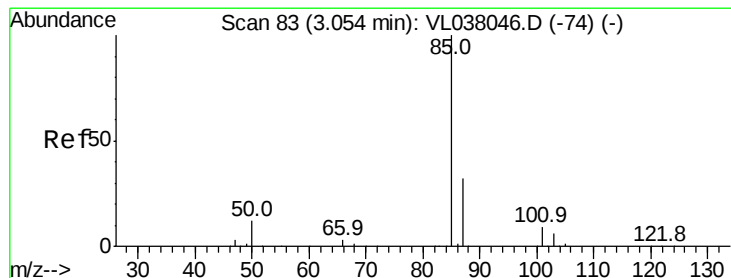
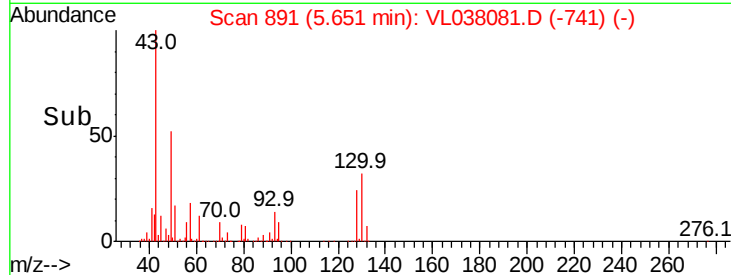
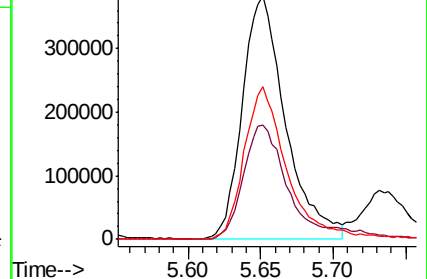
130 63.1 32.5 97.4



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



#2

Dichlorodifluoromethane

Concen: 8.411 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.01 min

Lab File: VL038081.D

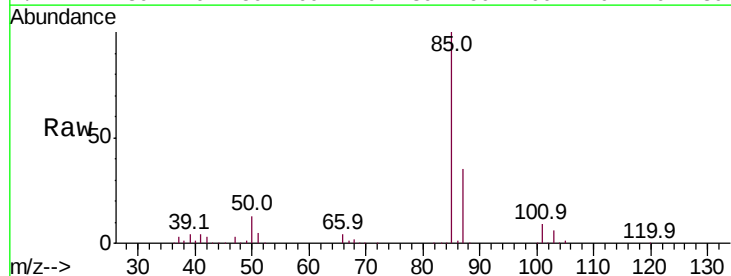
Acq: 19 Nov 2021 12:23

Tgt Ion: 85 Resp: 1098713

Ion Ratio Lower Upper

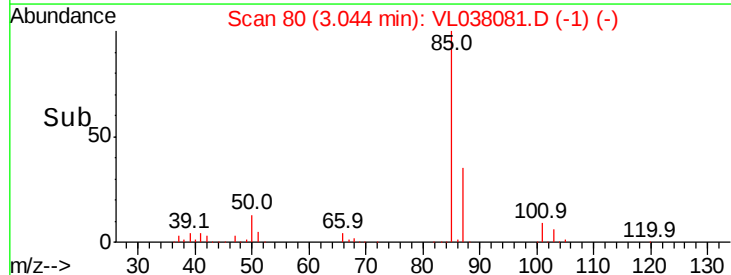
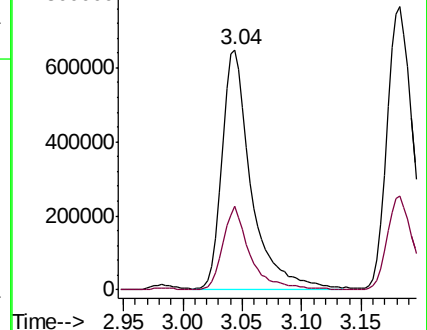
85 100

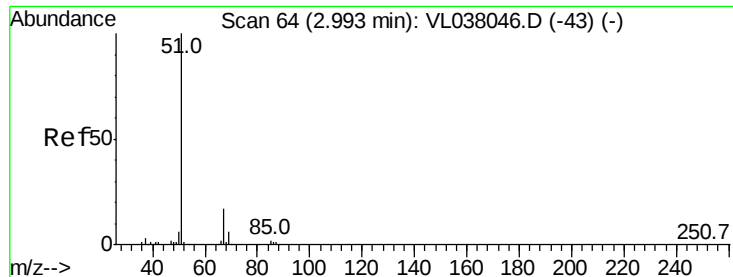
87 34.7 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

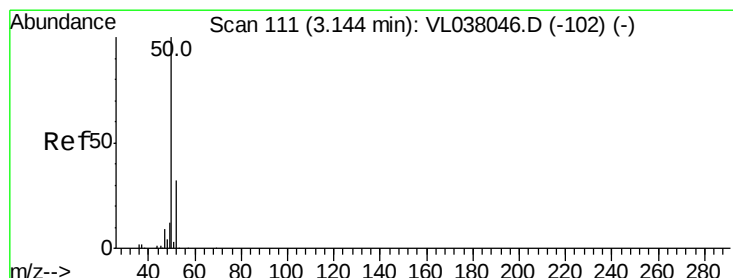
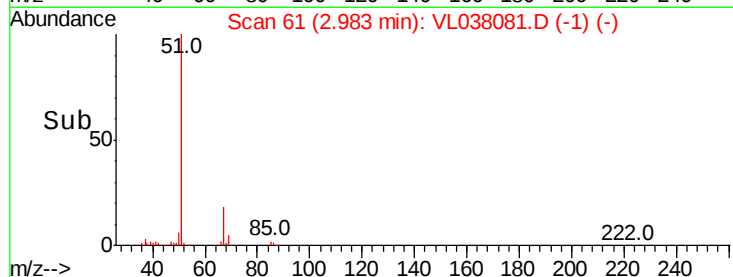
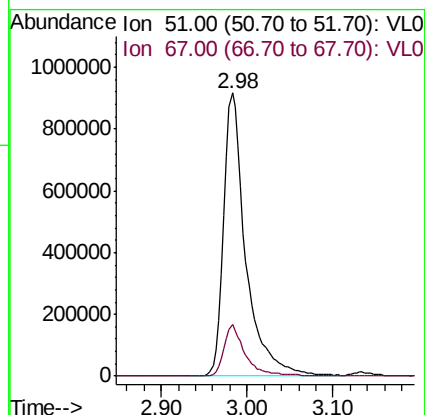
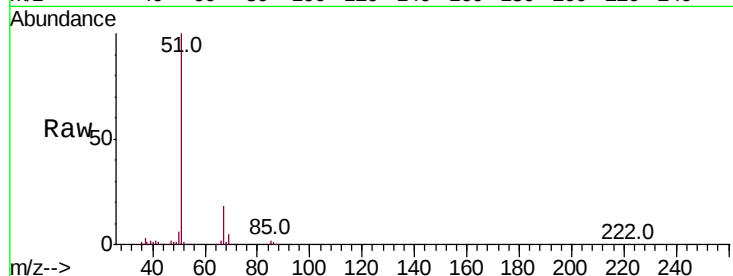
Ion 87.00 (86.70 to 87.70): VL0





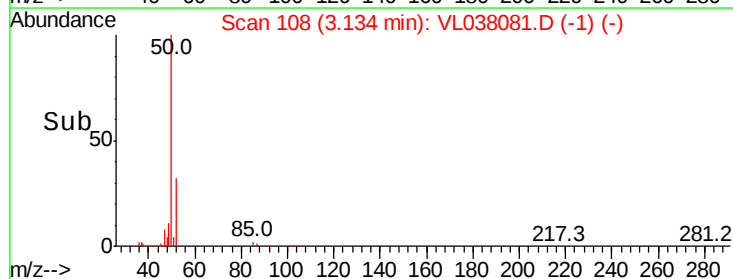
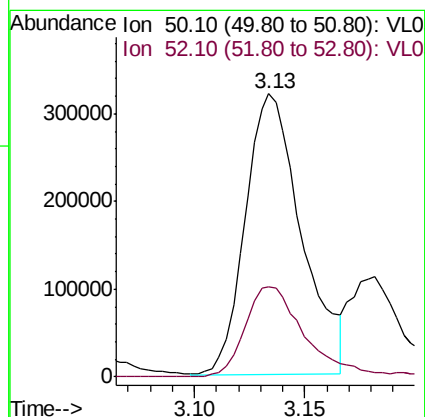
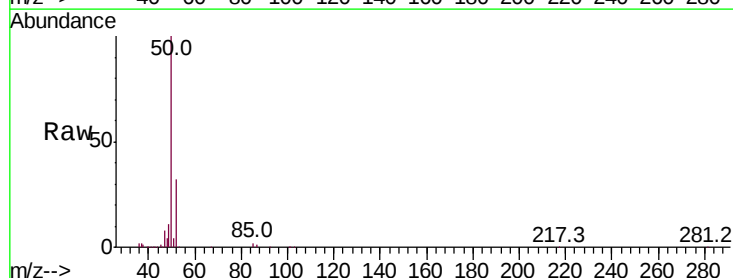
#3
 Chlorodifluoromethane
 Concen: 9.878 ppbv
 RT: 2.98
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 VL1119ABS01
 Acq: 19 Nov 2021 12:23

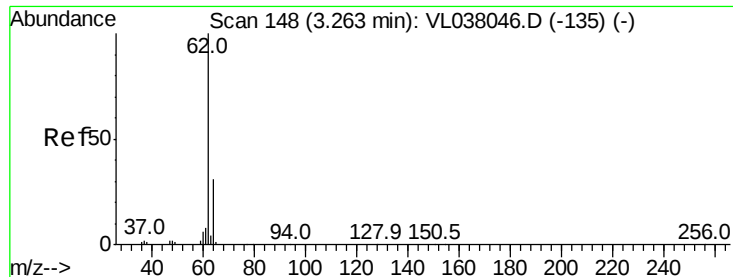
Tot Ion: 51 Resp: 1640596
 Ion Ratio Lower Upper
 51 100
 67 17.5 13.8 20.8



#4
 Chloromethane
 Concen: 10.043 ppbv
 RT: 3.13 min Scan# 108
 Delta R.T. -0.01 min
 Lab File: VL038081.D
 Acq: 19 Nov 2021 12:23

Tgt Ion: 50 Resp: 567813
 Ion Ratio Lower Upper
 50 100
 52 31.9 25.4 38.0





#5

Vinyl Chloride

Concen: 10.203 ppbv

RT: 3.25 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

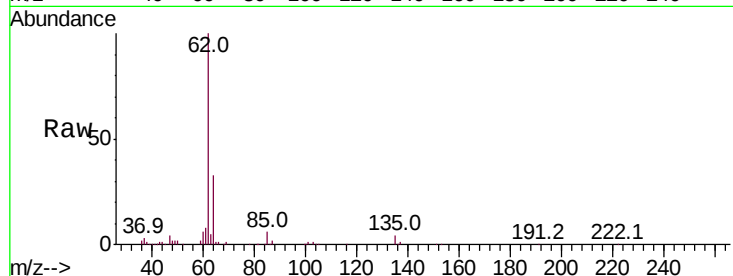
Acq: 19 Nov 2021 12:23

Tot Ion: 62 Resp: 565915

Ion Ratio Lower Upper

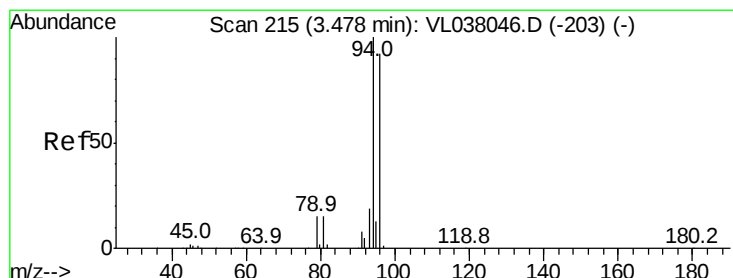
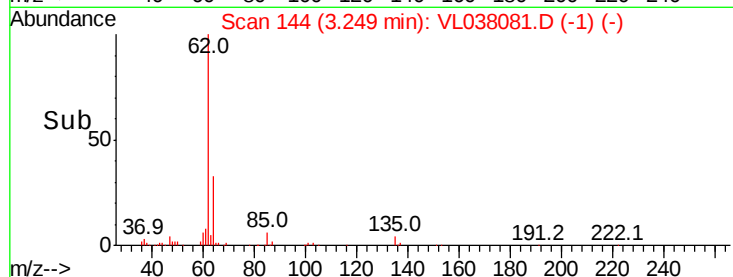
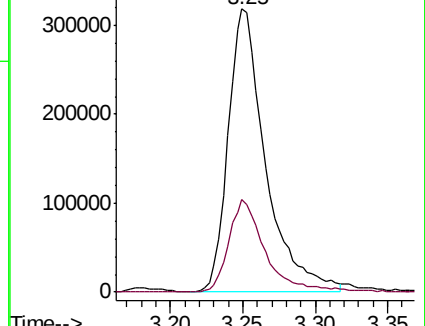
62 100

64 32.8 25.1 37.7



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.214 ppbv

RT: 3.46 min Scan# 211

Delta R.T. -0.01 min

Lab File: VL038081.D

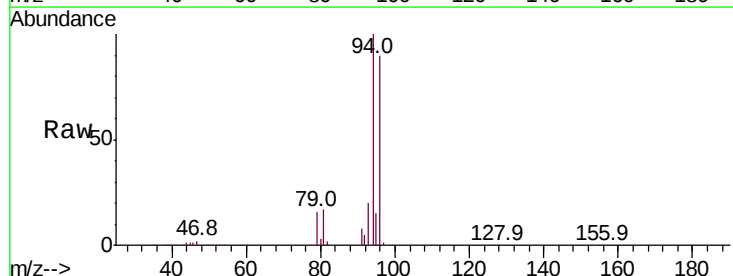
Acq: 19 Nov 2021 12:23

Tgt Ion: 94 Resp: 303468

Ion Ratio Lower Upper

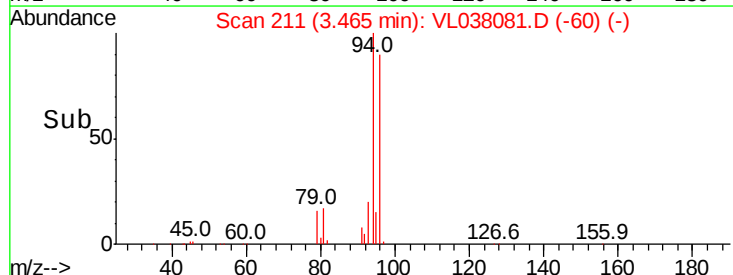
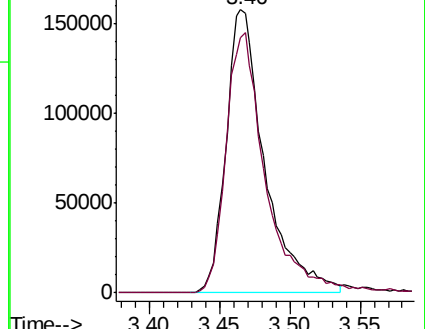
94 100

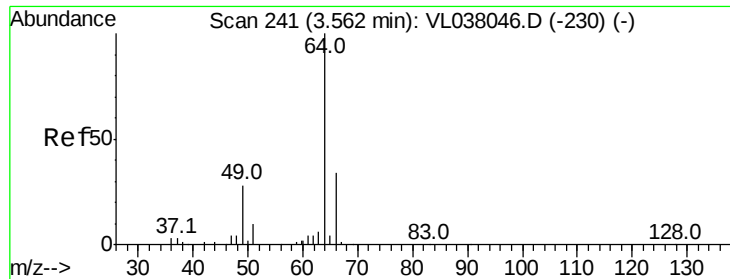
96 90.3 73.9 110.9



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.530 ppbv

RT: 3.55 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: VL1119ABS01

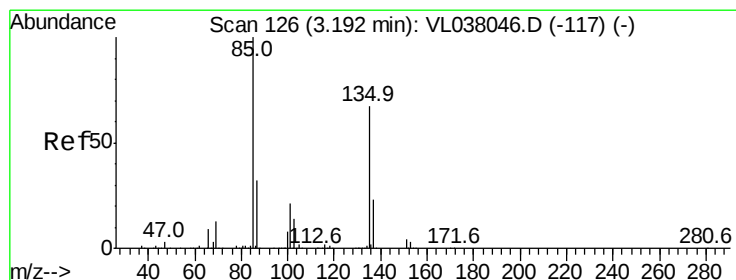
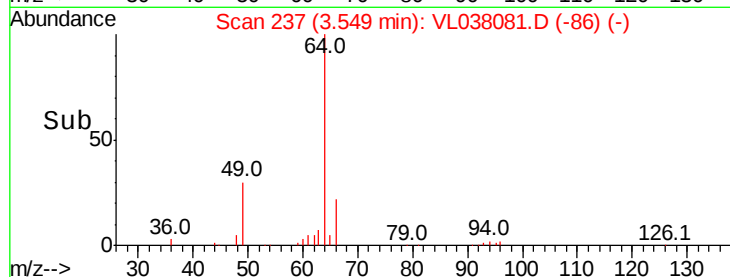
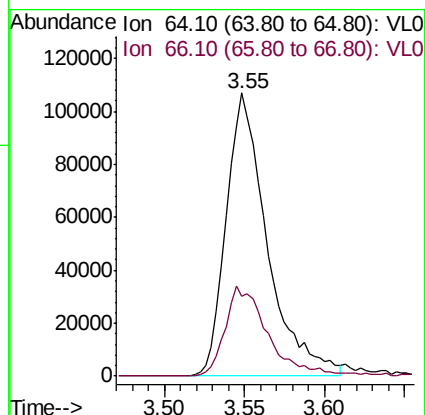
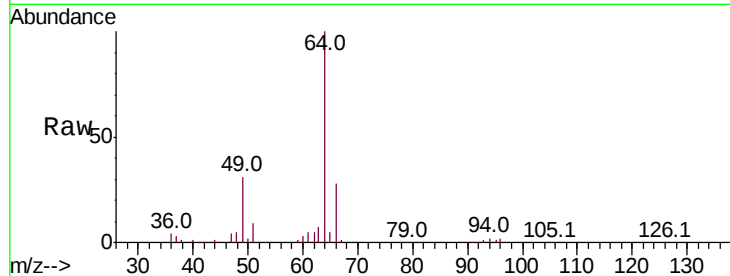
Acq: 19 Nov 2021 12:23

Tot Ion: 64 Resp: 187583

Ion Ratio Lower Upper

64 100

66 28.2 27.2 40.8



#8

Dichlorotetrafluoroethane

Concen: 10.049 ppbv

RT: 3.18 min Scan# 123

Delta R.T. -0.01 min

Lab File: VL038081.D

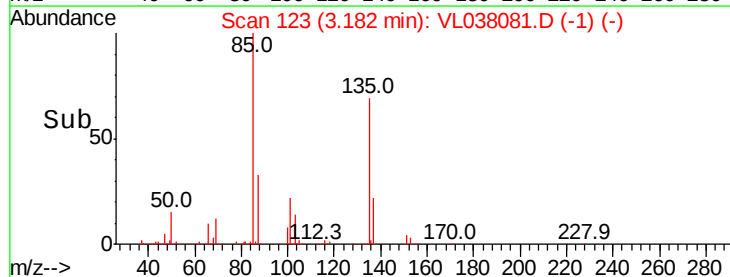
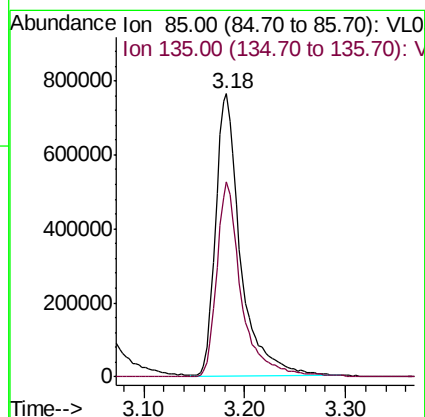
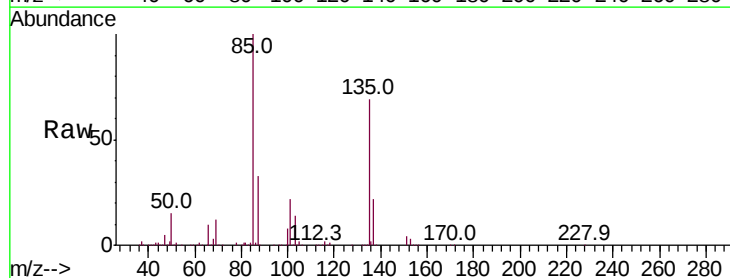
Acq: 19 Nov 2021 12:23

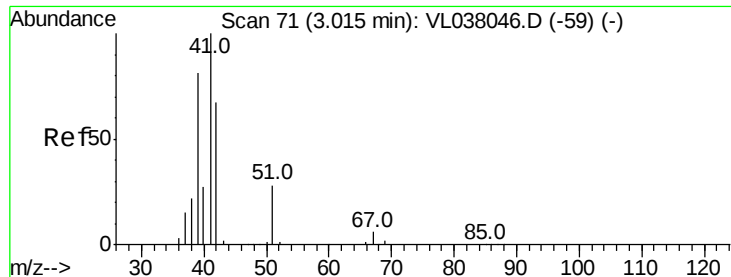
Tgt Ion: 85 Resp: 1305886

Ion Ratio Lower Upper

85 100

135 69.5 57.9 86.9





#9

Propene

Concen: 9.656 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

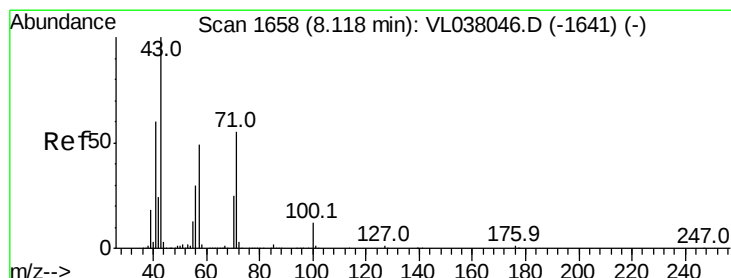
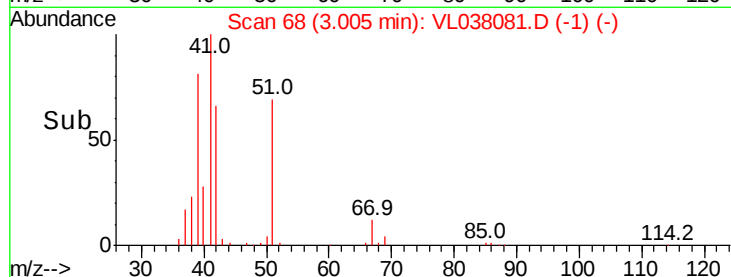
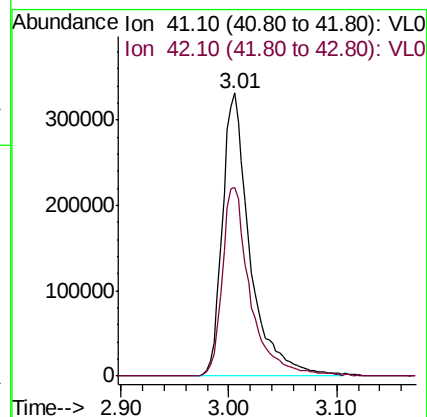
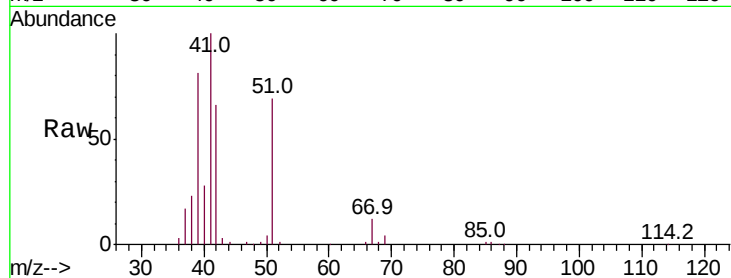
Acq: 19 Nov 2021 12:23

Tot Ion: 41 Resp: 590606

Ion Ratio Lower Upper

41 100

42 68.1 53.8 80.8



#10

Heptane

Concen: 9.589 ppbv

RT: 8.10 min Scan# 1653

Delta R.T. -0.02 min

Lab File: VL038081.D

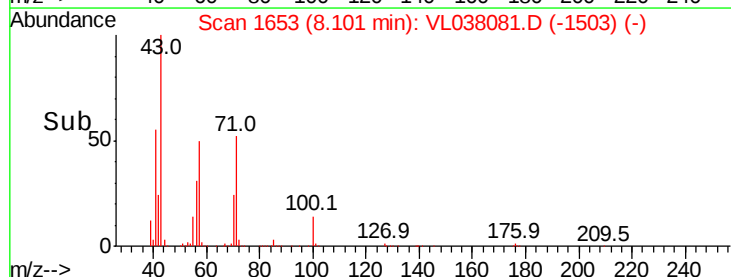
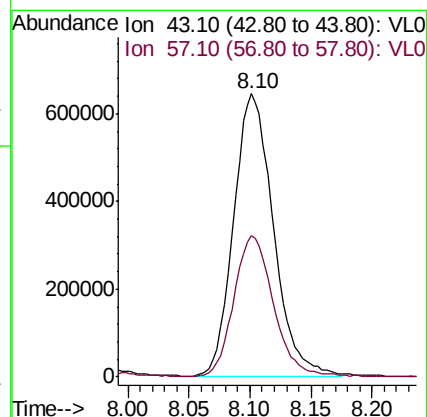
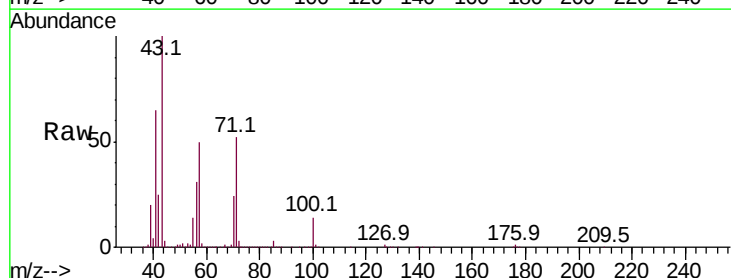
Acq: 19 Nov 2021 12:23

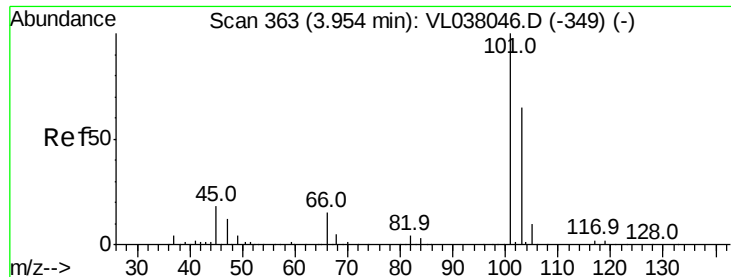
Tgt Ion: 43 Resp: 1449544

Ion Ratio Lower Upper

43 100

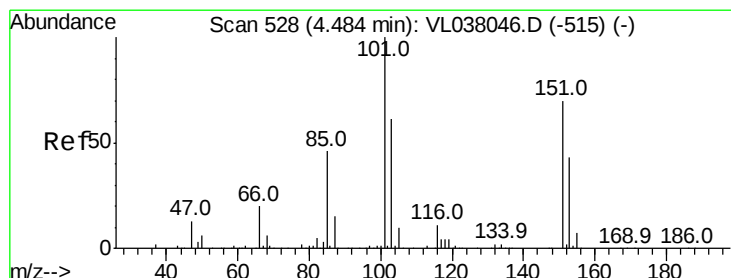
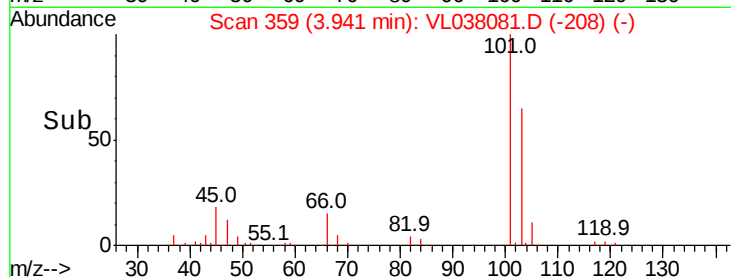
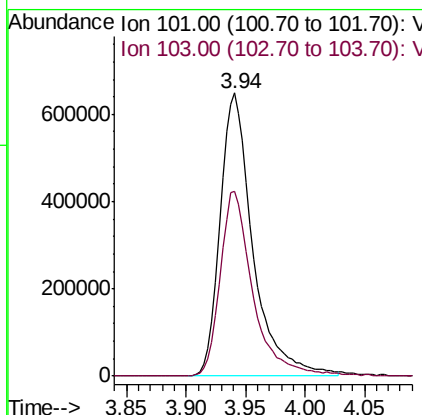
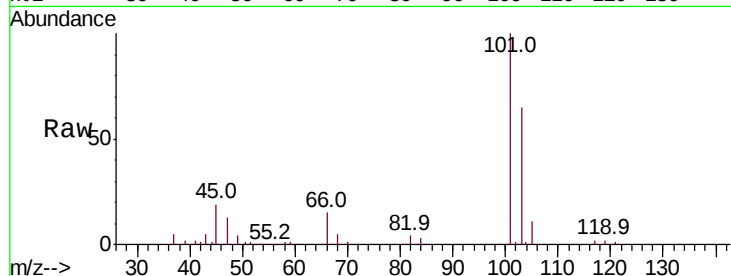
57 50.6 40.4 60.6





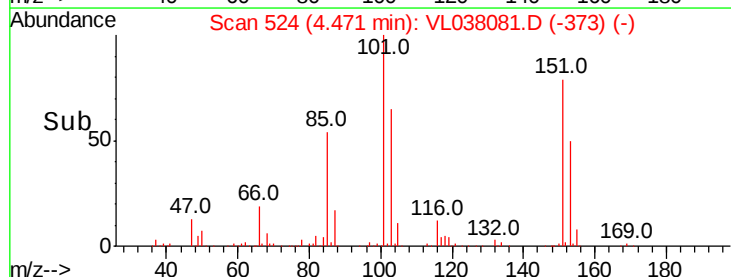
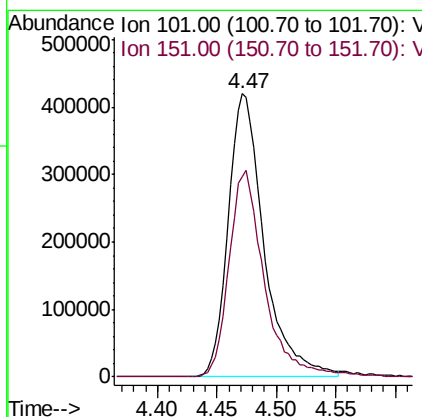
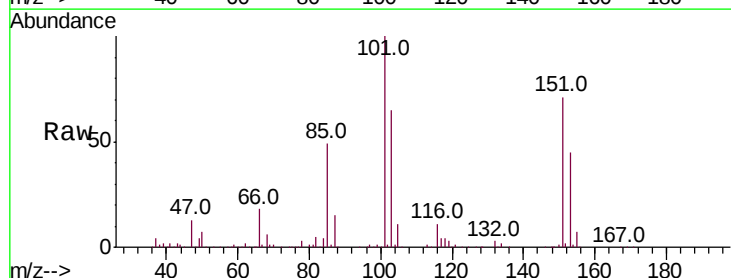
#11
 Trichlorofluoromethane
 Concen: 10.012 ppbv
 RT: 3.94
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId : VL1119ABS01
 Acq: 19 Nov 2021 12:23

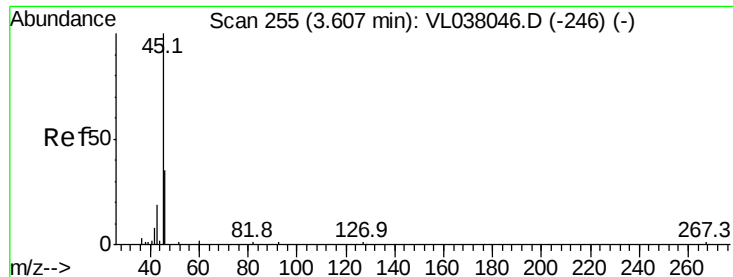
Tot Ion:101 Resp: 1243858
 Ion Ratio Lower Upper
 101 100
 103 65.2 51.8 77.6



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.958 ppbv
 RT: 4.47 min Scan# 524
 Delta R.T. -0.01 min
 Lab File: VL038081.D
 Acq: 19 Nov 2021 12:23

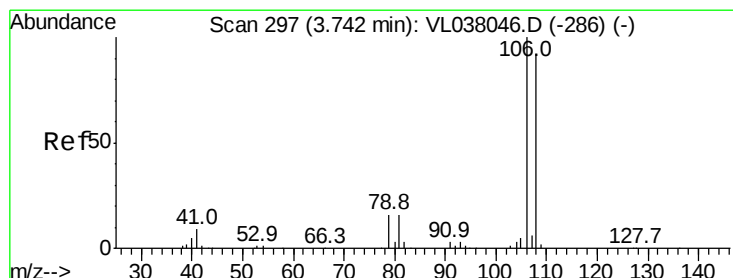
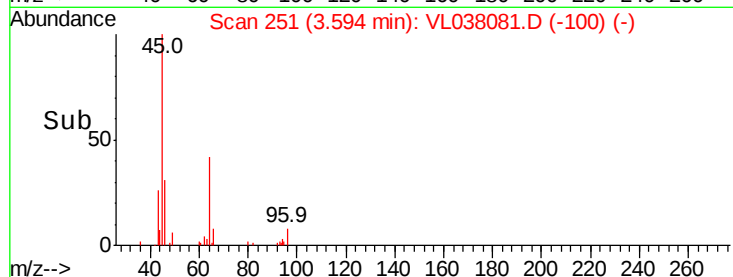
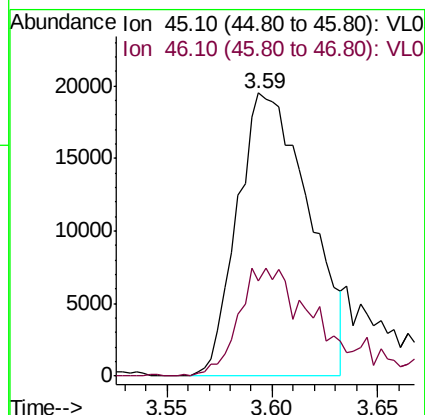
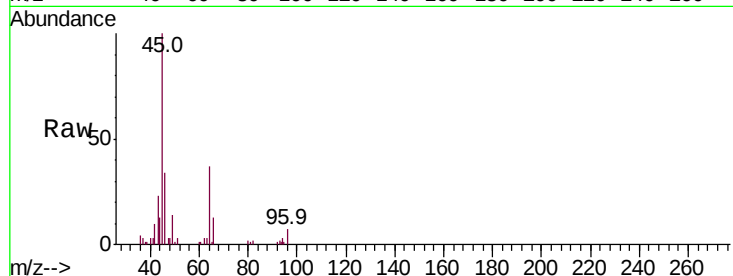
Tgt Ion:101 Resp: 875143
 Ion Ratio Lower Upper
 101 100
 151 72.5 59.0 88.4





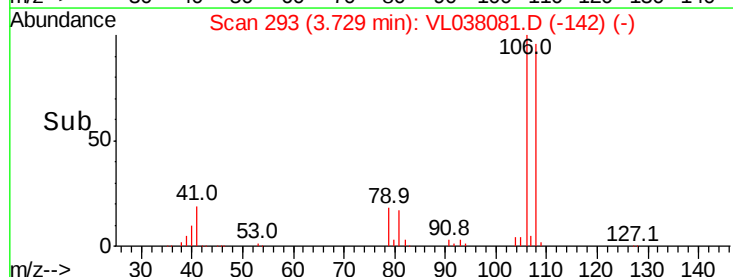
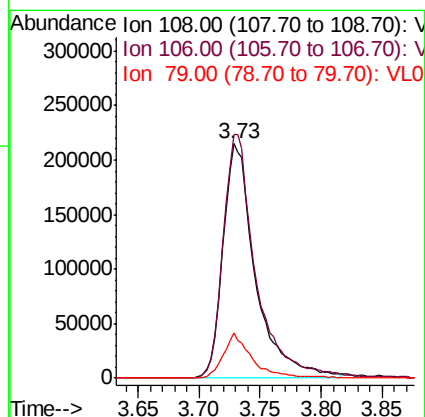
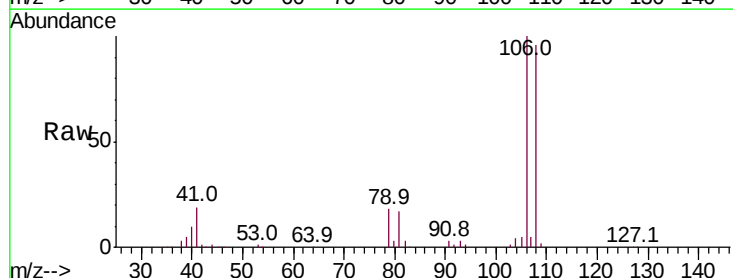
#13
Ethanol
Concen: 7.747 ppbv
RT: 3.59
Delta R.T.: MSVOA_1
Lab File: ClientSampleId :
Acq: 19 Nov 2021 12:23

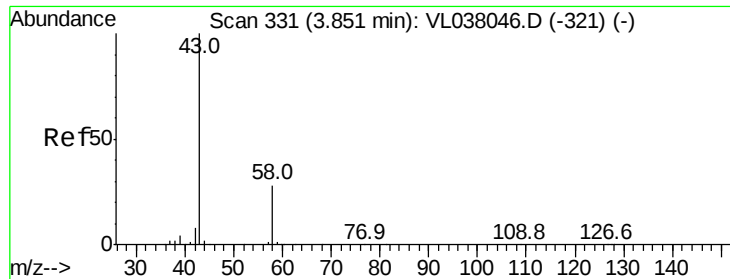
Tot Ion: 45 Resp: 45789
Ion Ratio Lower Upper
45 100
46 47.2 17.6 70.2



#14
Bromoethene
Concen: 10.251 ppbv
RT: 3.73 min Scan# 293
Delta R.T.: -0.01 min
Lab File: VL038081.D
Acq: 19 Nov 2021 12:23

Tgt Ion: 108 Resp: 403420
Ion Ratio Lower Upper
108 100
106 105.3 89.4 134.0
79 17.5 14.1 21.1





#15

Acetone

Concen: 9.339 ppbv

RT: 3.84

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

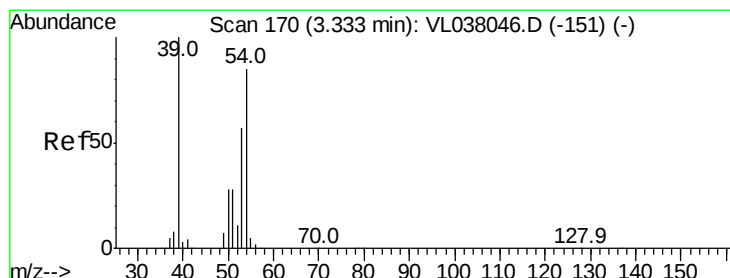
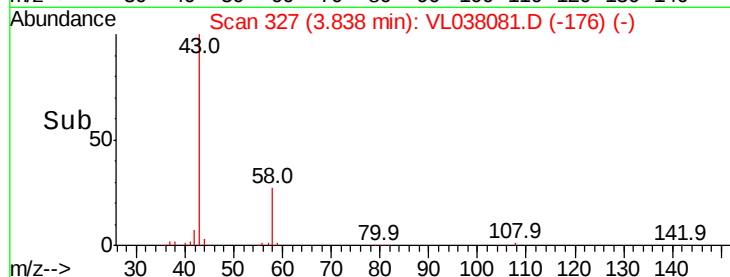
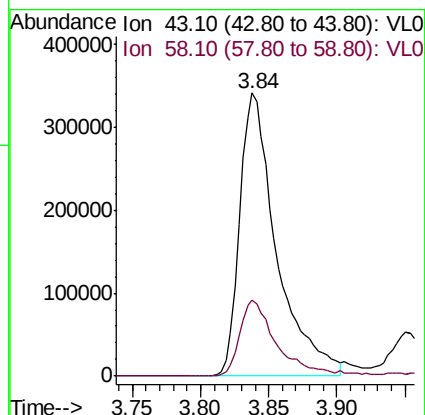
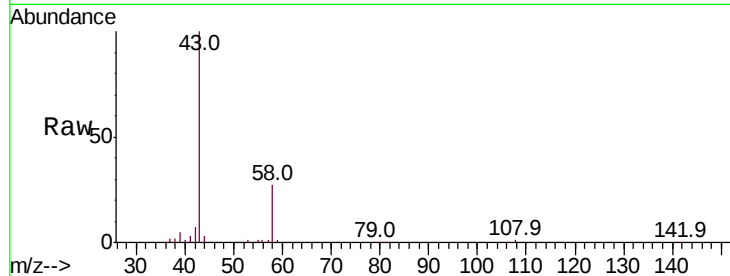
Acq: 19 Nov 2021 12:23

Tot Ion: 43 Resp: 640322

Ion Ratio Lower Upper

43 100

58 27.5 22.4 33.6



#16

1,3-Butadiene

Concen: 10.073 ppbv

RT: 3.32 min Scan# 166

Delta R.T. -0.01 min

Lab File: VL038081.D

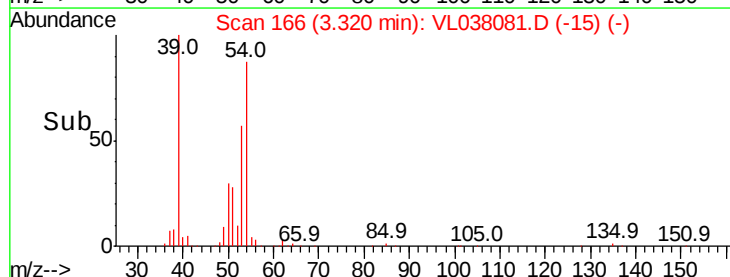
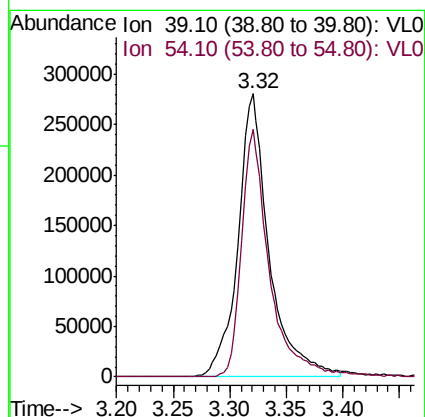
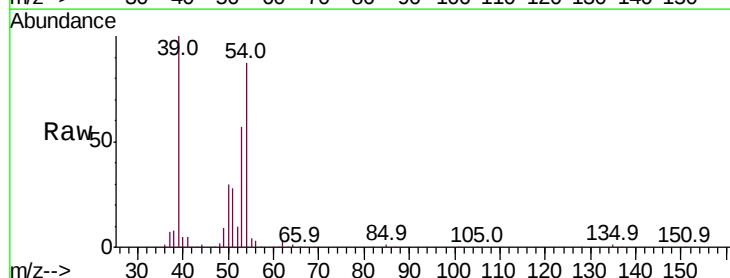
Acq: 19 Nov 2021 12:23

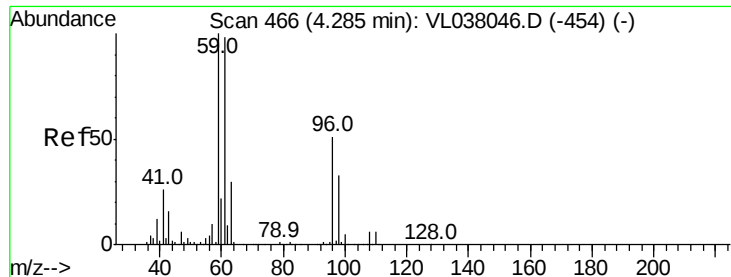
Tgt Ion: 39 Resp: 538844

Ion Ratio Lower Upper

39 100

54 78.6 64.4 96.6





#17

tert-Butyl alcohol

Concen: 9.296 ppbv

RT: 4.27 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId: VL1119ABS01

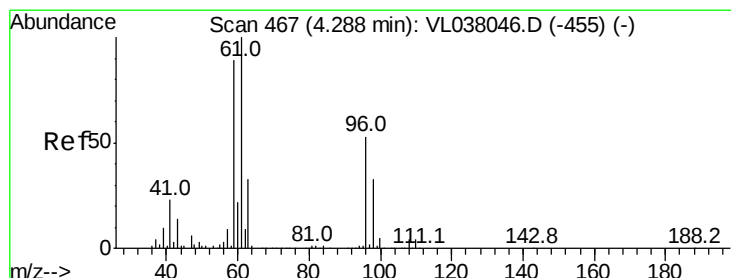
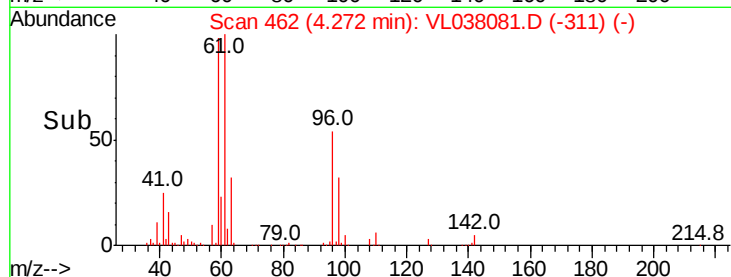
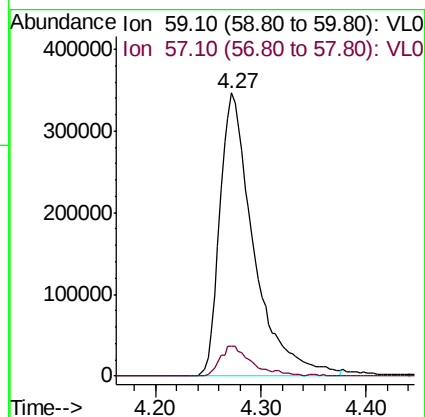
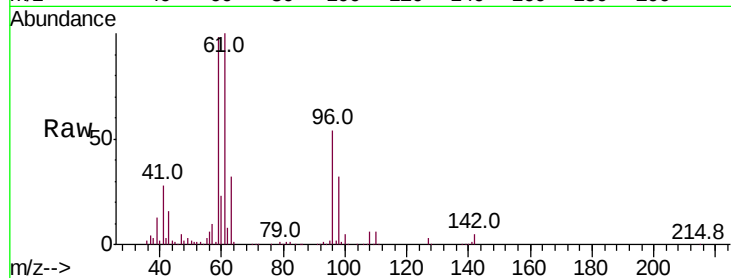
Acq: 19 Nov 2021 12:23

Tot Ion: 59 Resp: 773182

Ion Ratio Lower Upper

59 100

57 10.4 8.6 13.0



#18

1,1-Dichloroethene

Concen: 9.973 ppbv

RT: 4.28 min Scan# 464

Delta R.T. -0.01 min

Lab File: VL038081.D

Acq: 19 Nov 2021 12:23

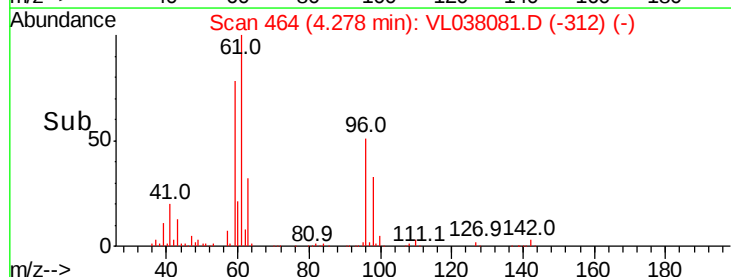
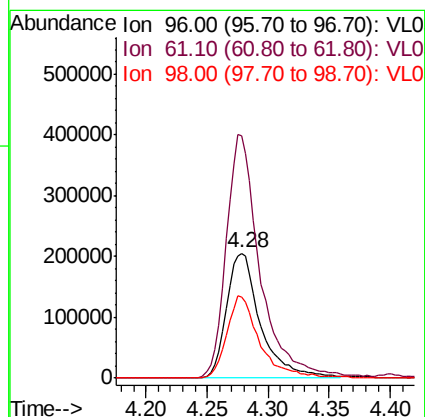
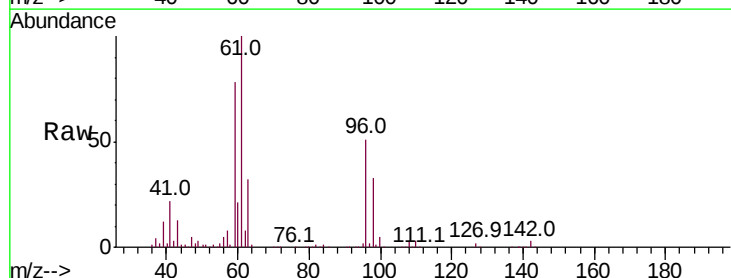
Tgt Ion: 96 Resp: 402056

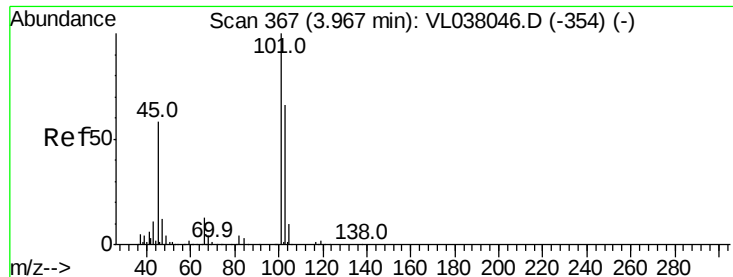
Ion Ratio Lower Upper

96 100

61 194.3 149.8 224.8

98 64.4 50.2 75.2





#19

Isopropyl Alcohol

Concen: 9.082 ppbv

RT: 3.95 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

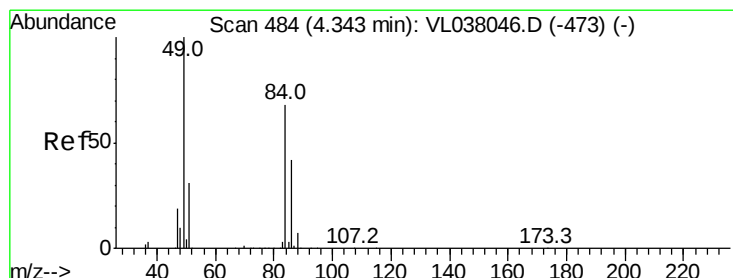
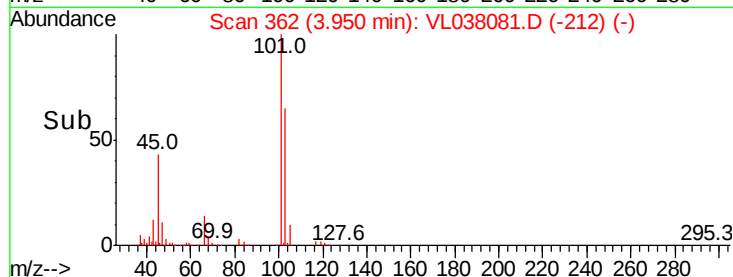
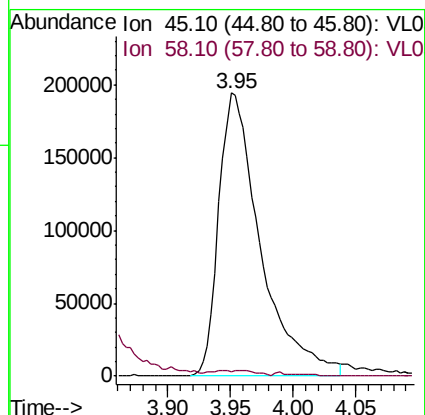
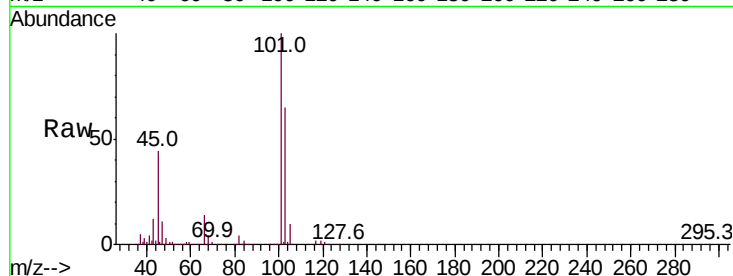
Acq: 19 Nov 2021 12:23

Tot Ion: 45 Resp: 449968

Ion Ratio Lower Upper

45 100

58 3.0 1.4 2.0#



#20

Methylene Chloride

Concen: 8.849 ppbv

RT: 4.33 min Scan# 481

Delta R.T. -0.01 min

Lab File: VL038081.D

Acq: 19 Nov 2021 12:23

Tgt Ion: 84 Resp: 339840

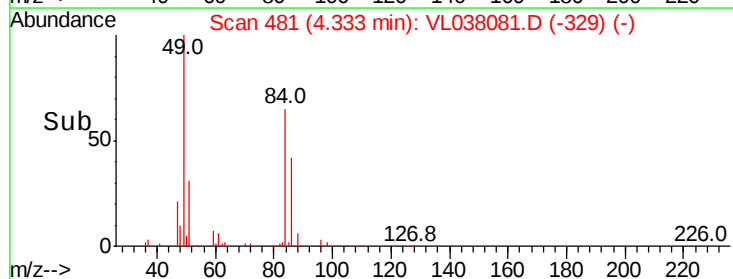
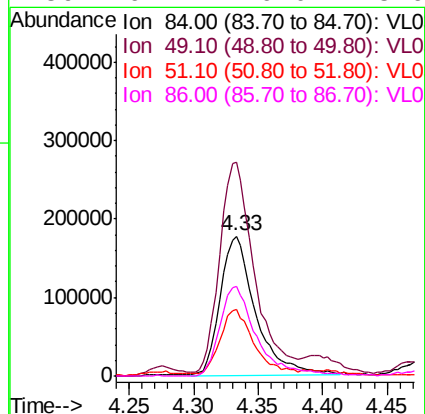
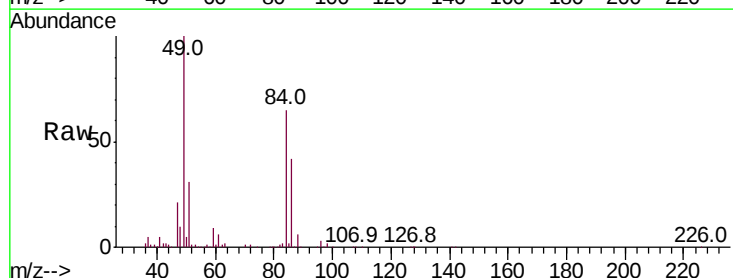
Ion Ratio Lower Upper

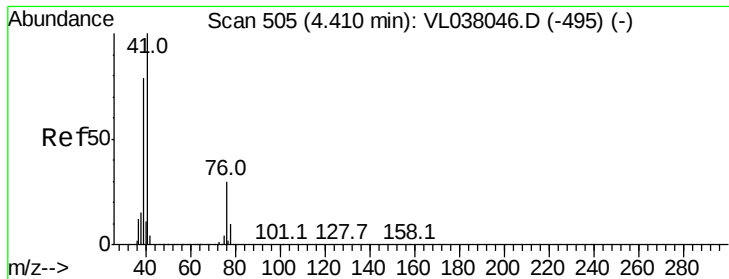
84 100

49 151.0 118.2 177.2

51 46.6 36.8 55.2

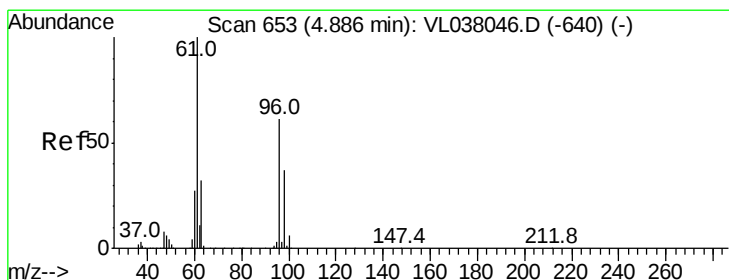
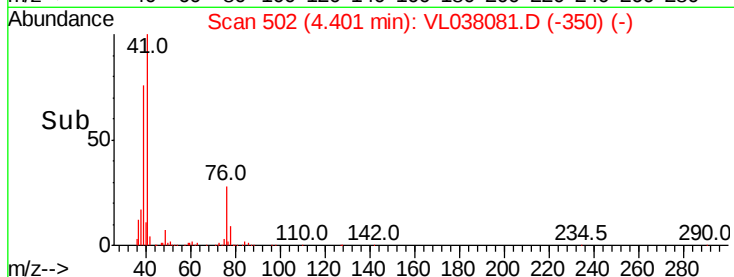
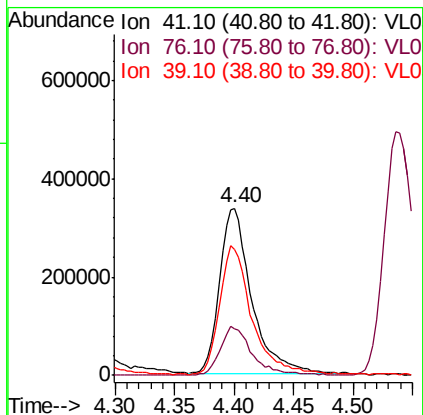
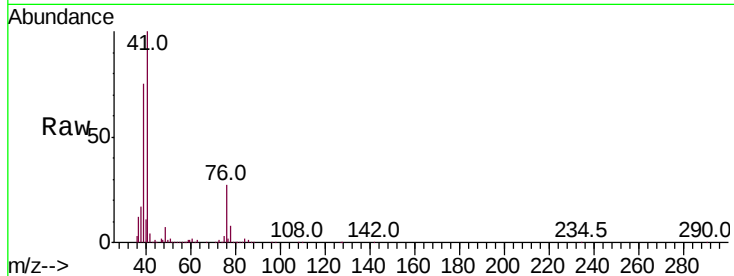
86 64.7 49.0 73.6





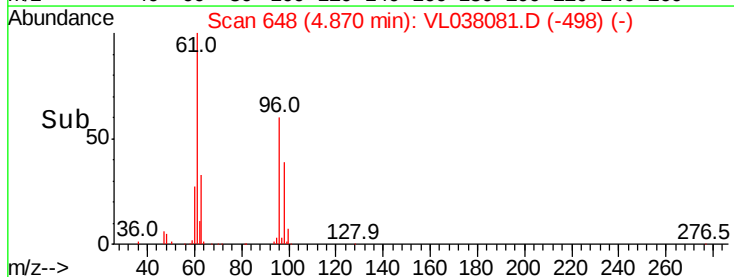
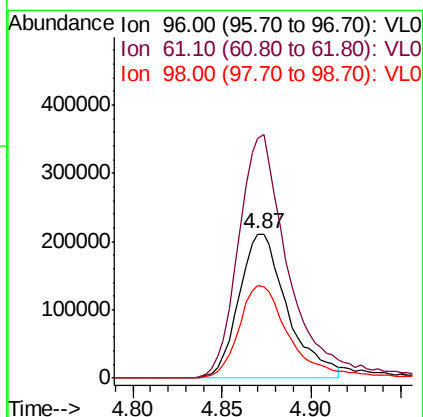
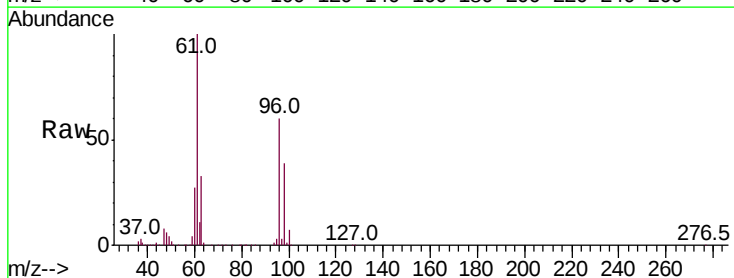
#21
Allvl Chloride
Concen: 9.925 ppbv
RT: 4.40
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
VL1119ABS01
Acq: 19 Nov 2021 12:23

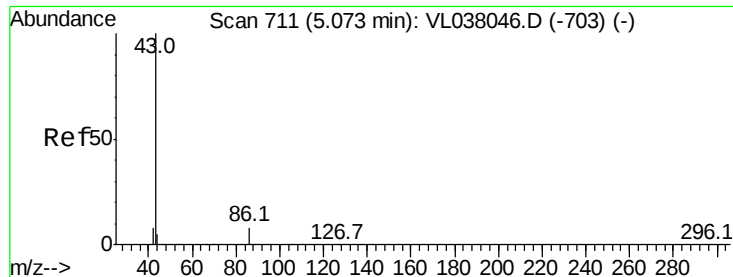
Tot Ion: 41 Resp: 629939
Ion Ratio Lower Upper
41 100
76 29.6 24.6 36.8
39 78.1 63.4 95.0



#22
trans-1,2-Dichloroethene
Concen: 9.791 ppbv
RT: 4.87 min Scan# 648
Delta R.T. -0.02 min
Lab File: VL038081.D
Acq: 19 Nov 2021 12:23

Tgt Ion: 96 Resp: 399809
Ion Ratio Lower Upper
96 100
61 166.4 131.6 197.4
98 64.5 48.4 72.6





#23

Vinyl Acetate

Concen: 9.868 ppbv

RT: 5.06

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

VL1119ABS01

Acq: 19 Nov 2021 12:23

Tot Ion: 43 Resp: 979494

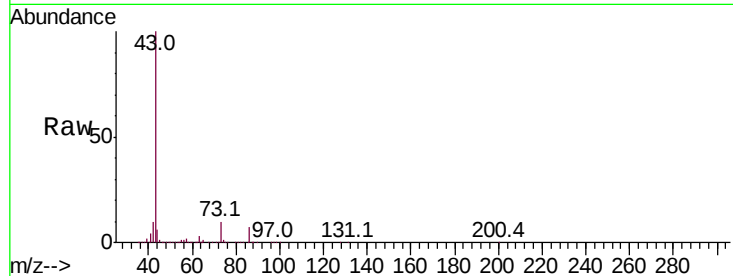
Ion Ratio Lower Upper

43 100

86 6.6 5.3 7.9

42 9.9 7.0 10.6

44 5.4 4.0 6.0

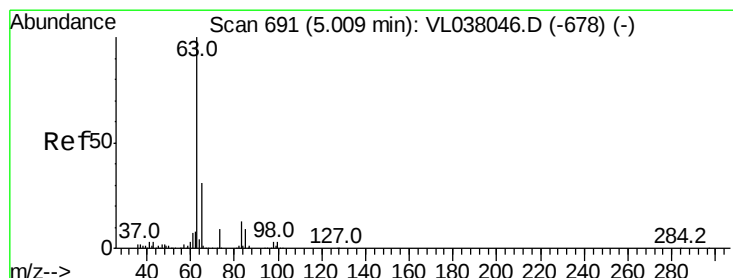
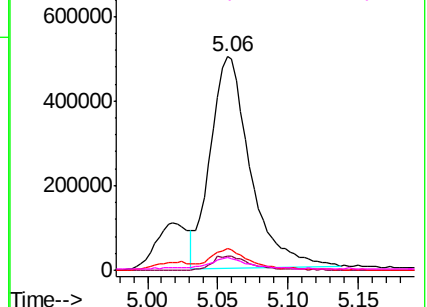
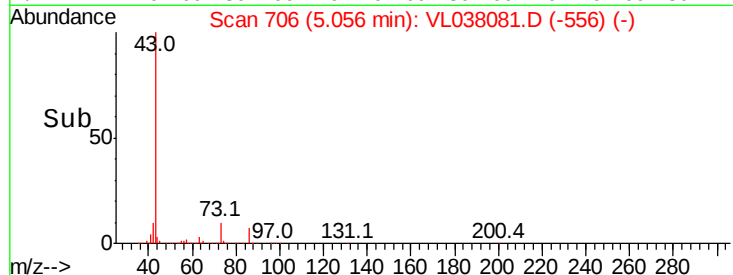


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 10.010 ppbv

RT: 5.00 min Scan# 688

Delta R.T. -0.01 min

Lab File: VL038081.D

Acq: 19 Nov 2021 12:23

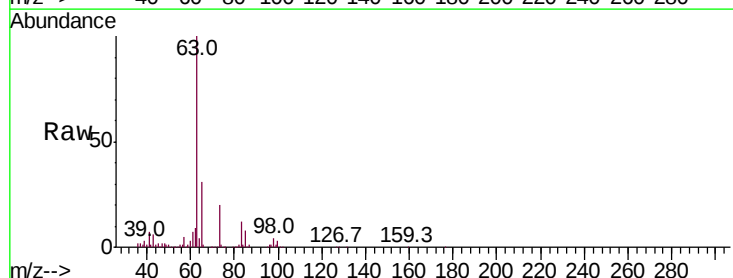
Tgt Ion: 63 Resp: 827402

Ion Ratio Lower Upper

63 100

98 3.9 1.8 5.4

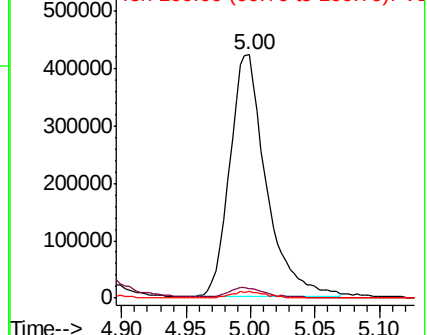
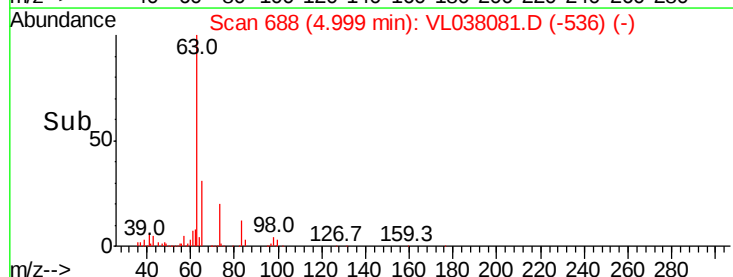
100 2.6 1.4 4.0

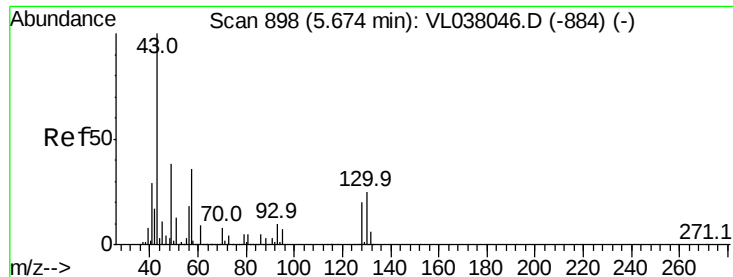


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

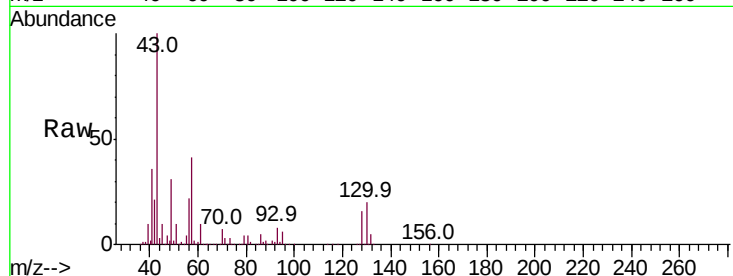
Ion 100.00 (99.70 to 100.70): VL0



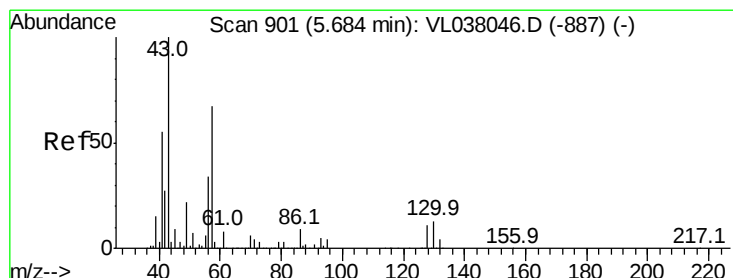
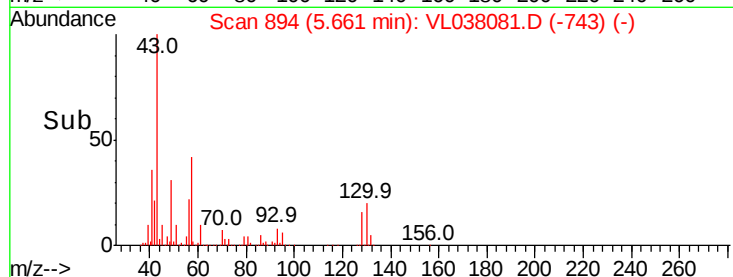
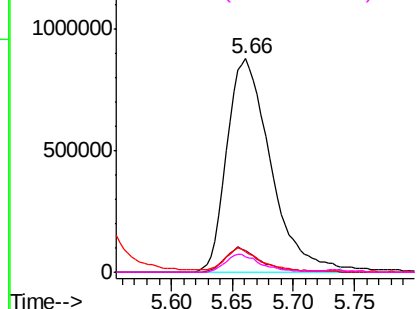


#25
Ethyl Acetate
Concen: 9.591 ppbv
RT: 5.66
Delta R.T. MSVOA_L
Lab File: ClientSampleId : VL1119ABS01
Acq: 19 Nov 2021 12:23

Tot Ion:	43	Resp:	2185732
Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.9	11.9
61	10.1	7.8	11.6
70	7.0	5.8	8.8

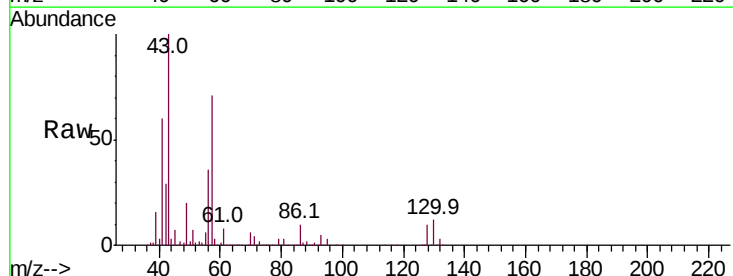


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

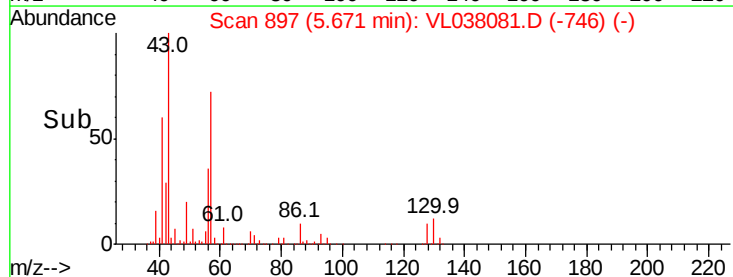
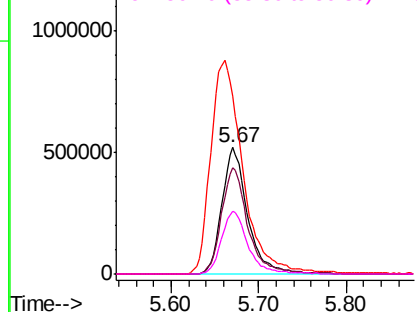


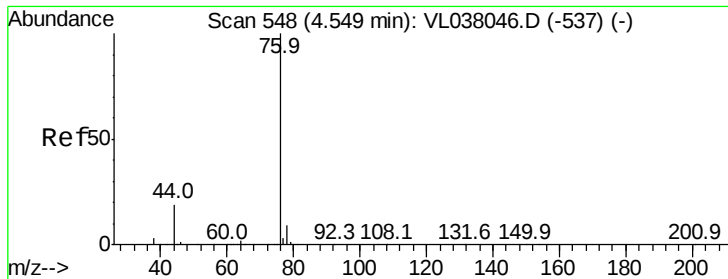
#26
Hexane
Concen: 9.670 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.01 min
Lab File: VL038081.D
Acq: 19 Nov 2021 12:23

Tgt Ion:	57	Resp:	1062174
Ion	Ratio	Lower	Upper
57	100		
41	86.4	71.4	107.2
43	210.3	174.6	261.8
56	51.4	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





#27

Carbon Disulfide

Concen: 10.135 ppbv

RT: 4.54 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: VL1119ABS01

Acq: 19 Nov 2021 12:23

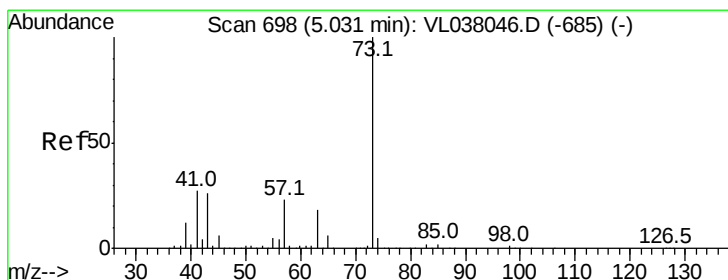
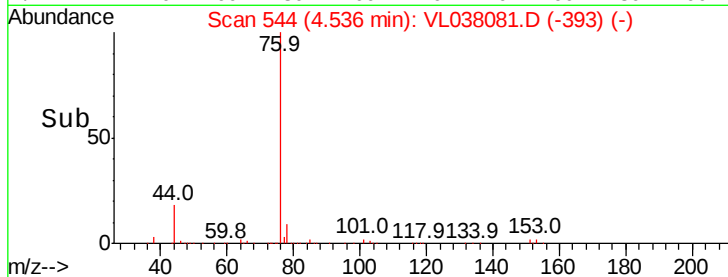
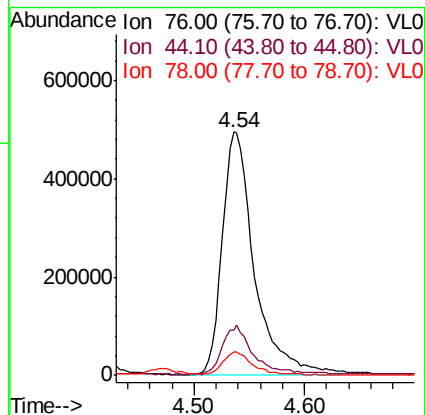
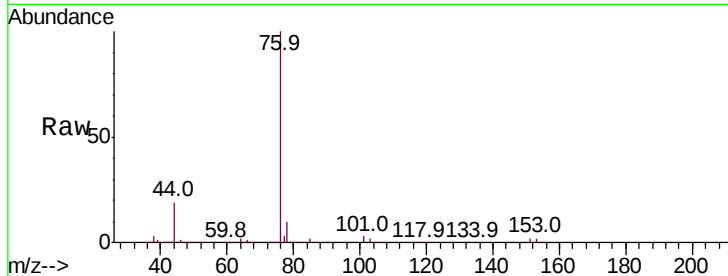
Tot Ion: 76 Resp: 997212

Ion Ratio Lower Upper

76 100

44 20.1 14.9 22.3

78 9.6 7.6 11.4



#28

Methyl tert-Butyl Ether

Concen: 9.770 ppbv

RT: 5.02 min Scan# 694

Delta R.T. -0.01 min

Lab File: VL038081.D

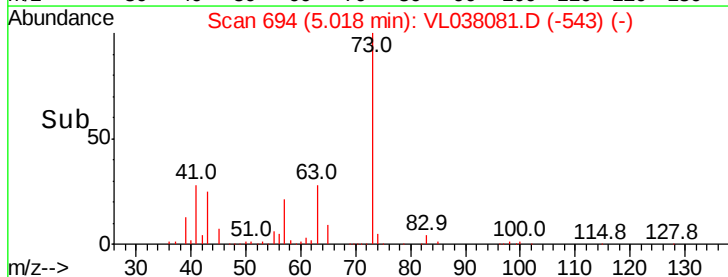
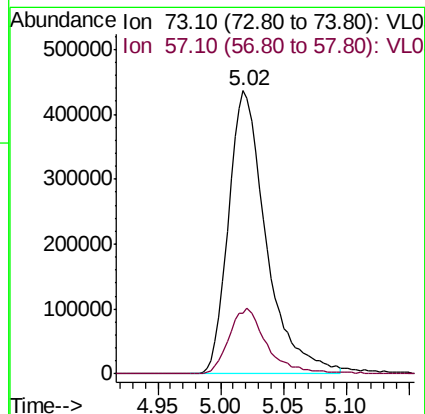
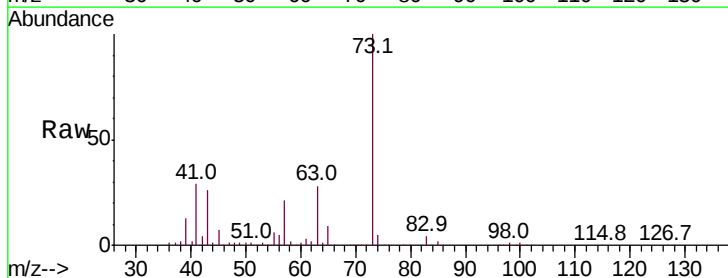
Acq: 19 Nov 2021 12:23

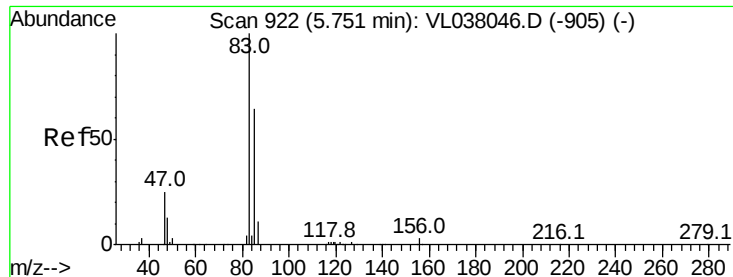
Tgt Ion: 73 Resp: 911591

Ion Ratio Lower Upper

73 100

57 23.6 19.0 28.4





#29

Chloroform

Concen: 9.925 ppbv

RT: 5.73 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

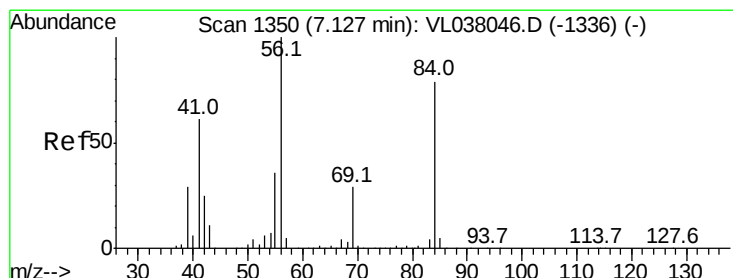
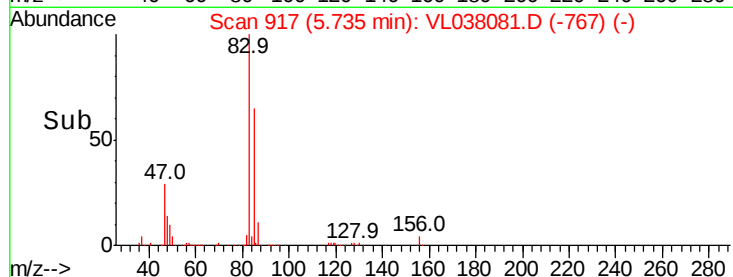
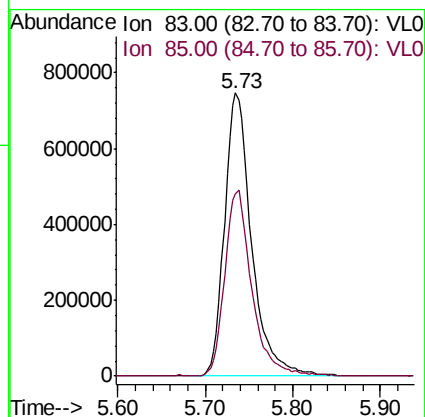
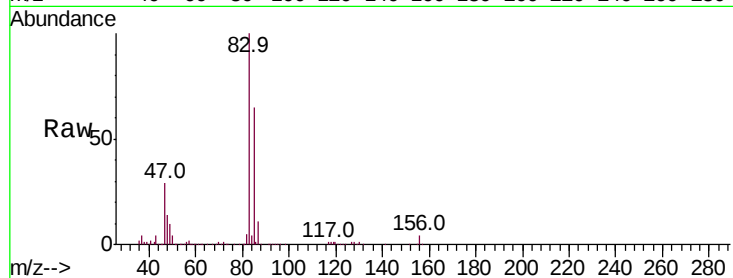
Acq: 19 Nov 2021 12:23 VL1119ABS01

Tot Ion: 83 Resp: 1606746

Ion Ratio Lower Upper

83 100

85 64.4 51.0 76.6



#30

Cyclohexane

Concen: 9.381 ppbv

RT: 7.11 min Scan# 1344

Delta R.T. -0.02 min

Lab File: VL038081.D

Acq: 19 Nov 2021 12:23

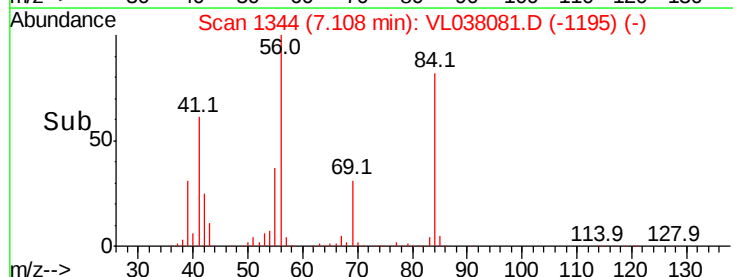
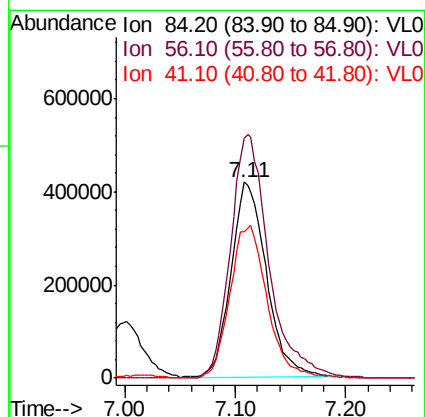
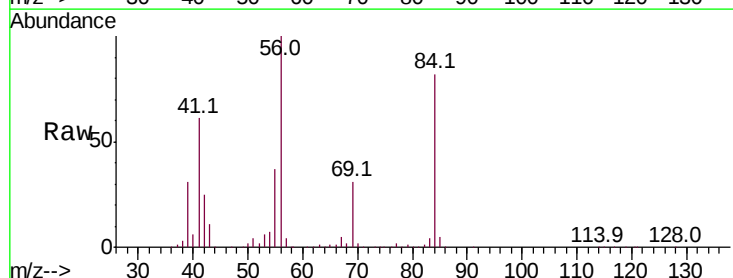
Tgt Ion: 84 Resp: 935487

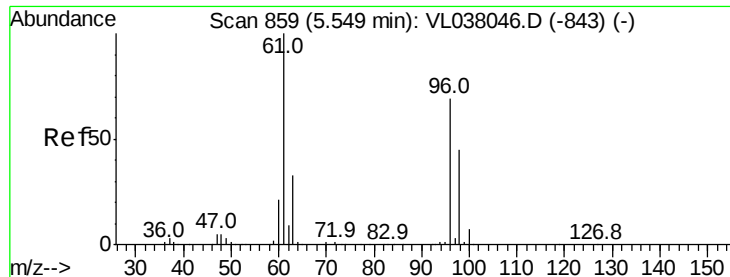
Ion Ratio Lower Upper

84 100

56 135.6 108.1 162.1

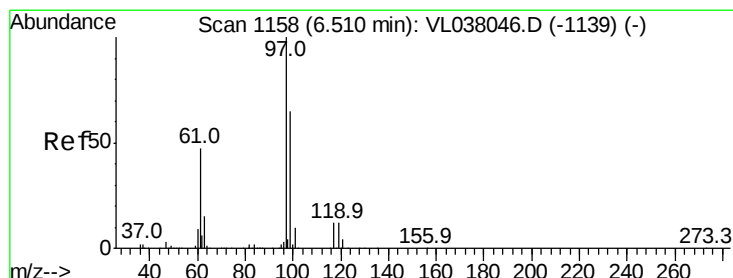
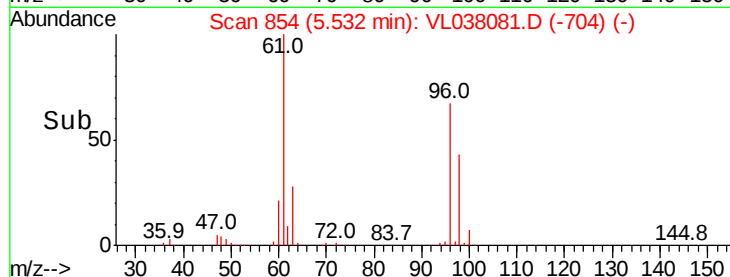
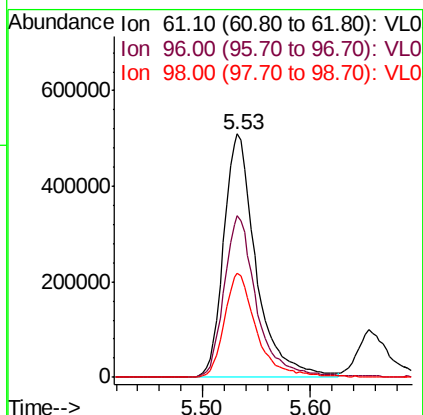
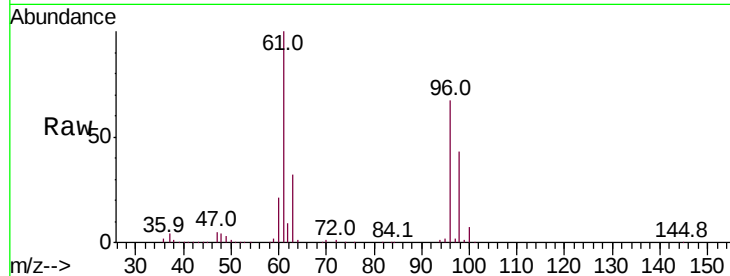
41 81.9 64.4 96.6





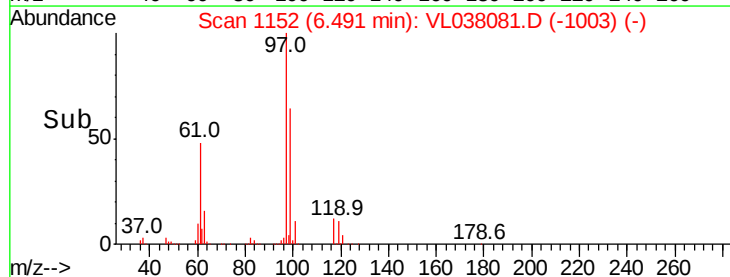
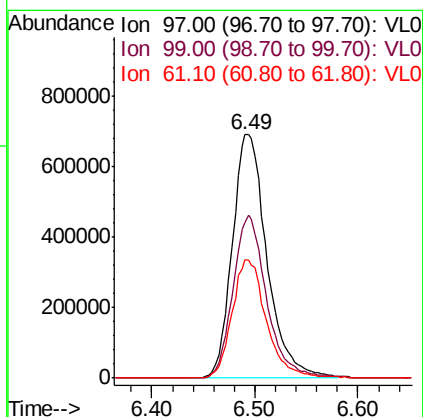
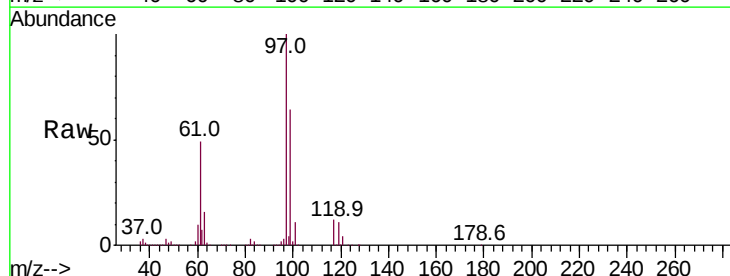
#31
 cis-1,2-Dichloroethene
 Concen: 10.131 ppbv
 RT: 5.53
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId :
 VL1119ABS01
 Acq: 19 Nov 2021 12:23

Tot Ion: 61 Resp: 1058514
 Ion Ratio Lower Upper
 61 100
 96 66.6 55.4 83.2
 98 42.6 35.7 53.5



#32
 1,1,1-Trichloroethane
 Concen: 9.855 ppbv
 RT: 6.49 min Scan# 1152
 Delta R.T. -0.02 min
 Lab File: VL038081.D
 Acq: 19 Nov 2021 12:23

Tgt Ion: 97 Resp: 1619145
 Ion Ratio Lower Upper
 97 100
 99 65.1 52.2 78.4
 61 48.6 37.7 56.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId: VL1119ABS01

Acq: 19 Nov 2021 12:23

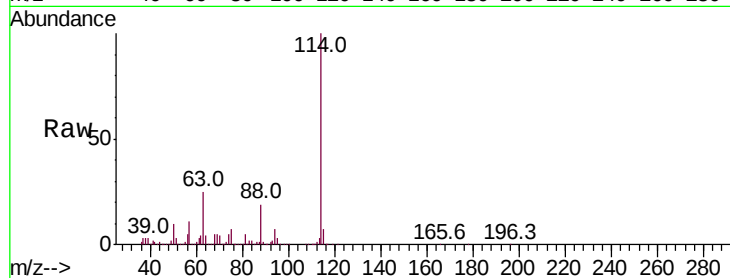
Tot Ion:114 Resp: 2304572

Ion Ratio Lower Upper

114 100

63 25.5 19.7 29.5

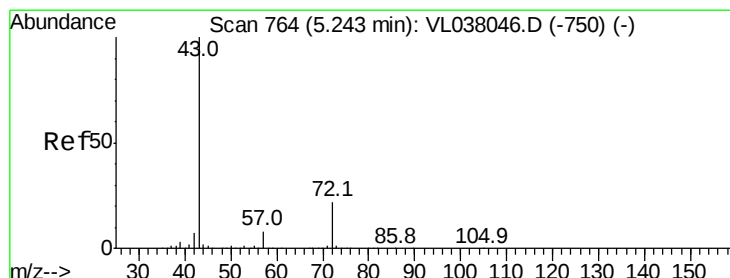
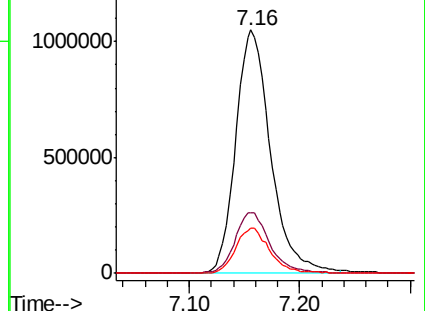
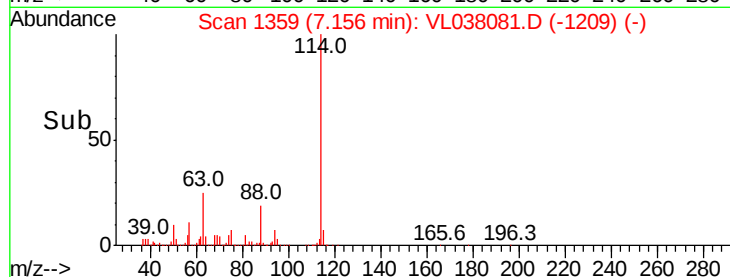
88 18.5 14.4 21.6



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



#34

2-Butanone

Concen: 10.378 ppbv

RT: 5.23 min Scan# 759

Delta R.T. -0.02 min

Lab File: VL038081.D

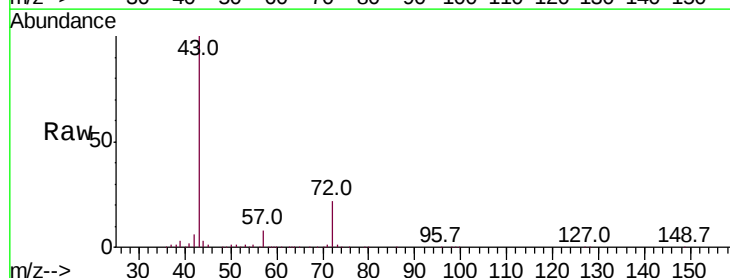
Acq: 19 Nov 2021 12:23

Tgt Ion: 43 Resp: 964419

Ion Ratio Lower Upper

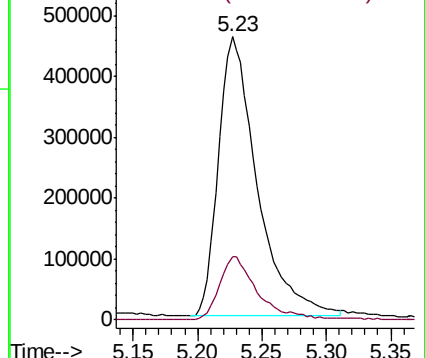
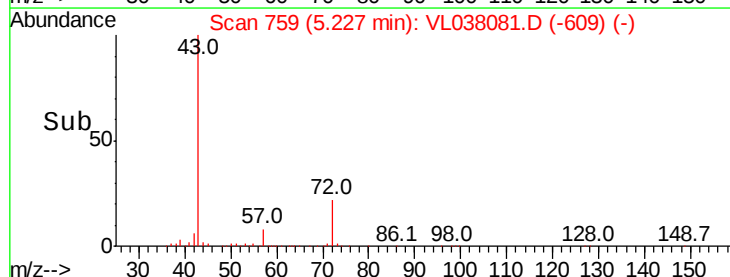
43 100

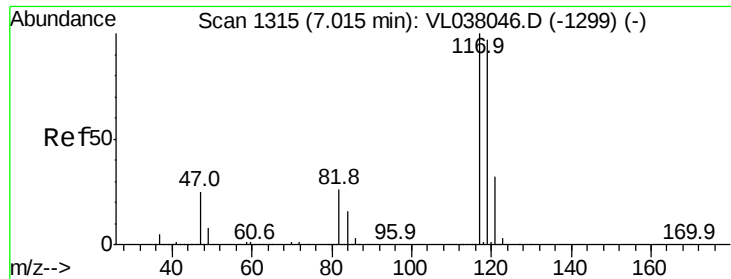
72 23.1 18.8 28.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 10.279 ppbv

RT: 7.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

VL1119ABS01

Acq: 19 Nov 2021 12:23

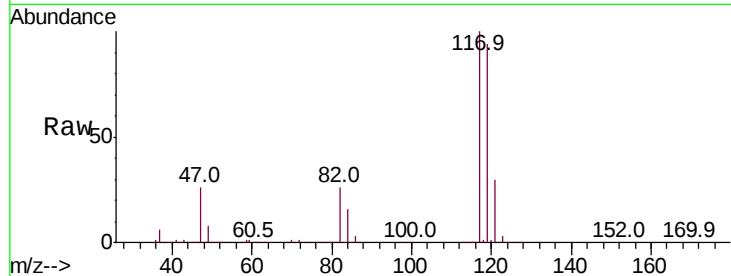
Tot Ion:117 Resp: 1664404

Ion Ratio Lower Upper

117 100

119 93.9 77.7 116.5

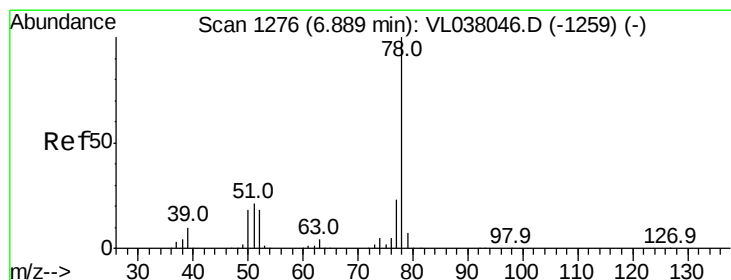
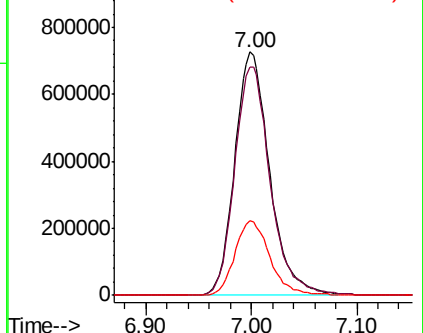
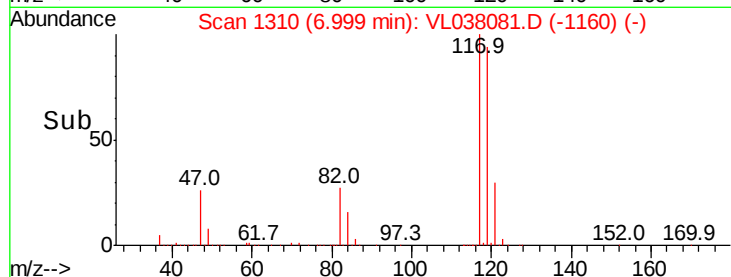
121 30.5 25.6 38.4



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



#36

Benzene

Concen: 9.927 ppbv

RT: 6.87 min Scan# 1270

Delta R.T. -0.02 min

Lab File: VL038081.D

Acq: 19 Nov 2021 12:23

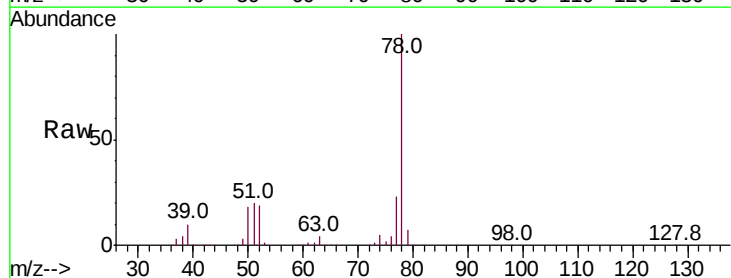
Tgt Ion: 78 Resp: 2282031

Ion Ratio Lower Upper

78 100

77 23.1 18.2 27.4

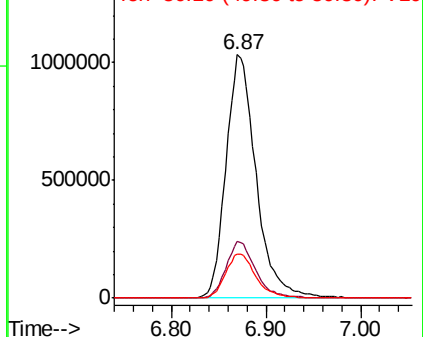
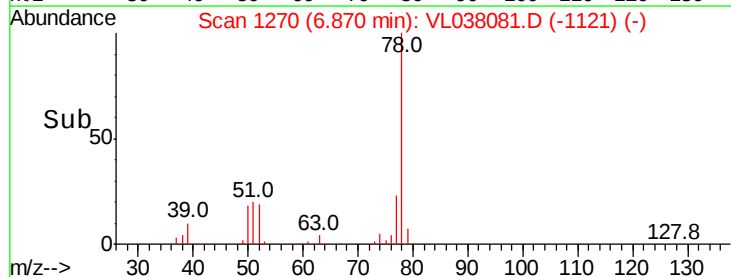
50 18.2 14.7 22.1

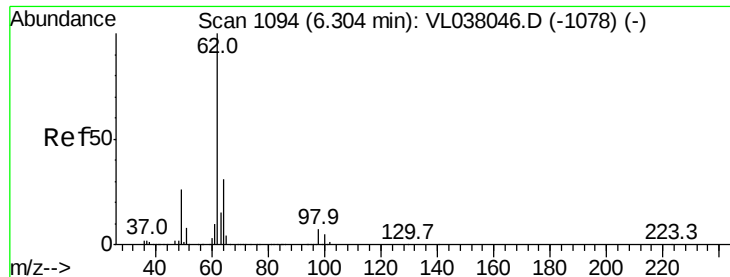


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

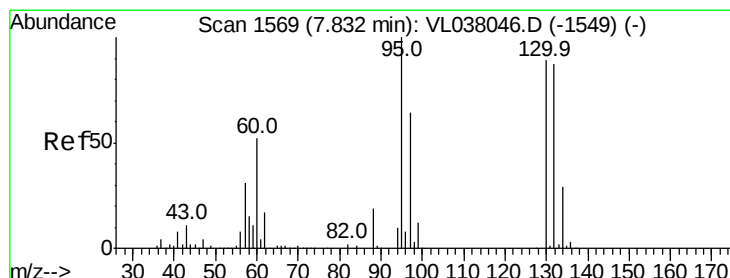
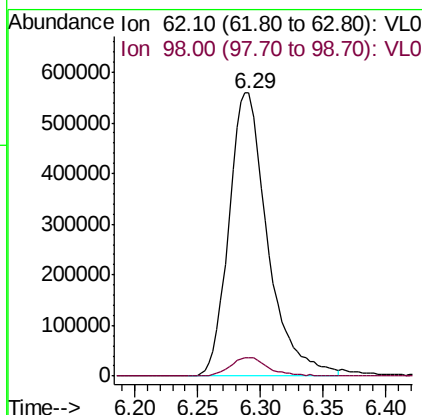
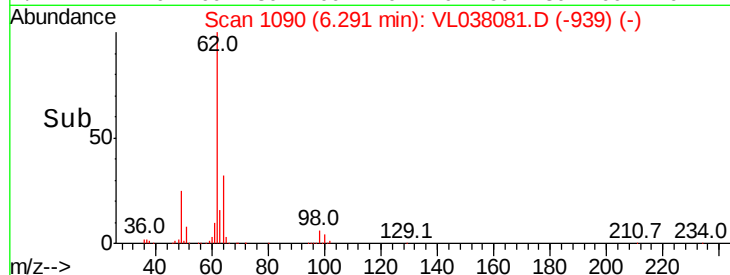
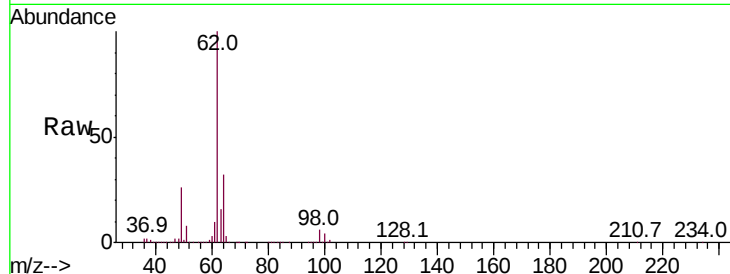
Ion 50.10 (49.80 to 50.80): VL0





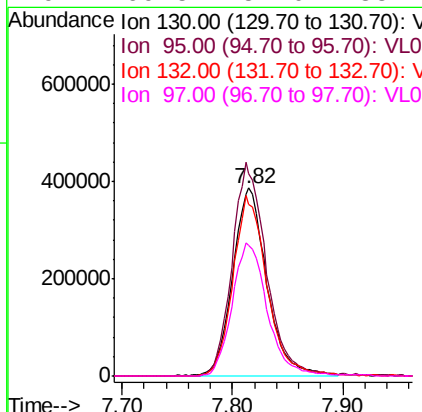
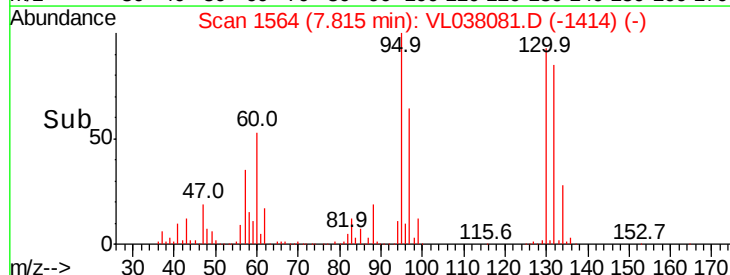
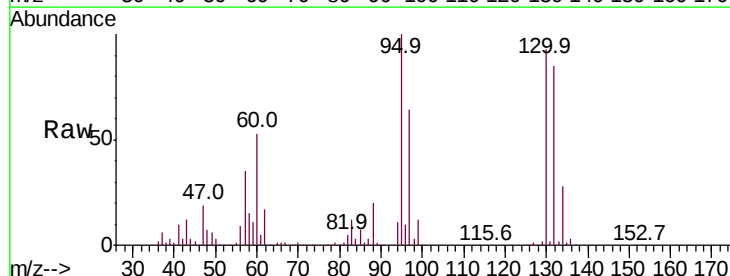
#37
 1,2-Dichloroethane
 Concen: 10.824 ppbv
 RT: 6.29
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId :
 VL1119ABS01
 Acq: 19 Nov 2021 12:23

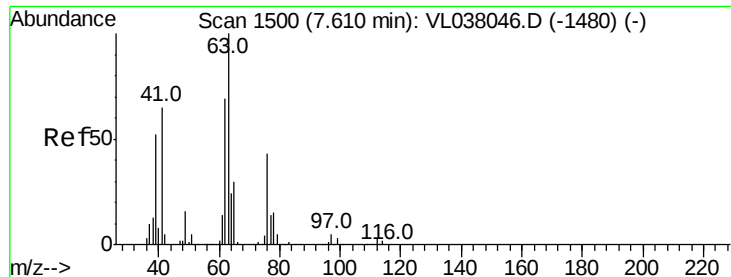
Tot Ion: 62 Resp: 1201739
 Ion Ratio Lower Upper
 62 100
 98 6.7 5.8 8.6



#38
 Trichloroethene
 Concen: 9.469 ppbv
 RT: 7.82 min Scan# 1564
 Delta R.T. -0.02 min
 Lab File: VL038081.D
 Acq: 19 Nov 2021 12:23

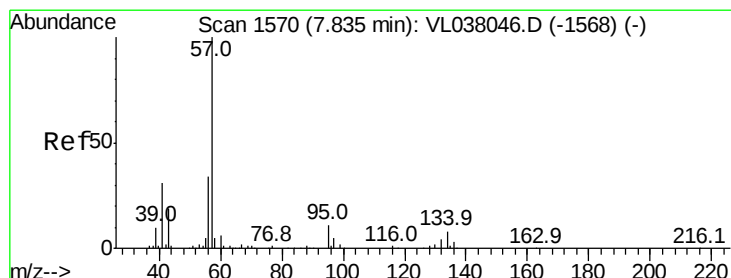
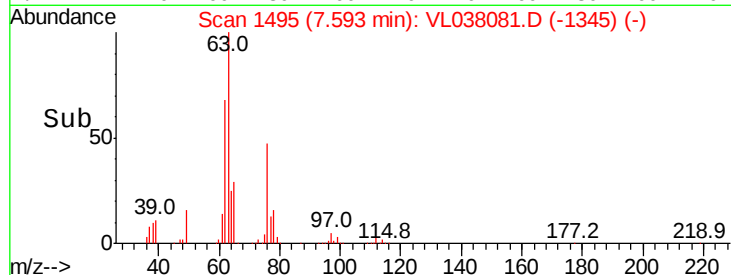
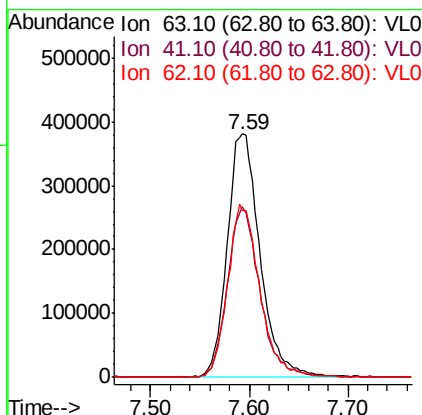
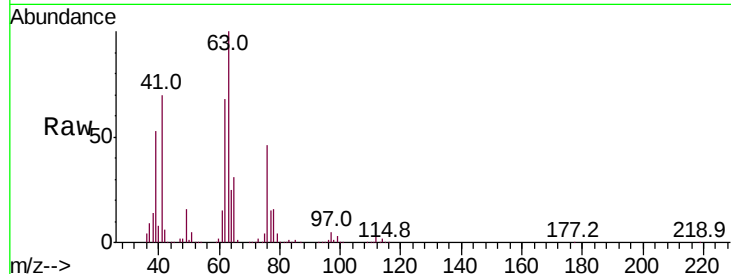
Tgt Ion:130 Resp: 821088
 Ion Ratio Lower Upper
 130 100
 95 108.2 89.4 134.2
 132 91.7 78.2 117.2
 97 69.5 57.0 85.4





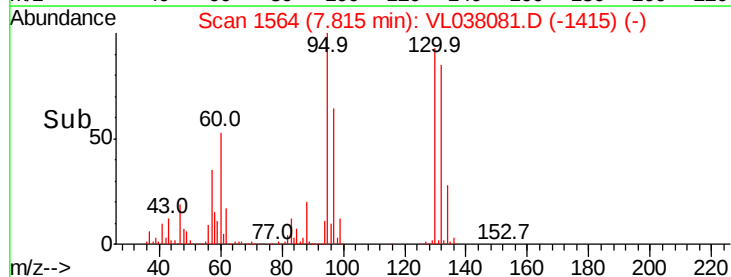
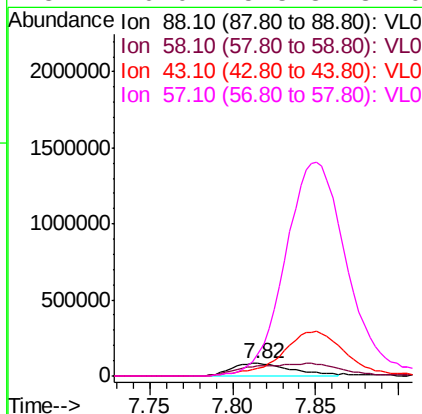
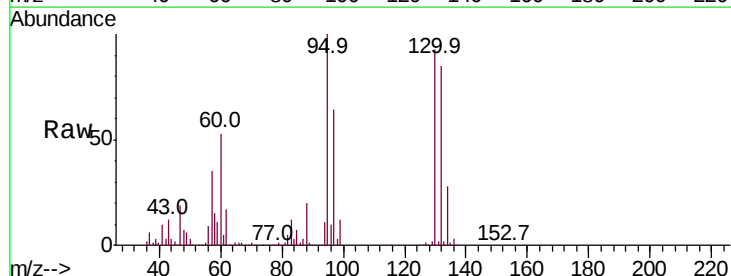
#39
 1,2-Dichloropropane
 Concen: 10.028 ppbv
 RT: 7.59
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 VL1119ABS01
 Acq: 19 Nov 2021 12:23

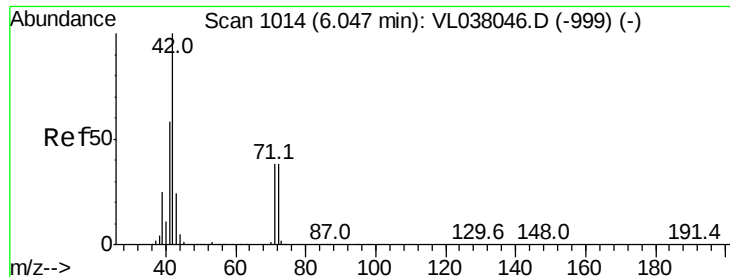
Tot Ion: 63 Resp: 884310
 Ion Ratio Lower Upper
 63 100
 41 70.0 52.3 78.5
 62 68.4 55.1 82.7



#40
 1,4-Dioxane
 Concen: 8.933 ppbv
 RT: 7.82 min Scan# 1564
 Delta R.T. -0.02 min
 Lab File: VL038081.D
 Acq: 19 Nov 2021 12:23

Tgt Ion: 88 Resp: 205227
 Ion Ratio Lower Upper
 88 100
 58 0.0 229.2 343.8#
 43 0.0 553.3 829.9#
 57 0.0 2513.8 3770.8#





#41

Tetrahydrofuran

Concen: 9.826 ppbv

RT: 6.03

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 19 Nov 2021 12:23

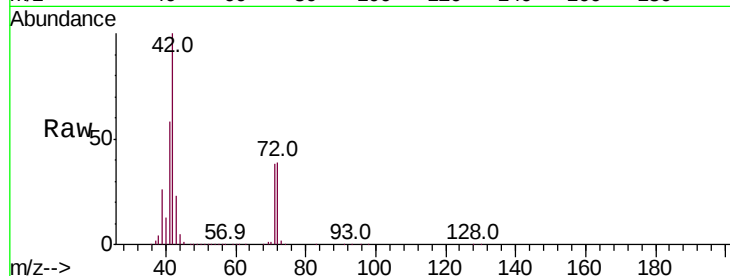
Tot Ion: 42 Resp: 566831

Ion Ratio Lower Upper

42 100

72 39.1 31.7 47.5

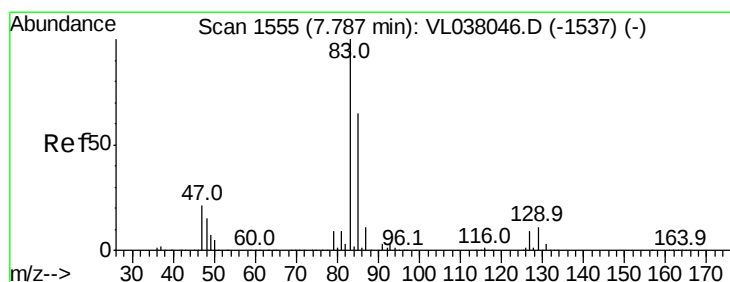
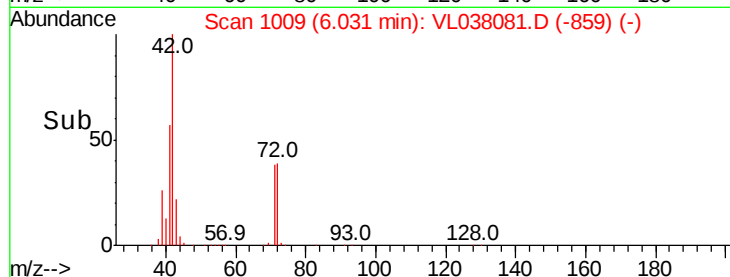
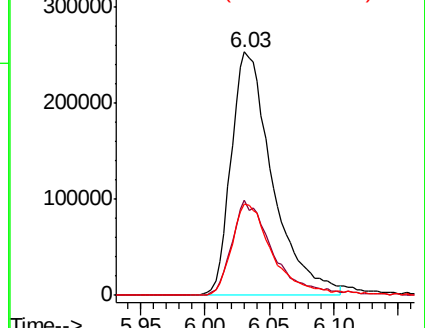
71 37.6 30.6 46.0



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



#42

Bromodichloromethane

Concen: 10.370 ppbv

RT: 7.77 min Scan# 1550

Delta R.T. -0.02 min

Lab File: VL038081.D

Acq: 19 Nov 2021 12:23

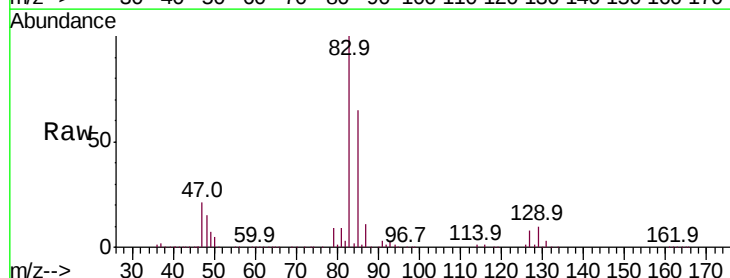
Tgt Ion: 83 Resp: 1750337

Ion Ratio Lower Upper

83 100

85 65.1 51.9 77.9

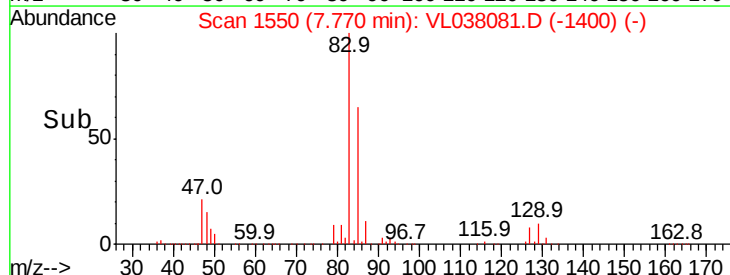
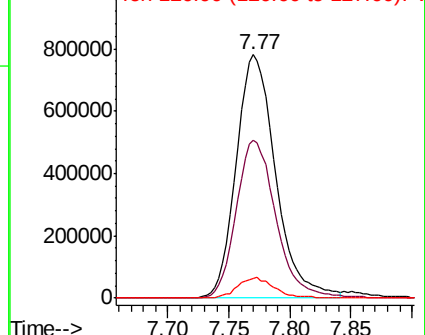
127 7.8 6.8 10.2

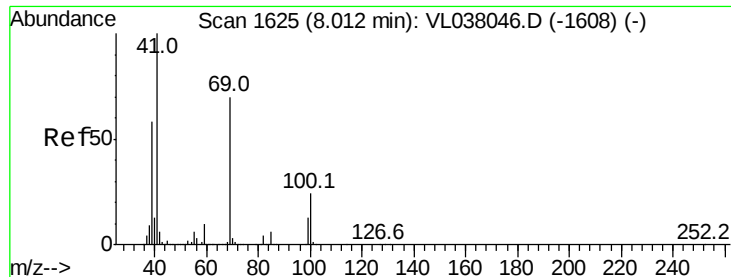


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V





#43

Methyl Methacrylate

Concen: 10.750 ppbv

RT: 7.99

Instrument: MSVOA_1

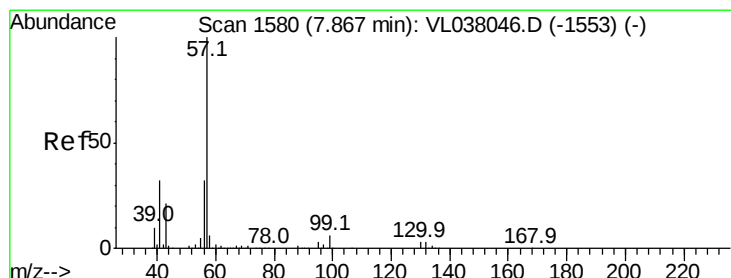
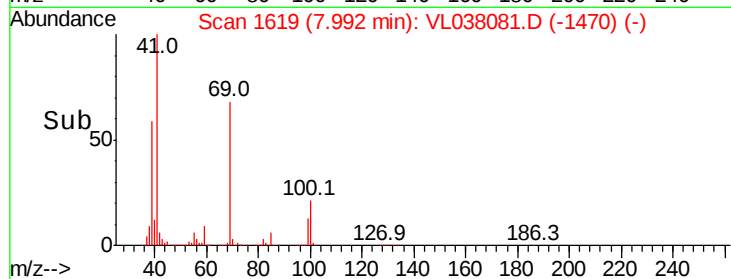
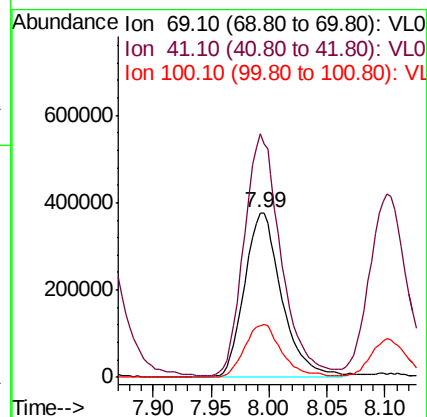
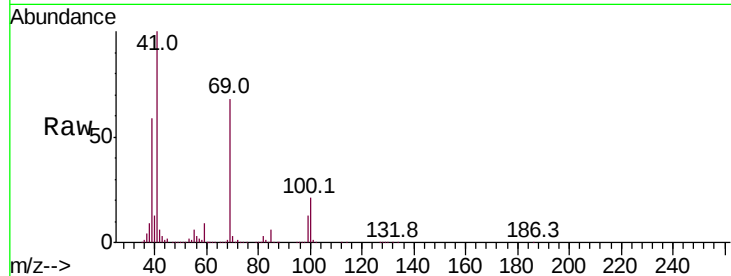
Delta R.T. ClientSampleId:

Lab File: VL1119ABS01

Acq: 19 Nov 2021 12:23

Tot Ion: 69 Resp: 845501

Ion	Ratio	Lower	Upper
69	100		
41	146.5	116.7	175.1
100	32.2	27.3	40.9



#44

2,2,4-Trimethylpentane

Concen: 9.581 ppbv

RT: 7.85 min Scan# 1575

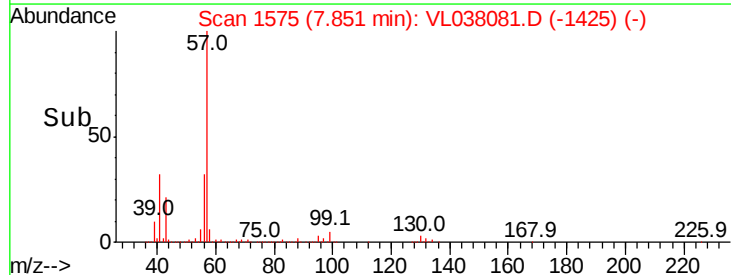
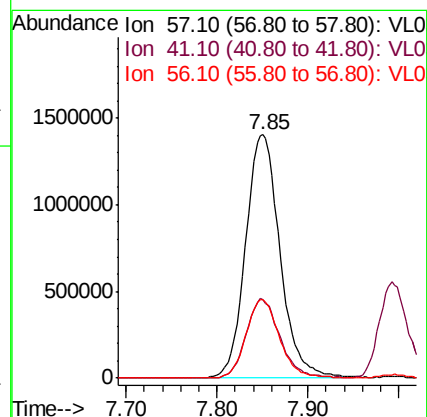
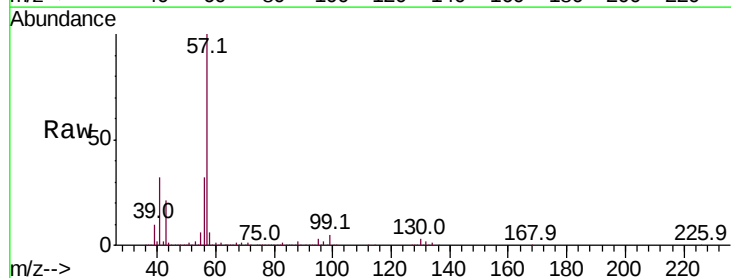
Delta R.T. -0.02 min

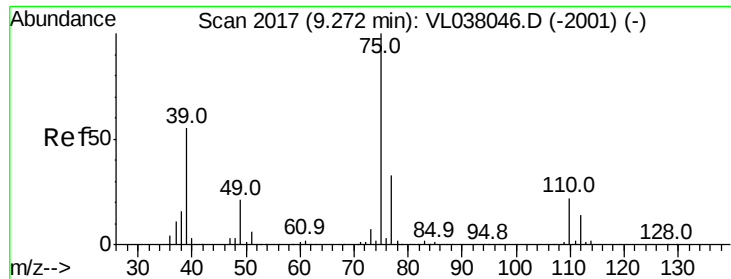
Lab File: VL038081.D

Acq: 19 Nov 2021 12:23

Tgt Ion: 57 Resp: 3685134

Ion	Ratio	Lower	Upper
57	100		
41	32.0	25.8	38.6
56	31.5	25.6	38.4





#45

t-1,3-Dichloropropene

Concen: 11.427 ppbv

RT: 9.26 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

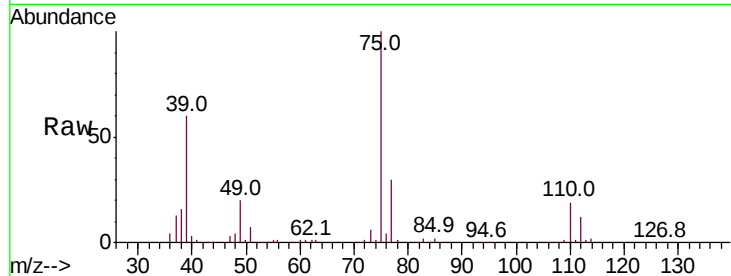
Acq: 19 Nov 2021 12:23 VL1119ABS01

Tot Ion: 75 Resp: 720863

Ion Ratio Lower Upper

75 100

77 29.9 26.2 39.4



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.26

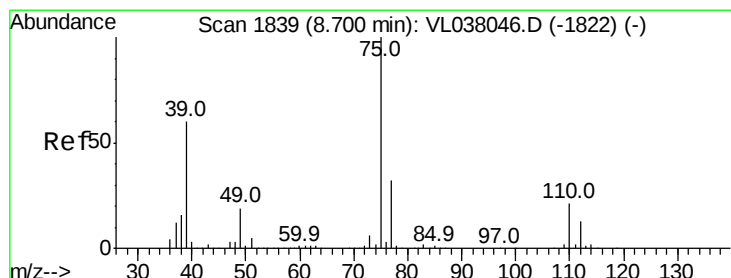
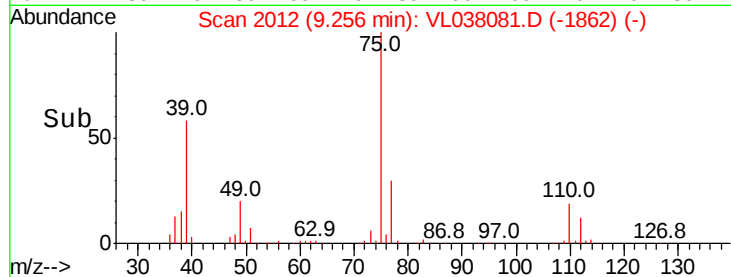
300000

200000

100000

0

Time--> 9.15 9.20 9.25 9.30 9.35



#46

cis-1,3-Dichloropropene

Concen: 10.803 ppbv

RT: 8.68 min Scan# 1833

Delta R.T. -0.02 min

Lab File: VL038081.D

Acq: 19 Nov 2021 12:23

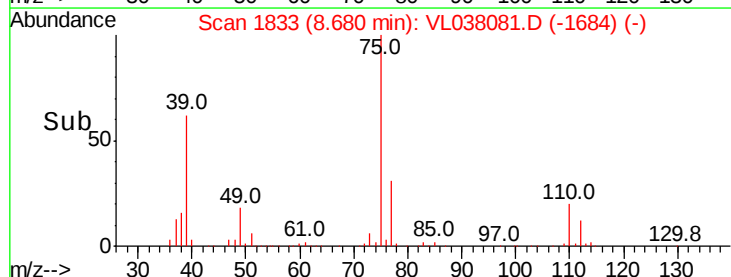
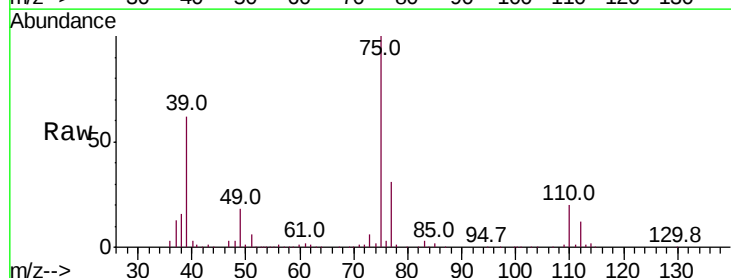
Tgt Ion: 75 Resp: 921793

Ion Ratio Lower Upper

75 100

39 62.0 47.8 71.8

77 30.8 25.5 38.3



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

600000

500000

400000

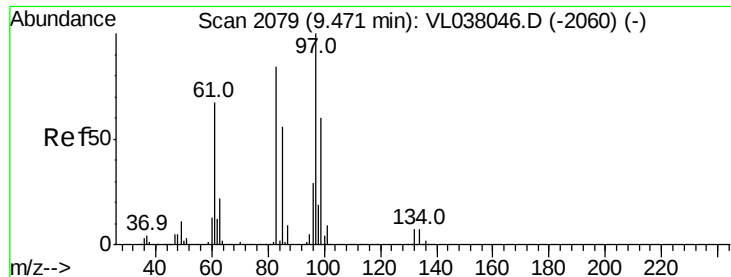
300000

200000

100000

0

Time--> 8.60 8.65 8.70 8.75 8.80



#47

1,1,2-Trichloroethane

Concen: 9.781 ppbv

RT: 9.46

Instrument: MSVOA_1

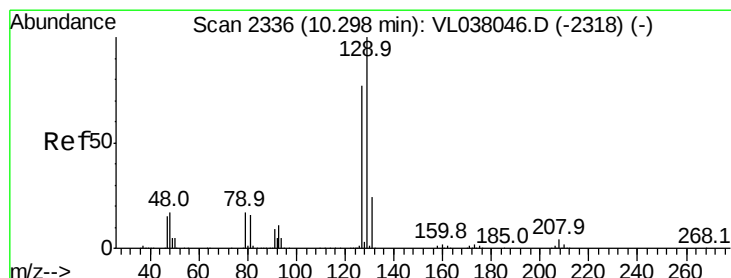
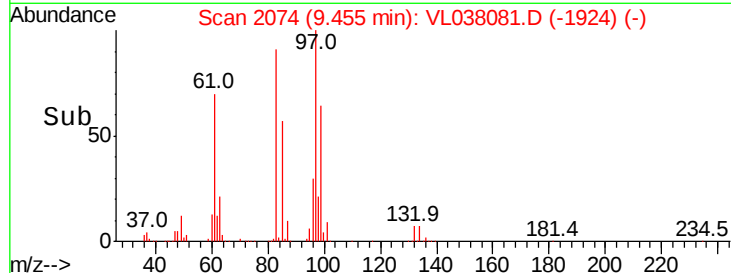
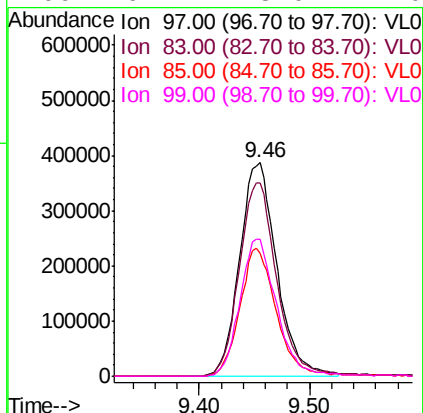
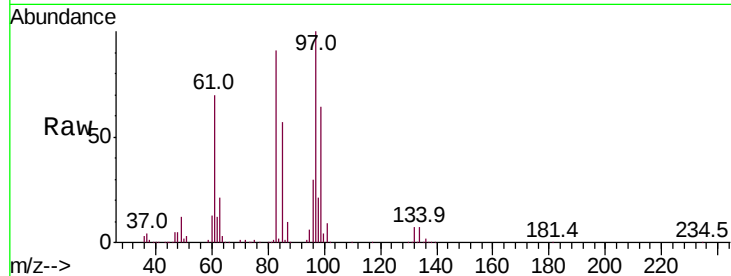
Delta R.T.:

Client Sample Id: VL1119ABS01

Lab File:

Acq: 19 Nov 2021 12:23

Tot Ion:	97	Resp:	903366
Ion	Ratio	Lower	Upper
97	100		
83	90.5	66.8	100.2
85	57.3	44.9	67.3
99	64.1	48.0	72.0



#48

Dibromochloromethane

Concen: 10.401 ppbv

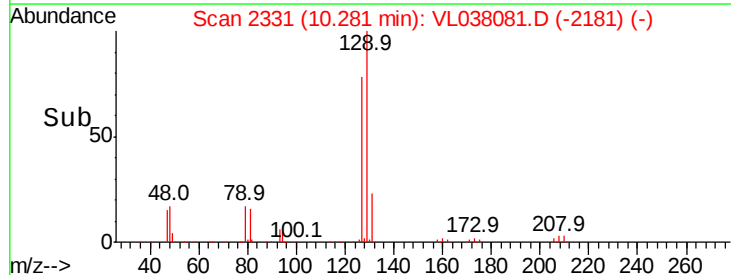
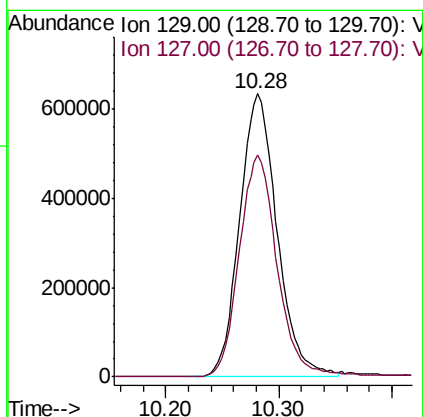
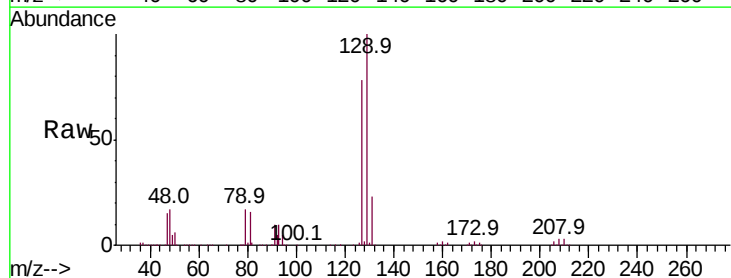
RT: 10.28 min Scan# 2331

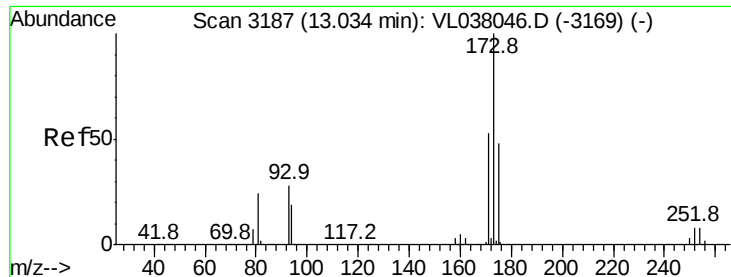
Delta R.T. -0.02 min

Lab File: VL038081.D

Acq: 19 Nov 2021 12:23

Tgt Ion:	129	Resp:	1462839
Ion	Ratio	Lower	Upper
129	100		
127	80.3	39.4	118.1





#49

Bromoform

Concen: 10.590 ppbv

RT: 13.01

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

VL1119ABS01

Acq: 19 Nov 2021 12:23

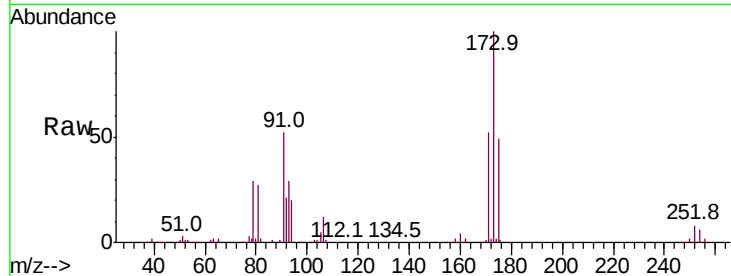
Tot Ion:173 Resp: 1065533

Ion Ratio Lower Upper

173 100

175 49.6 42.5 63.7

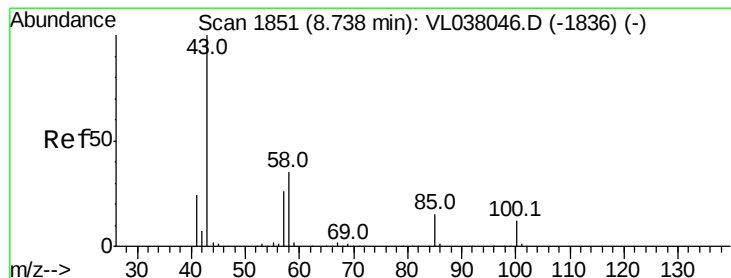
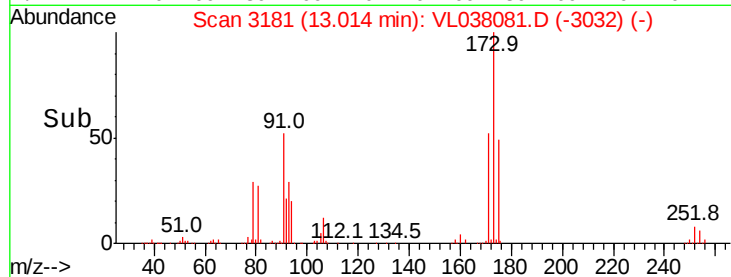
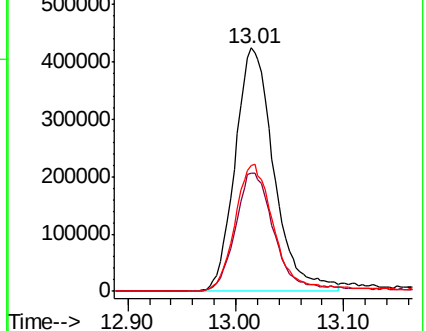
171 54.2 44.0 66.0



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.417 ppbv

RT: 8.72 min Scan# 1845

Delta R.T. -0.02 min

Lab File: VL038081.D

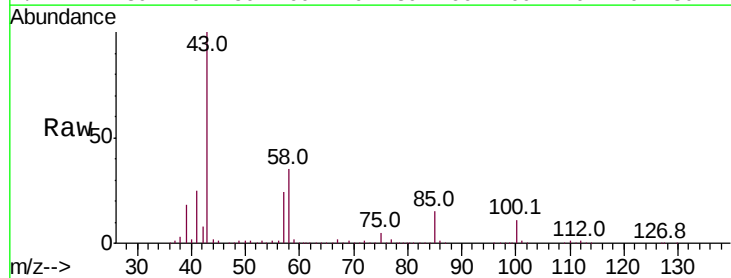
Acq: 19 Nov 2021 12:23

Tgt Ion: 43 Resp: 1470049

Ion Ratio Lower Upper

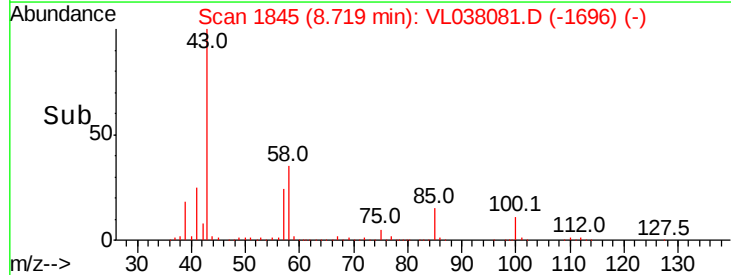
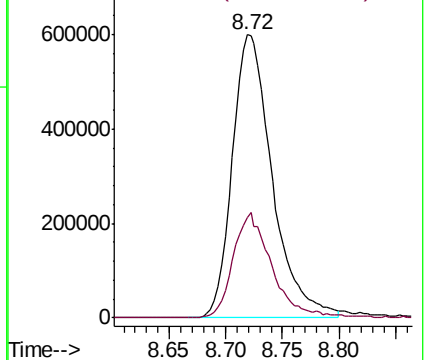
43 100

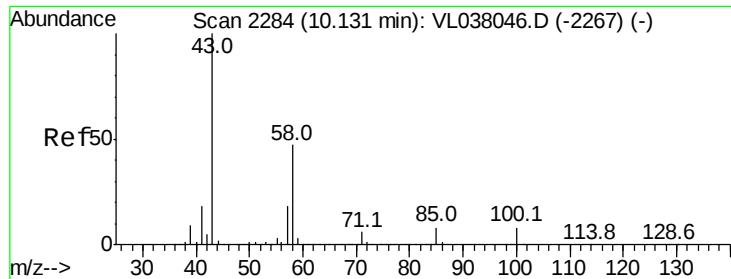
58 36.4 29.4 44.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

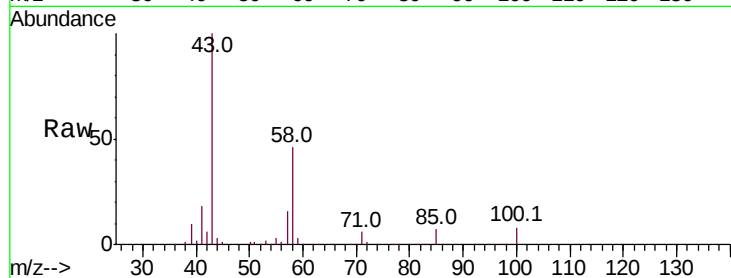
Ion 58.10 (57.80 to 58.80): VL0



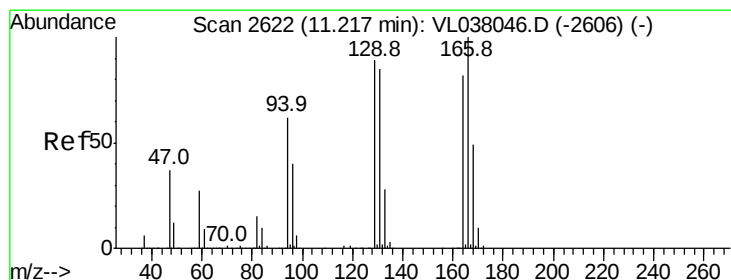
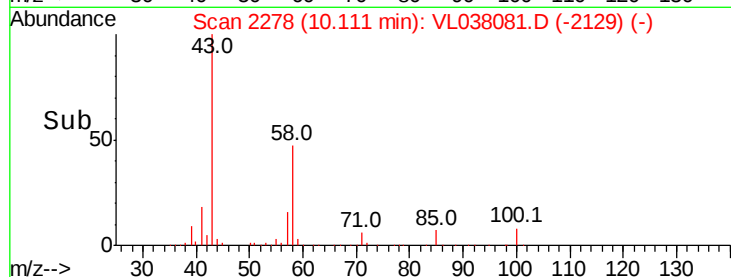
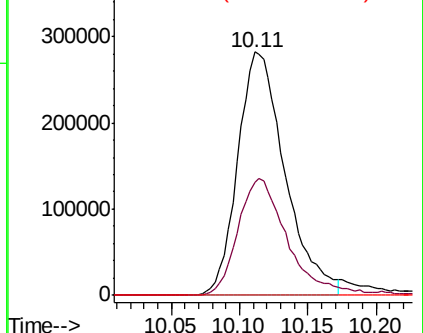


#51
2-Hexanone
Concen: 10.230 ppbv
RT: 10.11 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
VL1119ABS01
Acq: 19 Nov 2021 12:23

Tot Ion: 43 Resp: 679208
Ion Ratio Lower Upper
43 100
58 51.4 41.1 61.7
98 0.2 0.1 0.1#

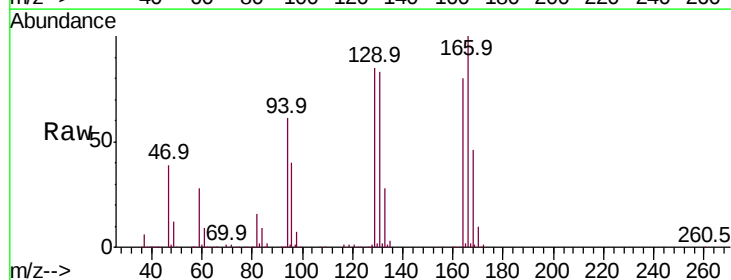


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0

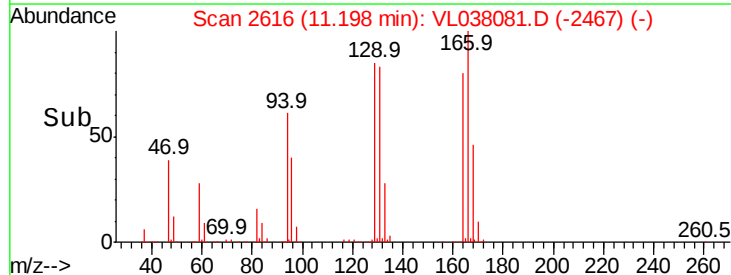
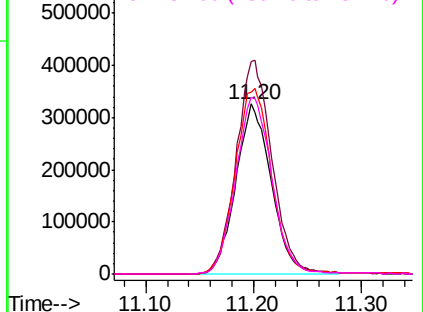


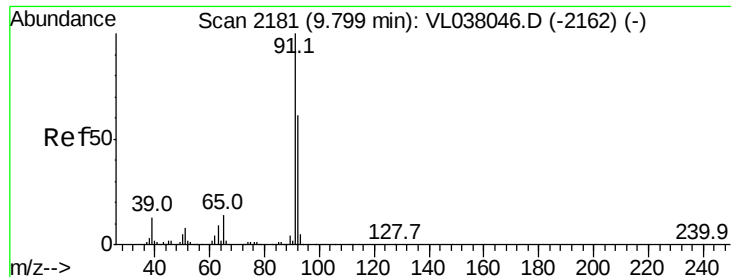
#52
Tetrachloroethene
Concen: 8.721 ppbv
RT: 11.20 min Scan# 2616
Delta R.T. -0.02 min
Lab File: VL038081.D
Acq: 19 Nov 2021 12:23

Tgt Ion:164 Resp: 741823
Ion Ratio Lower Upper
164 100
166 125.5 97.2 145.8
129 107.3 86.9 130.3
131 104.4 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: 9.753 ppbv

RT: 9.78 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

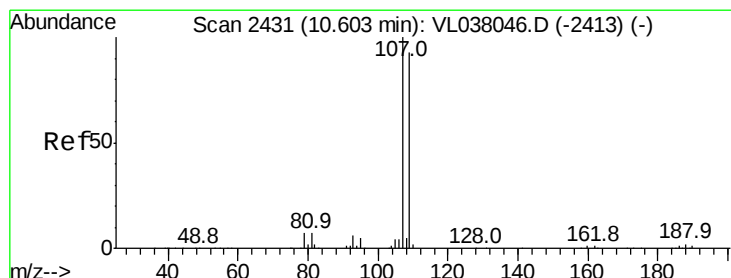
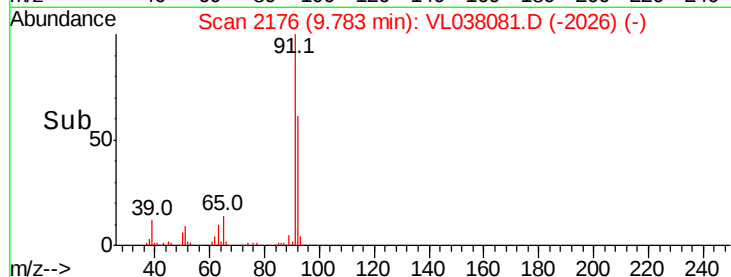
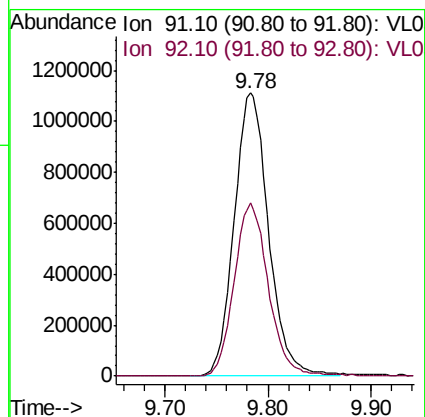
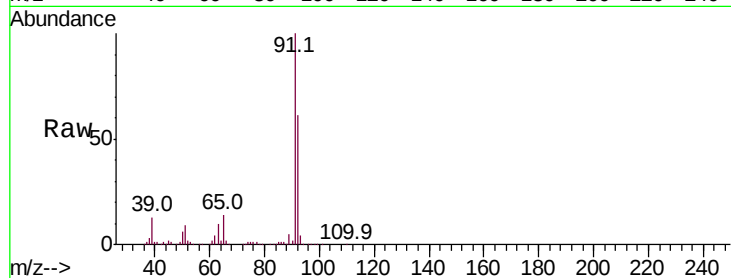
Acq: 19 Nov 2021 12:23 VL1119ABS01

Tot Ion: 91 Resp: 2579711

Ion Ratio Lower Upper

91 100

92 61.3 49.7 74.5



#54

1,2-Dibromoethane

Concen: 10.049 ppbv

RT: 10.59 min Scan# 2426

Delta R.T. -0.02 min

Lab File: VL038081.D

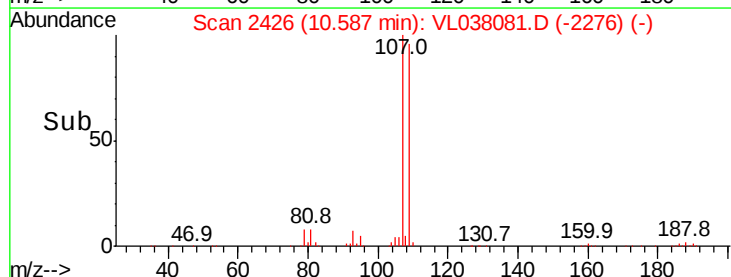
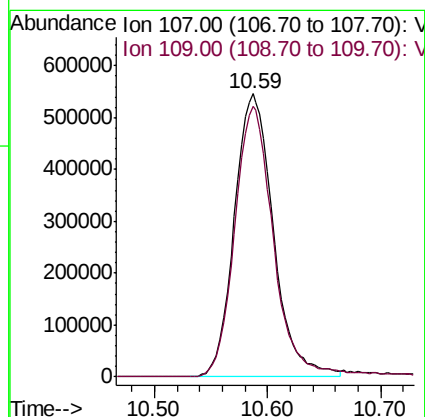
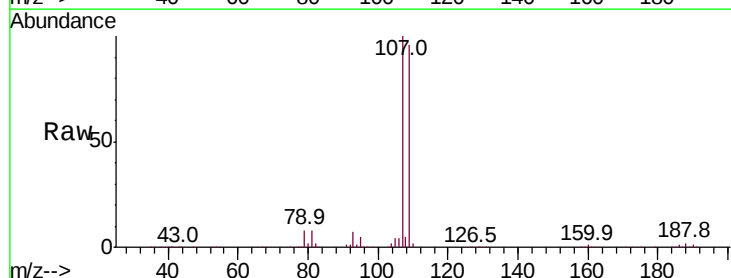
Acq: 19 Nov 2021 12:23

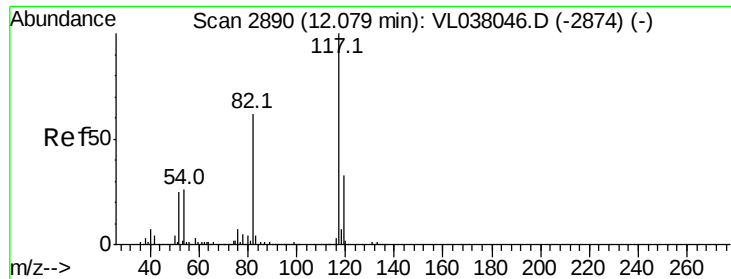
Tgt Ion: 107 Resp: 1310935

Ion Ratio Lower Upper

107 100

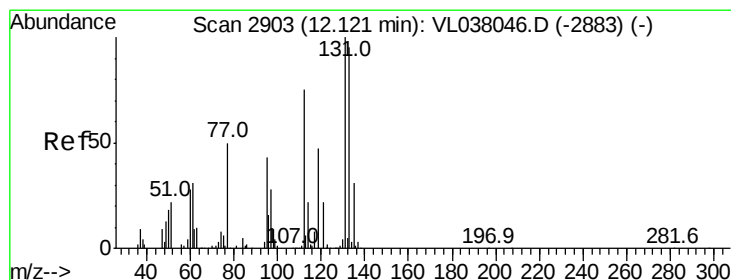
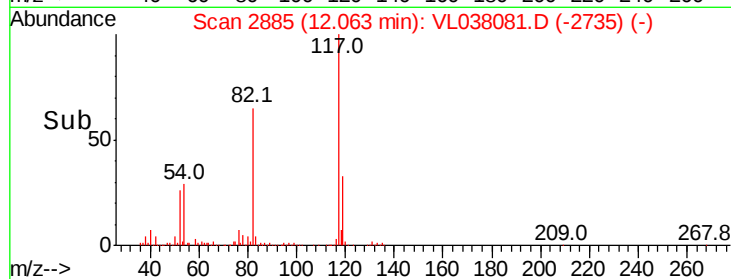
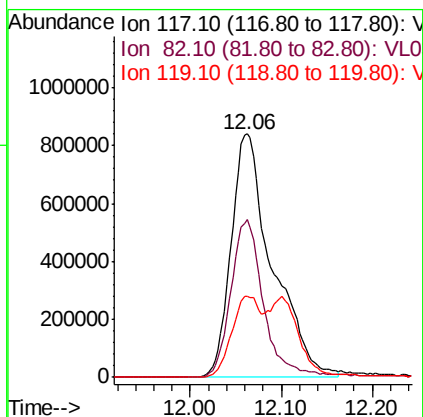
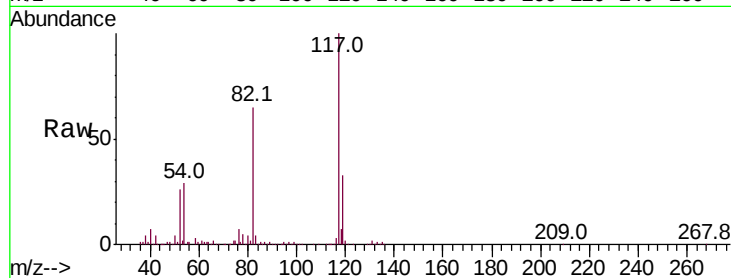
109 95.6 74.6 111.8





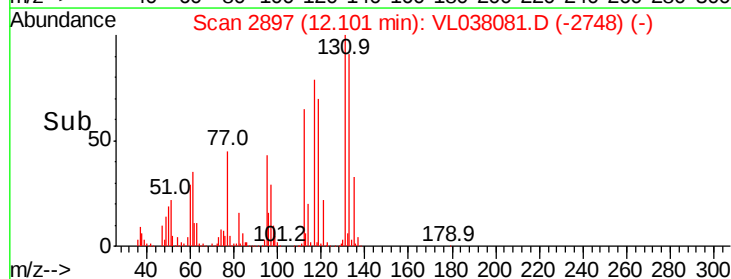
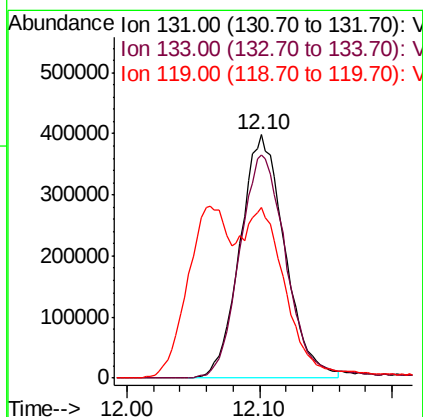
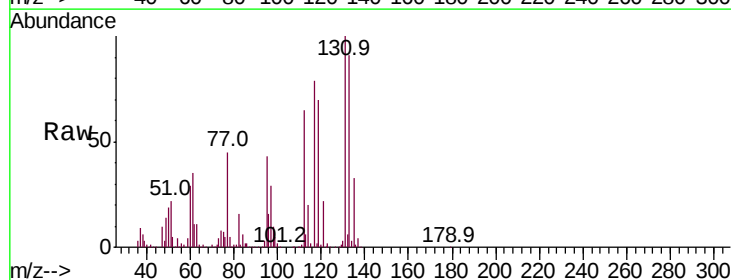
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06
Instrument: MSVOA_1
Delta R.T.:
Client Sample Id:
Lab File: VL1119ABS01
Acq: 19 Nov 2021 12:23

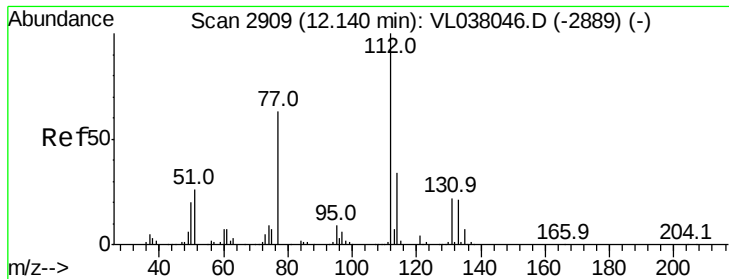
Tot Ion:117 Resp: 2648459
Ion Ratio Lower Upper
117 100
82 52.7 52.8 79.2#
119 24.2 26.8 40.2#



#56
1,1,1,2-Tetrachloroethane
Concen: 7.739 ppbv
RT: 12.10 min Scan# 2897
Delta R.T. -0.02 min
Lab File: VL038081.D
Acq: 19 Nov 2021 12:23

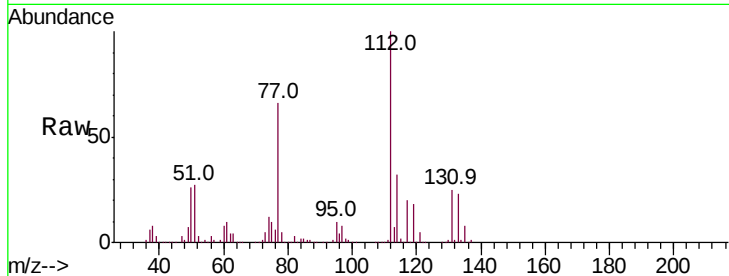
Tgt Ion:131 Resp: 930469
Ion Ratio Lower Upper
131 100
133 99.0 78.8 118.2
119 75.0 56.3 84.5



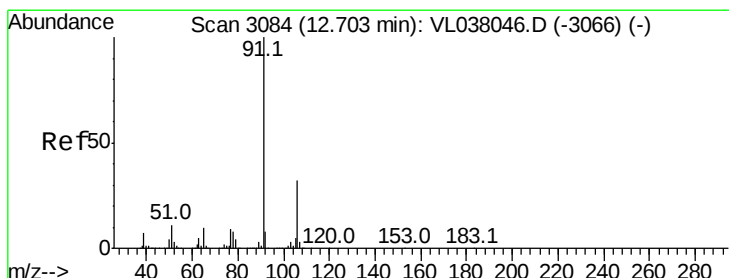
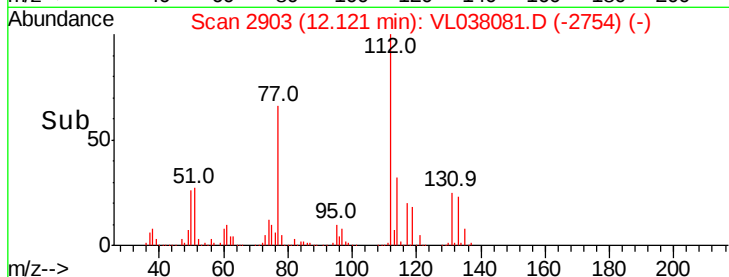
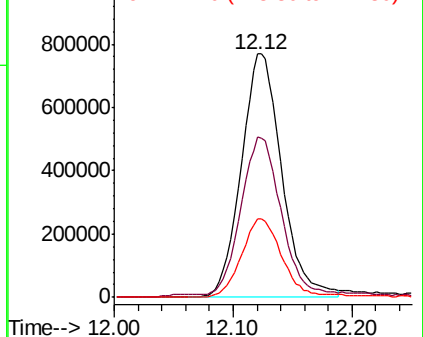


#57
Chlorobenzene
Concen: 7.611 ppbv
RT: 12.12 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId : VL1119ABS01
Acq: 19 Nov 2021 12:23

Tot Ion: 112 Resp: 1806750
Ion Ratio Lower Upper
112 100
77 64.6 50.3 75.5
114 32.3 30.7 37.5

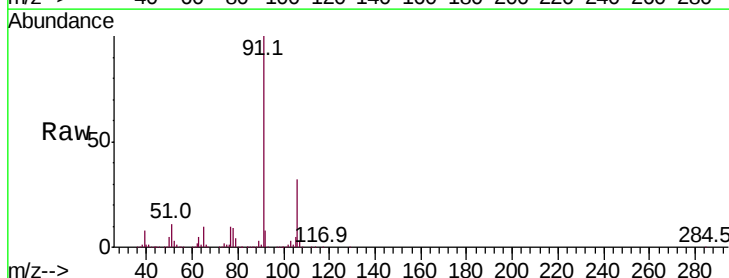


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

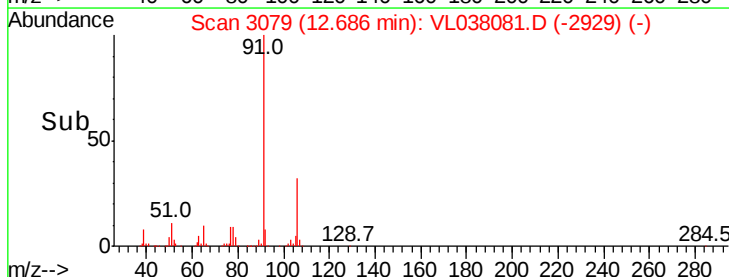
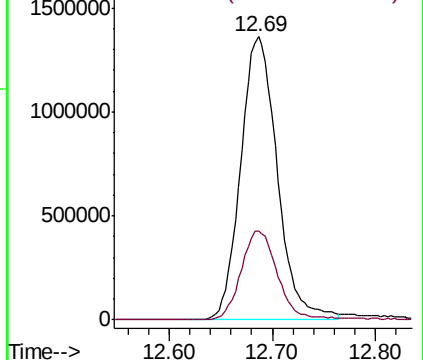


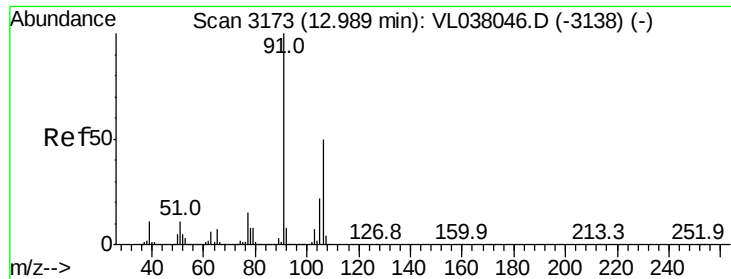
#58
Ethyl Benzene
Concen: 7.689 ppbv
RT: 12.69 min Scan# 3079
Delta R.T. -0.02 min
Lab File: VL038081.D
Acq: 19 Nov 2021 12:23

Tgt Ion: 91 Resp: 3365851
Ion Ratio Lower Upper
91 100
106 31.6 25.8 38.6



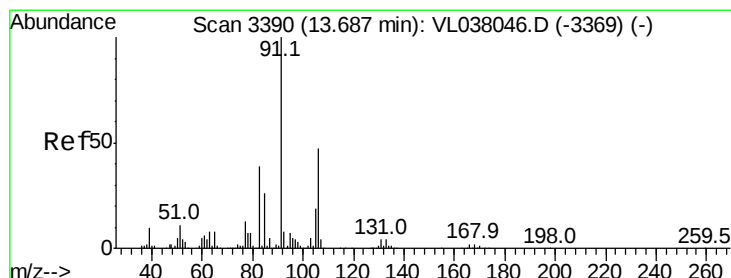
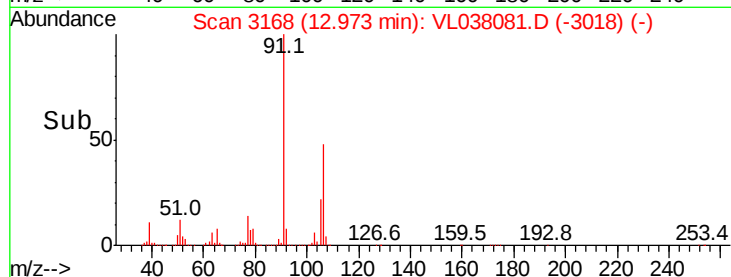
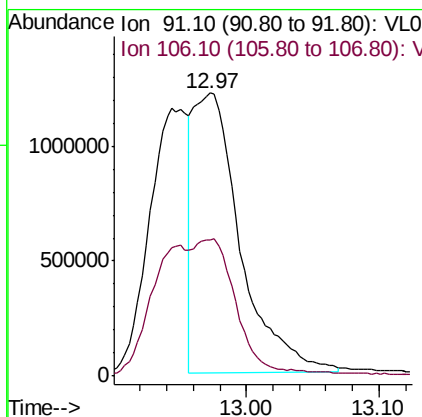
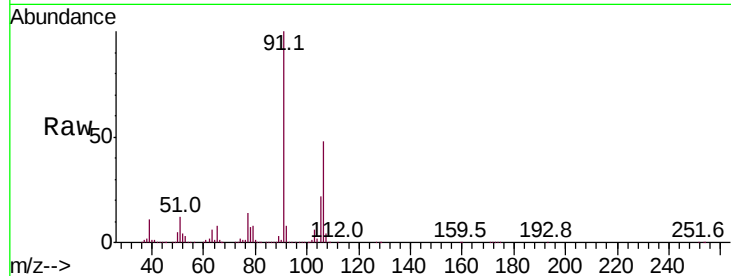
Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





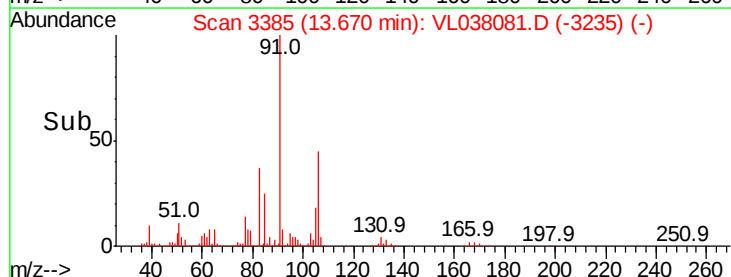
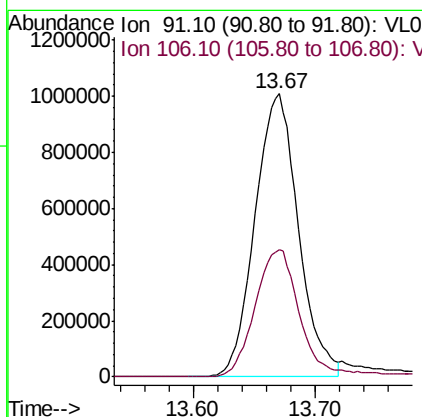
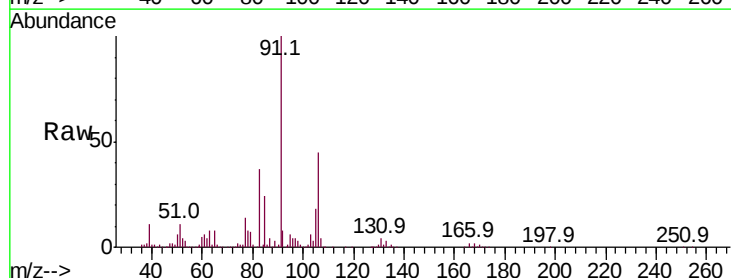
#59
m/p-Xylene
Concen: 8.092 ppbv
RT: 12.97 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
VL1119ABS01
Acq: 19 Nov 2021 12:23

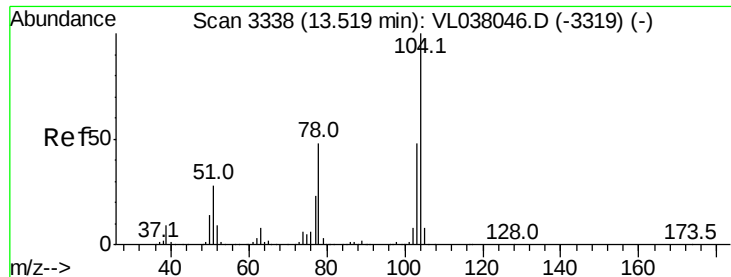
Tot Ion: 91 Resp: 2981917
Ion Ratio Lower Upper
91 100
106 85.5 38.1 57.1#



#60
o-Xylene
Concen: 7.262 ppbv
RT: 13.67 min Scan# 3385
Delta R.T.: -0.02 min
Lab File: VL038081.D
Acq: 19 Nov 2021 12:23

Tgt Ion: 91 Resp: 2482340
Ion Ratio Lower Upper
91 100
106 47.9 24.2 72.6

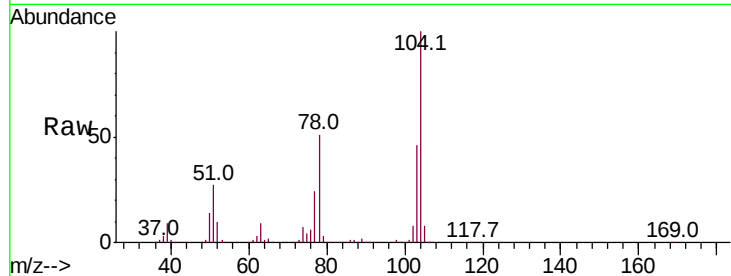




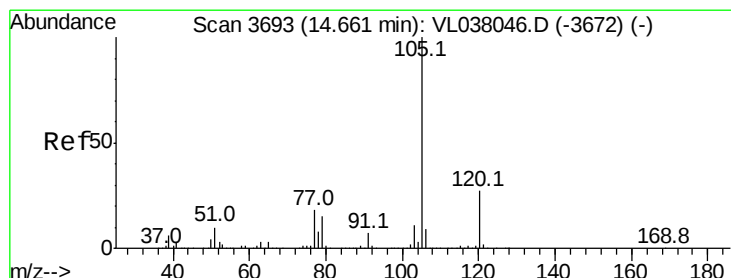
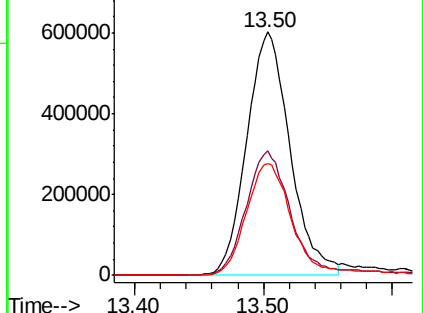
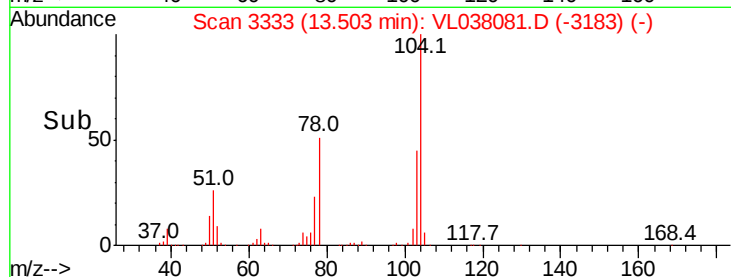
#61
Stvrene
Concen: 7.708 ppbv
RT: 13.50
Delta R.T. MSVOA_1
Lab File: ClientSampleId : VL1119ABS01
Acq: 19 Nov 2021 12:23

Tot Ion:104 Resp: 1412604

Ion	Ratio	Lower	Upper
104	100		
78	53.9	39.8	59.6
103	49.4	38.2	57.2



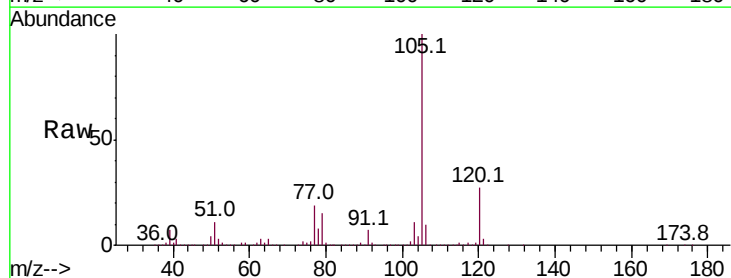
Abundance Ion 104.10 (103.80 to 104.80): V
 Ion 78.10 (77.80 to 78.80): VL0
 Ion 103.10 (102.80 to 103.80): V



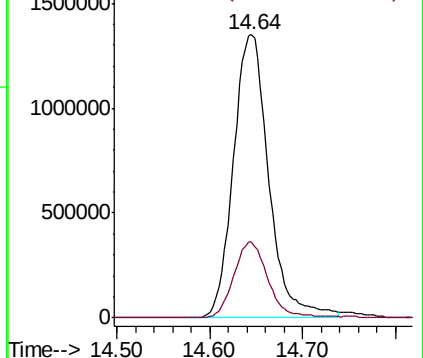
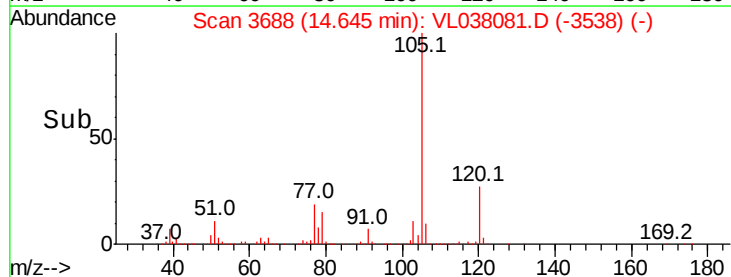
#62
Isopropylbenzene
Concen: 7.392 ppbv
RT: 14.64 min Scan# 3688
Delta R.T. -0.02 min
Lab File: VL038081.D
Acq: 19 Nov 2021 12:23

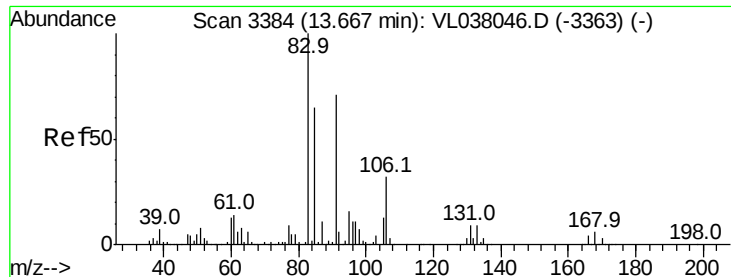
Tgt Ion:105 Resp: 3586526

Ion	Ratio	Lower	Upper
105	100		
120	26.4	21.8	32.6



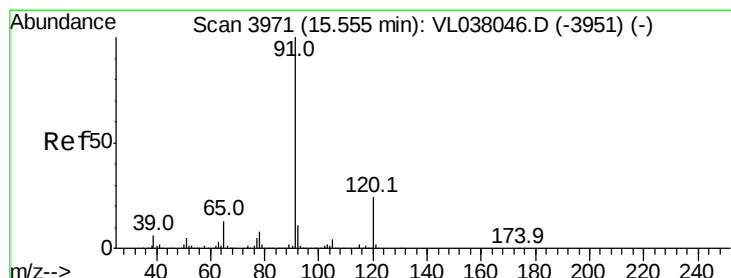
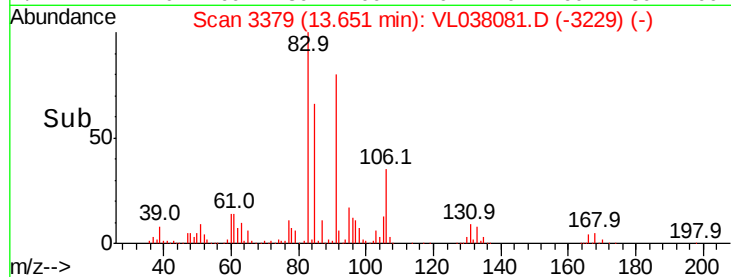
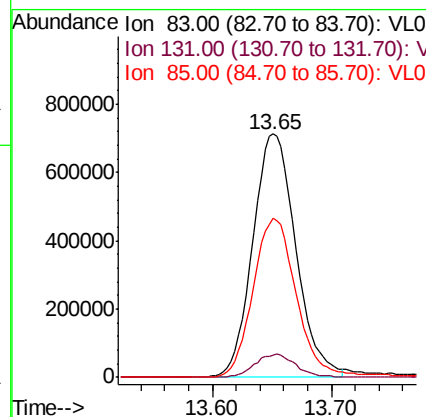
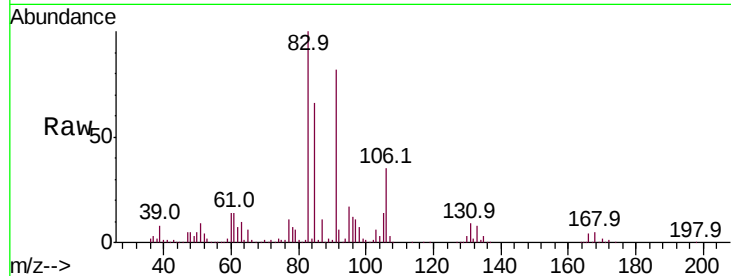
Abundance Ion 105.10 (104.80 to 105.80): V
 Ion 120.20 (119.90 to 120.90): V





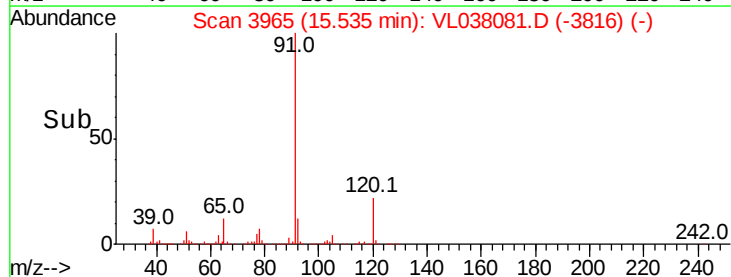
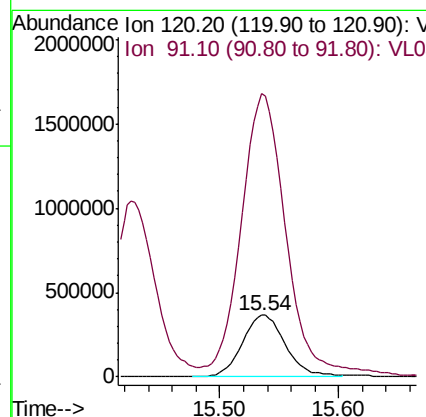
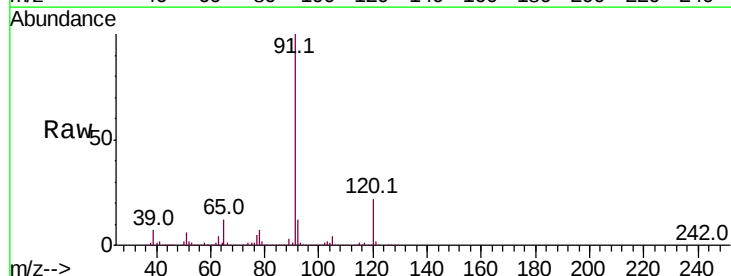
#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.010 ppbv
 RT: 13.65 min
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId : VL1119ABS01
 Acq: 19 Nov 2021 12:23

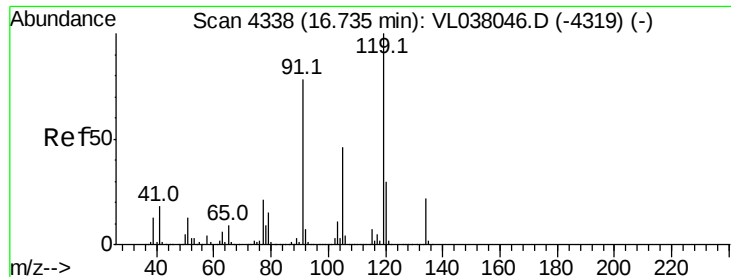
Tot Ion: 83 Resp: 1779861
 Ion Ratio Lower Upper
 83 100
 131 9.4 4.9 14.7
 85 67.1 33.4 100.1



#64
 n-propylbenzene
 Concen: 7.450 ppbv
 RT: 15.54 min Scan# 3965
 Delta R.T. -0.02 min
 Lab File: VL038081.D
 Acq: 19 Nov 2021 12:23

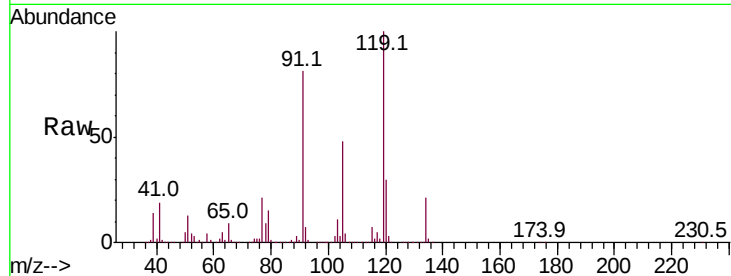
Tgt Ion:120 Resp: 920891
 Ion Ratio Lower Upper
 120 100
 91 478.8 371.7 557.5



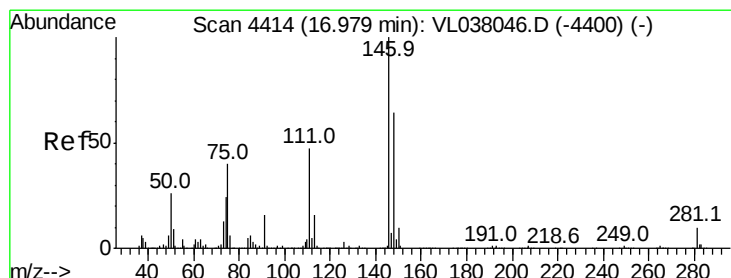
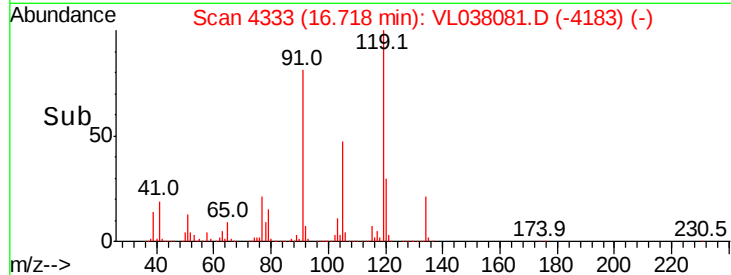
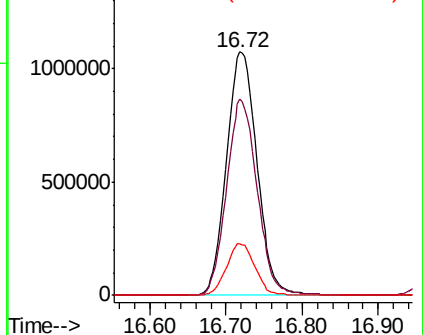


#65
tert-Butylbenzene
Concen: 7.020 ppbv
RT: 16.72 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId : VL1119ABS01
Acq: 19 Nov 2021 12:23

Tot Ion: 119 Resp: 3001001
Ion Ratio Lower Upper
119 100
91 80.3 63.2 94.8
134 19.8 16.1 24.1

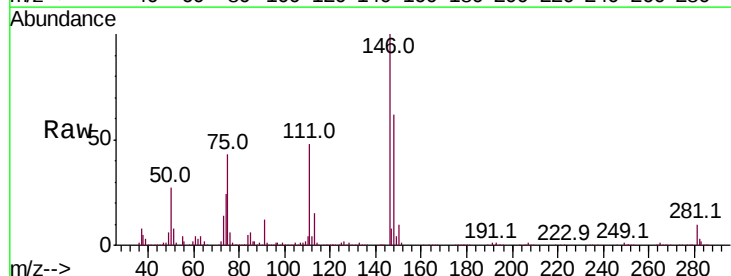


Abundance Ion 119.20 (118.90 to 119.90): V
Ion 91.10 (90.80 to 91.80): VL0
Ion 134.20 (133.90 to 134.90): V

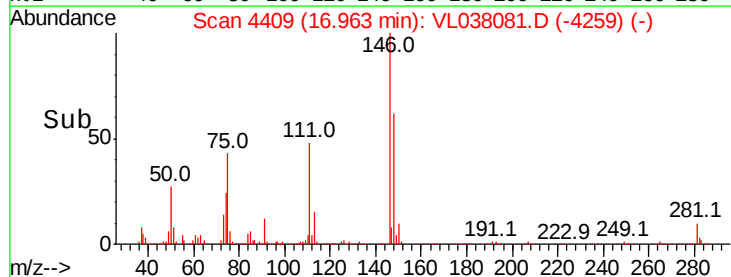
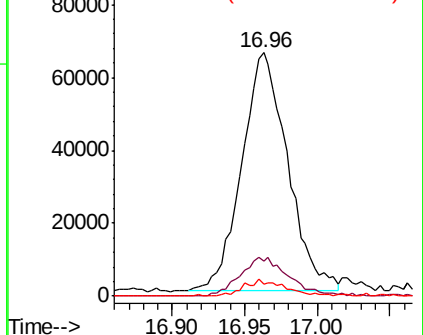


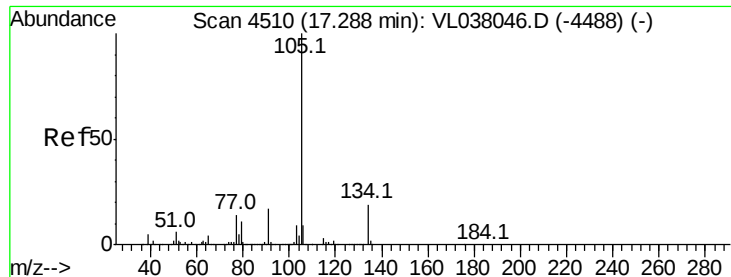
#66
Benzyl Chloride
Concen: 6.650 ppbv
RT: 16.96 min Scan# 4409
Delta R.T.: -0.02 min
Lab File: VL038081.D
Acq: 19 Nov 2021 12:23

Tgt Ion: 91 Resp: 144073
Ion Ratio Lower Upper
91 100
126 17.4 15.5 23.3
128 6.5 5.6 8.4



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 126.10 (125.80 to 126.80): V
Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 7.086 ppbv

RT: 17.27

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

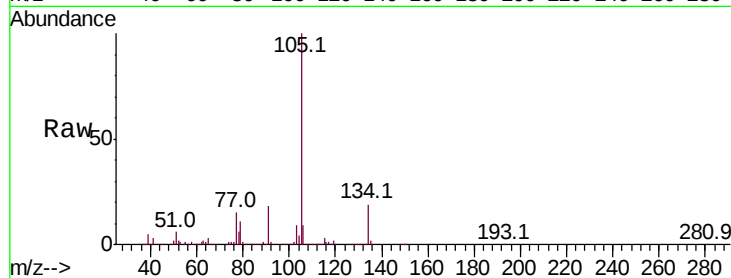
Acq: 19 Nov 2021 12:23

Tot Ion: 105 Resp: 4220865

Ion Ratio Lower Upper

105 100

134 18.3 14.7 22.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.27

1500000

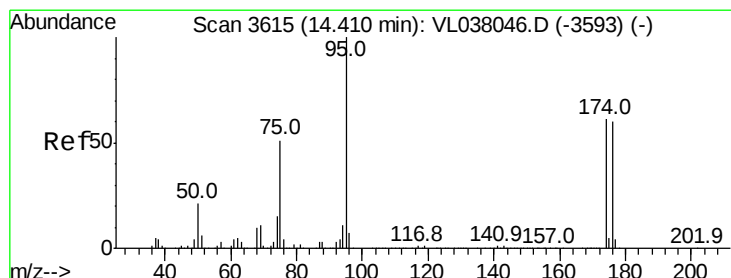
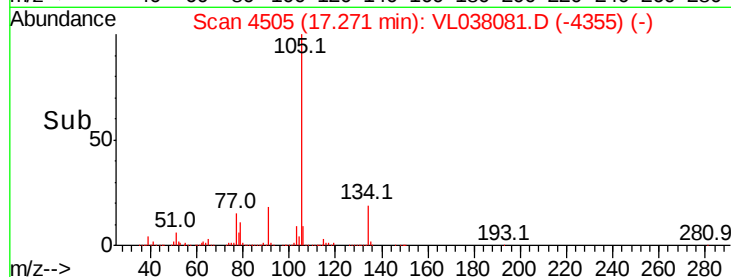
1000000

500000

0

Time-->

17.20 17.30 17.40



#68

1-Bromo-4-Fluorobenzene

Concen: 8.358 ppbv

RT: 14.39 min Scan# 3608

Delta R.T. -0.02 min

Lab File: VL038081.D

Acq: 19 Nov 2021 12:23

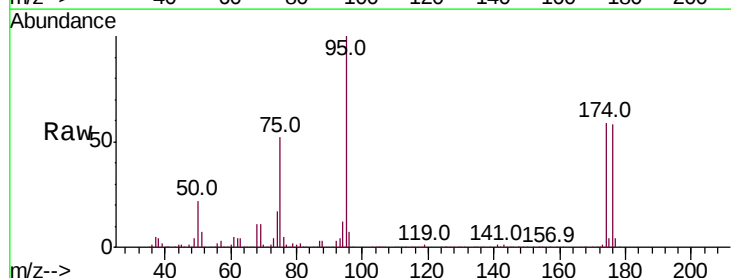
Tgt Ion: 95 Resp: 1596715

Ion Ratio Lower Upper

95 100

174 61.8 53.1 79.7

175 4.5 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

800000

600000

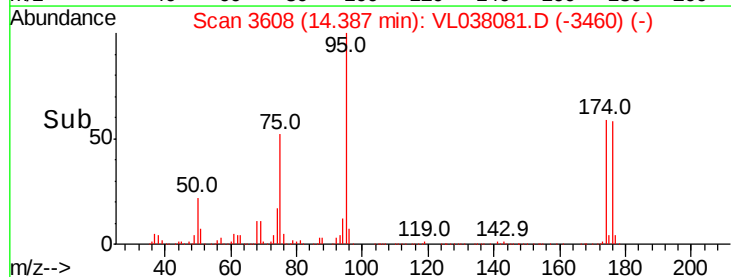
400000

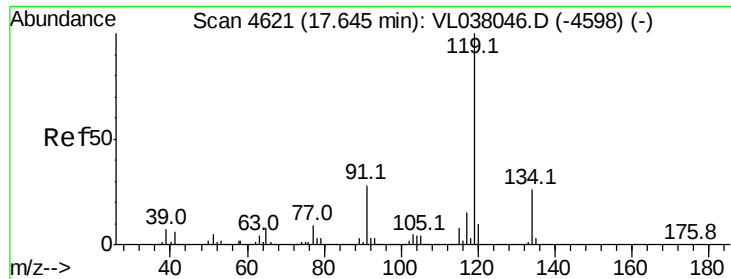
200000

0

Time-->

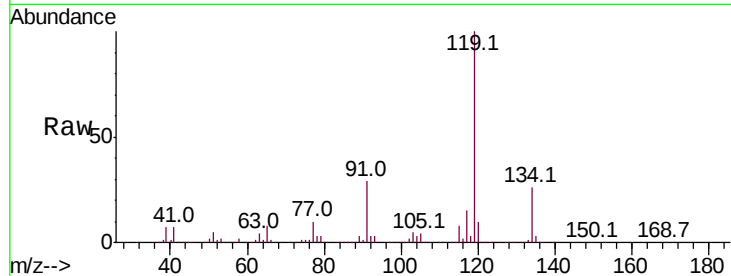
14.30 14.40 14.50



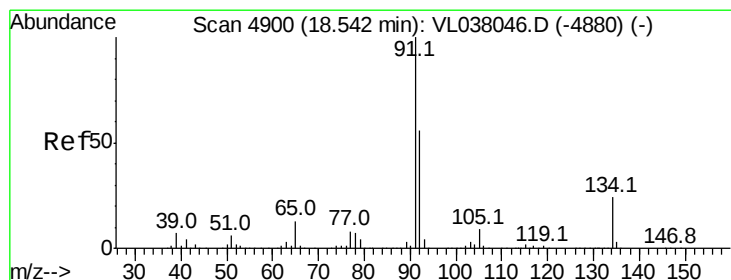
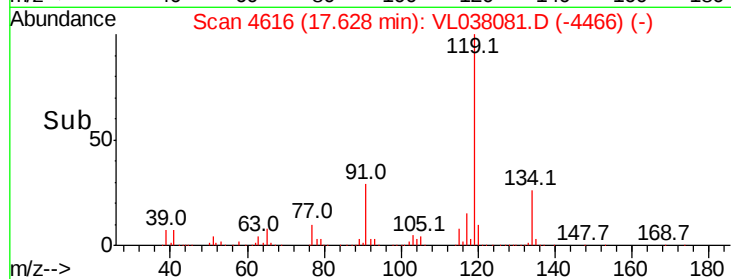
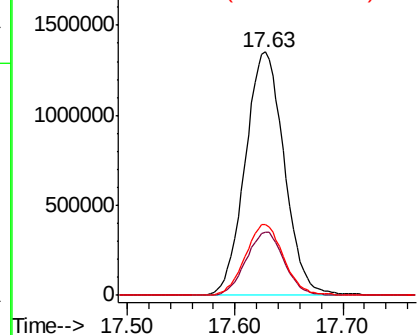


#69
 p-Isopropyltoluene
 Concen: 7.287 ppbv
 RT: 17.63 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId : VL1119ABS01
 Acq: 19 Nov 2021 12:23

Tot Ion: 119 Resp: 3395303
 Ion Ratio Lower Upper
 119 100
 134 25.6 20.6 30.8
 91 28.7 22.2 33.4

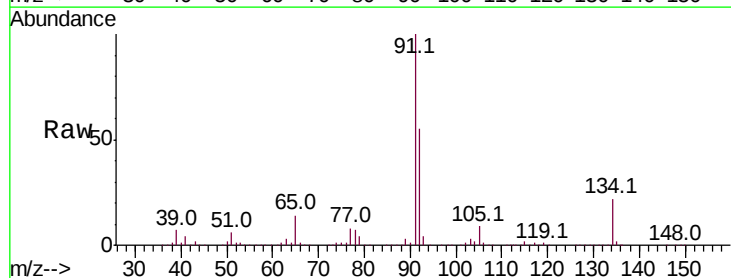


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

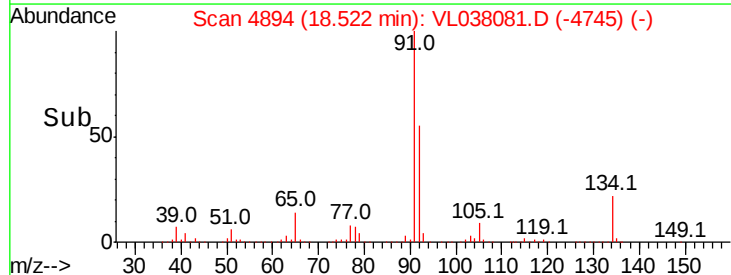
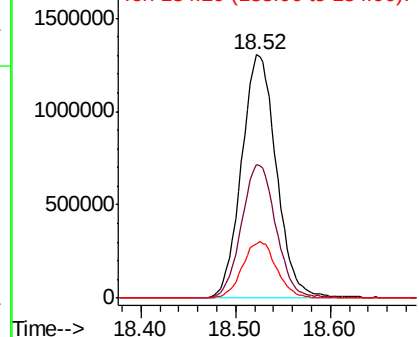


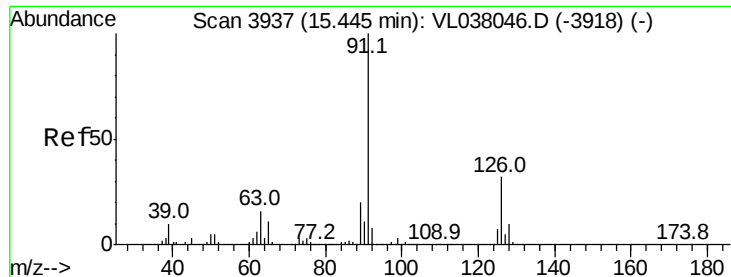
#70
 n-Butylbenzene
 Concen: 7.478 ppbv
 RT: 18.52 min Scan# 4894
 Delta R.T.: -0.02 min
 Lab File: VL038081.D
 Acq: 19 Nov 2021 12:23

Tgt Ion: 91 Resp: 3331514
 Ion Ratio Lower Upper
 91 100
 92 55.0 44.1 66.1
 134 22.8 18.9 28.3



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 7.405 ppbv

RT: 15.43

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

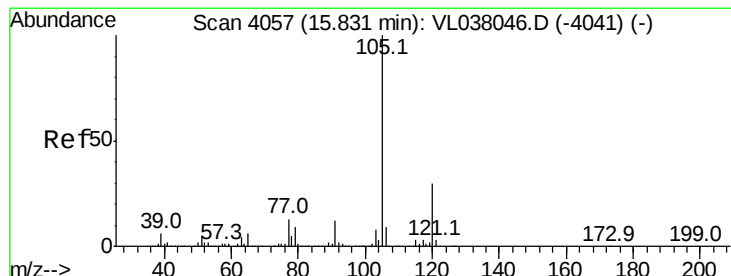
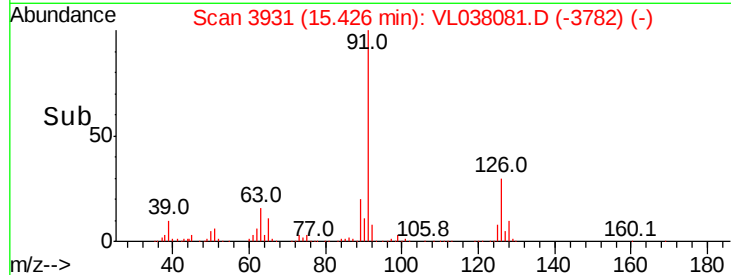
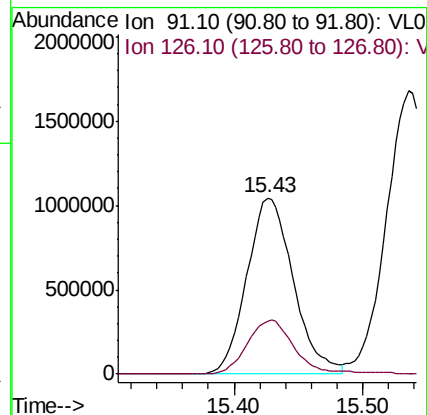
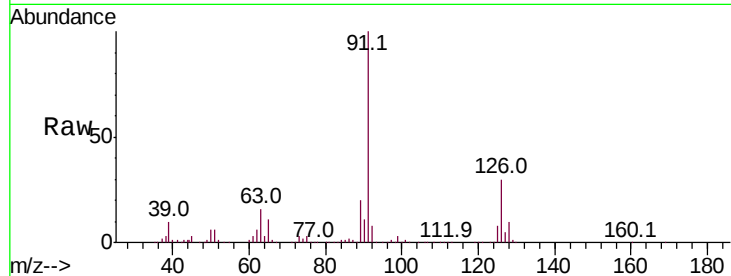
Acq: 19 Nov 2021 12:23

Tot Ion: 91 Resp: 2627142

Ion Ratio Lower Upper

91 100

126 31.8 13.1 52.3



#72

4-Ethyltoluene

Concen: 7.425 ppbv

RT: 15.81 min Scan# 4051

Delta R.T. -0.02 min

Lab File: VL038081.D

Acq: 19 Nov 2021 12:23

Tgt Ion:105 Resp: 2942770

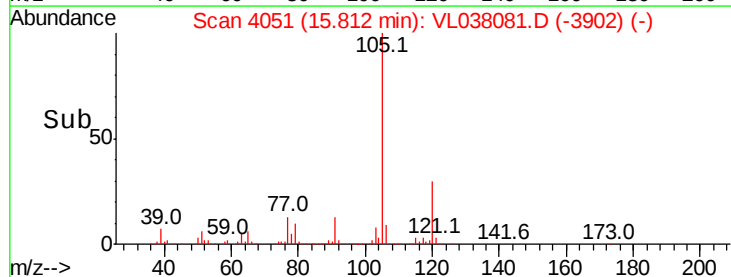
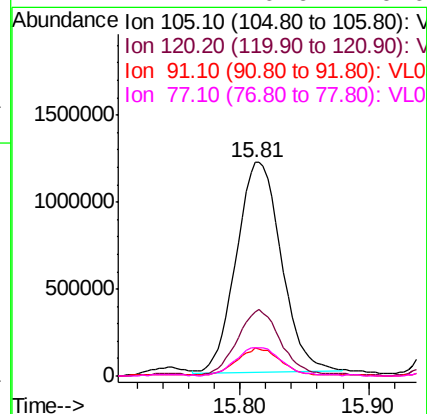
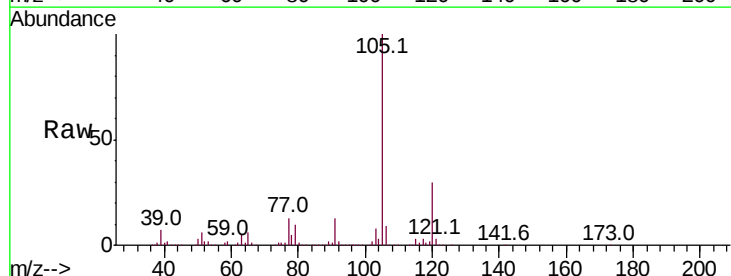
Ion Ratio Lower Upper

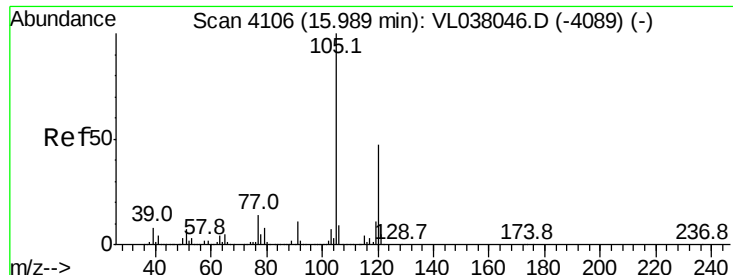
105 100

120 31.4 25.1 37.7

91 12.8 9.7 14.5

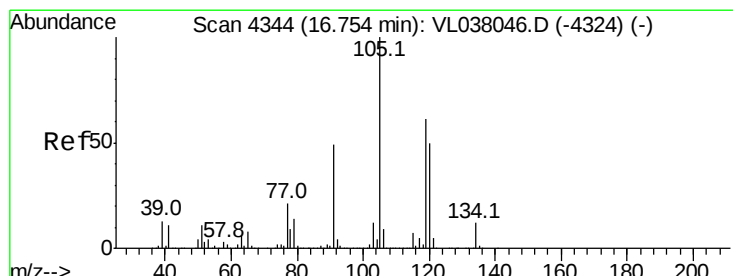
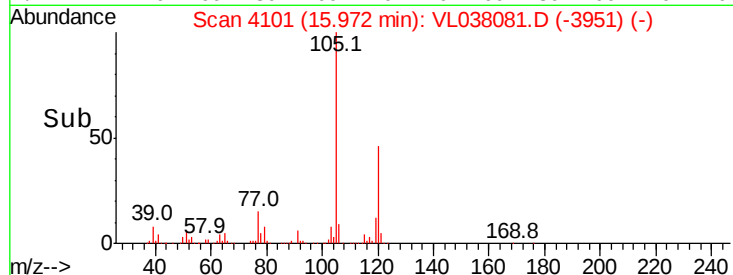
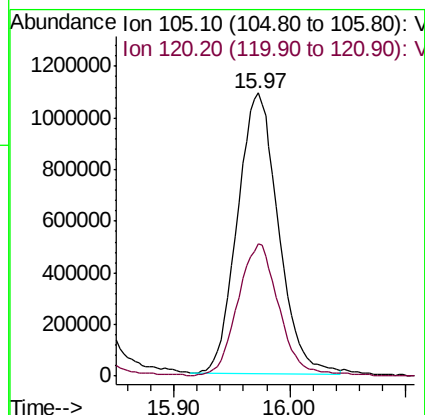
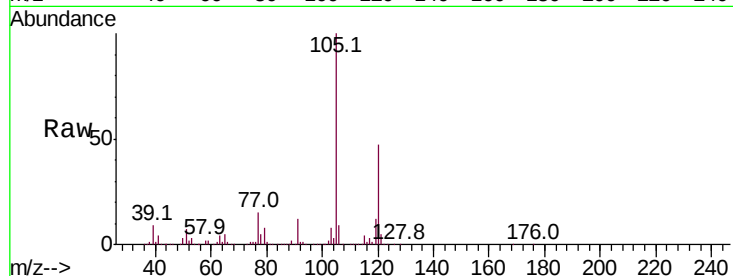
77 14.2 10.6 16.0





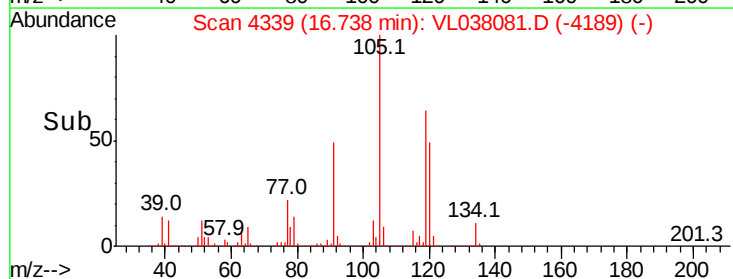
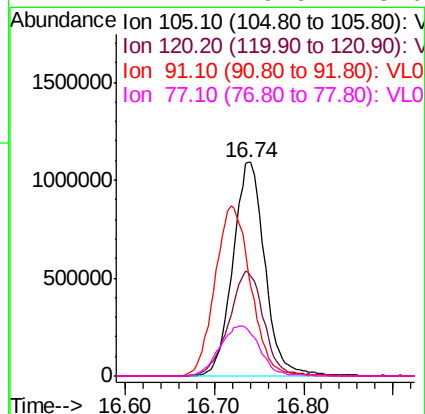
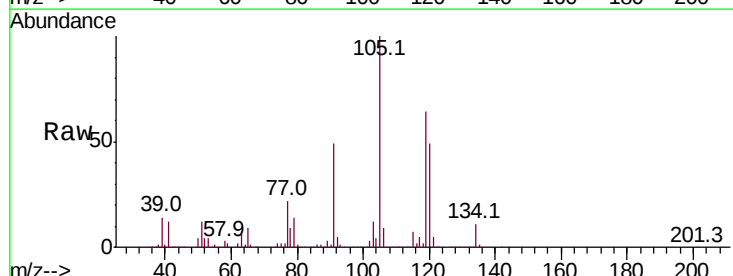
#73
 1,3,5-Trimethylbenzene
 Concen: 7.337 ppbv
 RT: 15.97
 Instrument: MSVOA_1
 Delta R.T.:
 ClientSampleId:
 Lab File: VL1119ABS01
 Acq: 19 Nov 2021 12:23

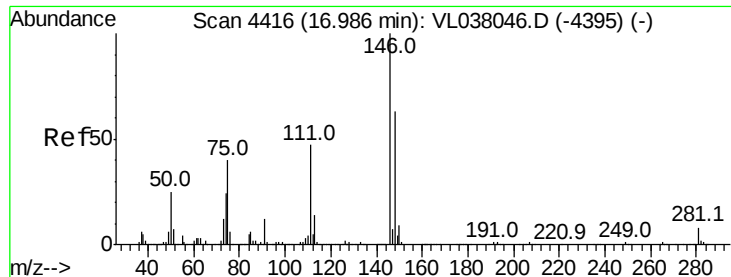
Tot Ion:105 Resp: 2655774
 Ion Ratio Lower Upper
 105 100
 120 47.0 37.8 56.6



#74
 1,2,4-Trimethylbenzene
 Concen: 7.243 ppbv
 RT: 16.74 min Scan# 4339
 Delta R.T. -0.02 min
 Lab File: VL038081.D
 Acq: 19 Nov 2021 12:23

Tgt Ion:105 Resp: 2701745
 Ion Ratio Lower Upper
 105 100
 120 48.5 40.1 60.1
 91 49.2 39.8 59.8
 77 21.4 16.6 25.0





#75

1,3-Dichlorobenzene

Concen: 7.408 ppbv

RT: 16.97

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 19 Nov 2021 12:23

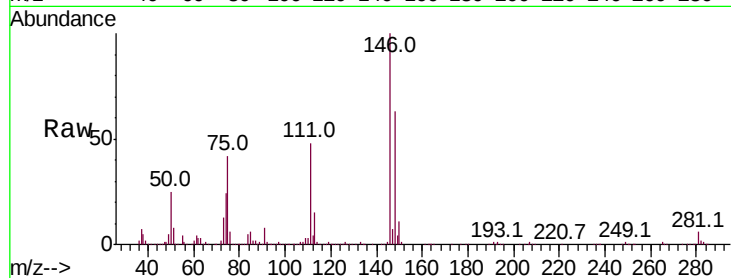
Tot Ion:146 Resp: 1517768

Ion Ratio Lower Upper

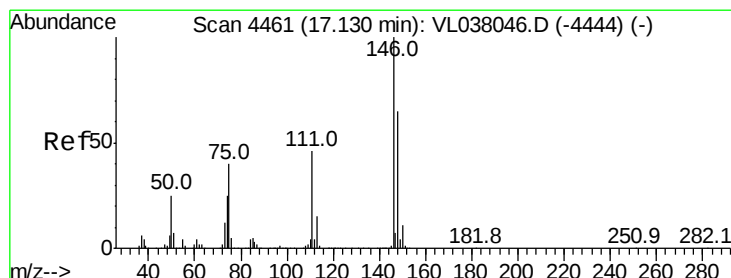
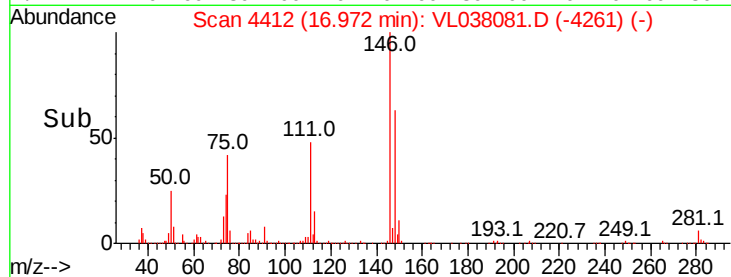
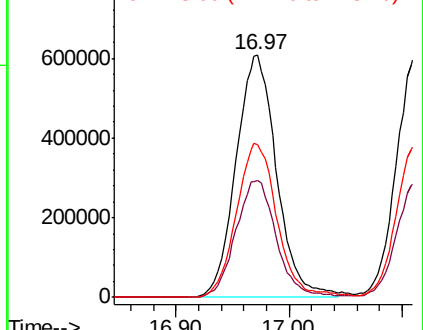
146 100

111 48.5 23.5 70.6

148 63.9 32.1 96.3



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 7.127 ppbv

RT: 17.11 min Scan# 4455

Delta R.T. -0.02 min

Lab File: VL038081.D

Acq: 19 Nov 2021 12:23

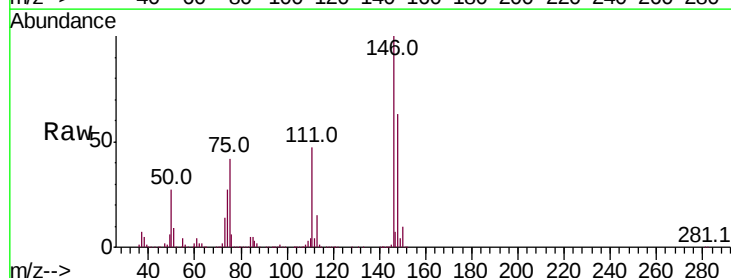
Tgt Ion:146 Resp: 1469433

Ion Ratio Lower Upper

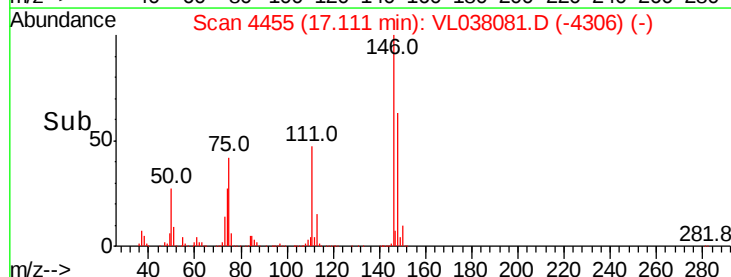
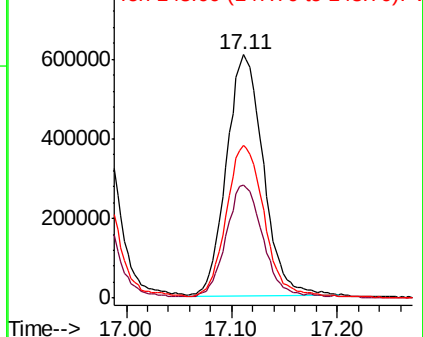
146 100

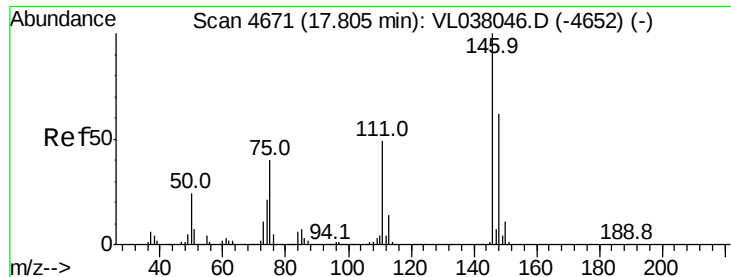
111 47.8 23.8 71.5

148 65.8 33.2 99.6



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 7.163 ppbv

RT: 17.79

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

VL1119ABS01

Acq: 19 Nov 2021 12:23

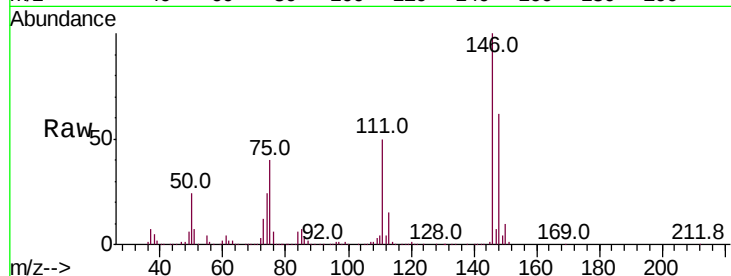
Tot Ion:146 Resp: 1420947

Ion Ratio Lower Upper

146 100

111 50.3 24.8 74.4

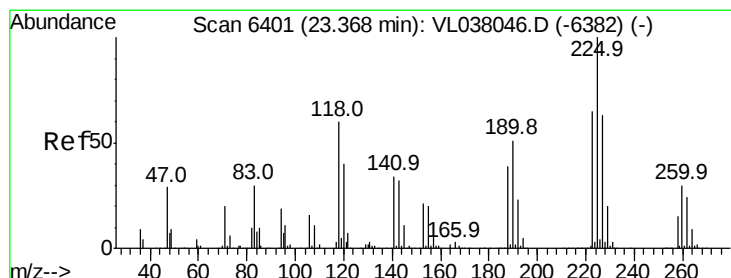
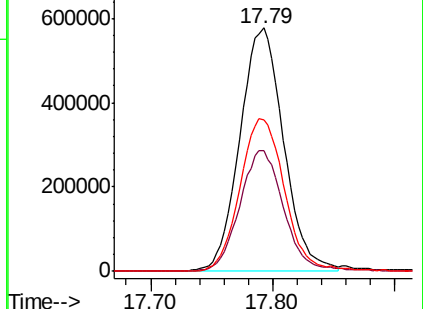
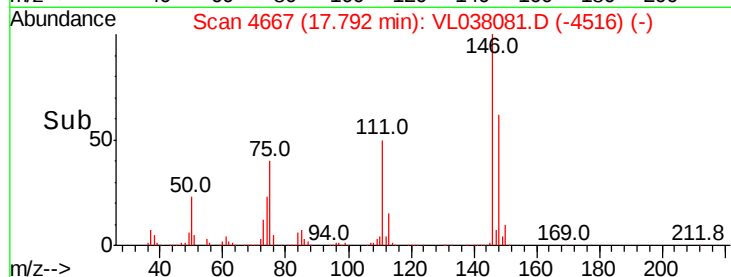
148 64.7 32.3 96.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 6.317 ppbv

RT: 23.35 min Scan# 6395

Delta R.T. -0.02 min

Lab File: VL038081.D

Acq: 19 Nov 2021 12:23

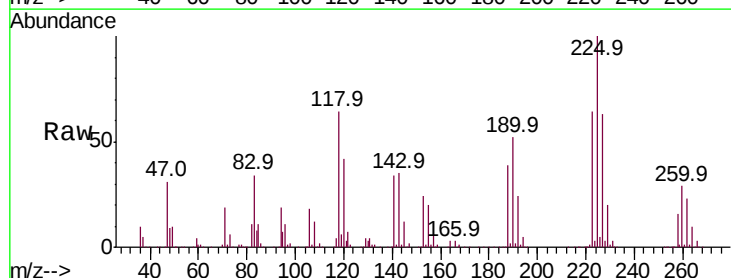
Tgt Ion:225 Resp: 782431

Ion Ratio Lower Upper

225 100

223 64.4 52.3 78.5

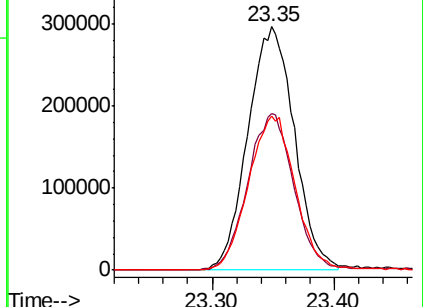
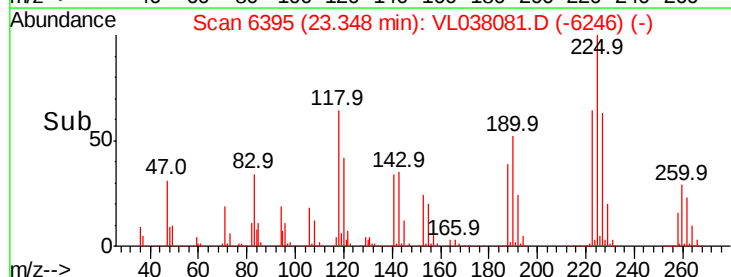
227 64.2 52.4 78.6

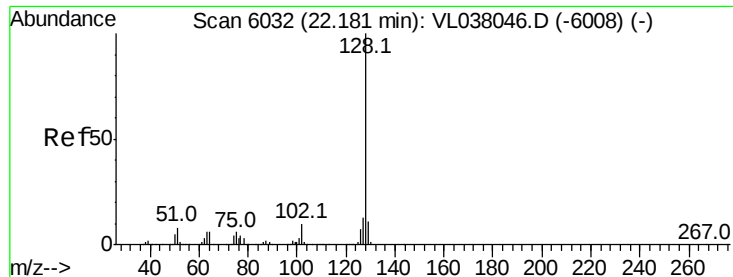


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 7.726 ppbv

RT: 22.16

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 19 Nov 2021 12:23

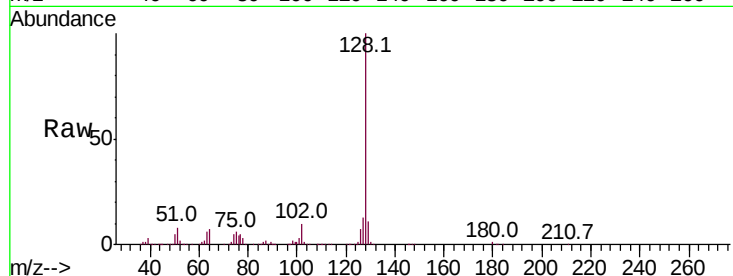
Tot Ion:128 Resp: 1517815

Ion Ratio Lower Upper

128 100

127 12.7 10.4 15.6

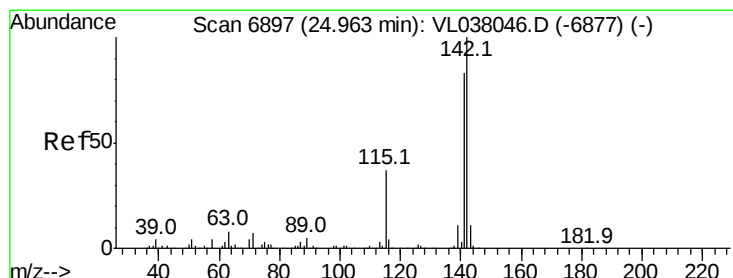
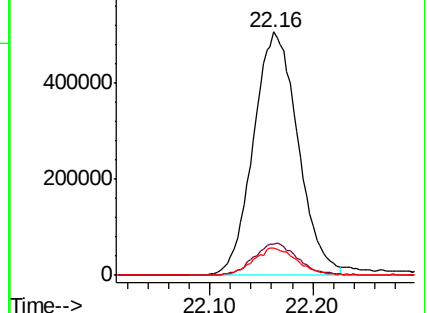
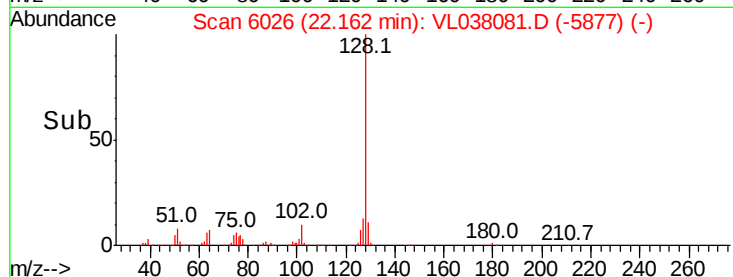
129 11.2 8.9 13.3



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene,2-methyl-

Concen: 9.020 ppbv

RT: 24.95 min Scan# 6894

Delta R.T. -0.01 min

Lab File: VL038081.D

Acq: 19 Nov 2021 12:23

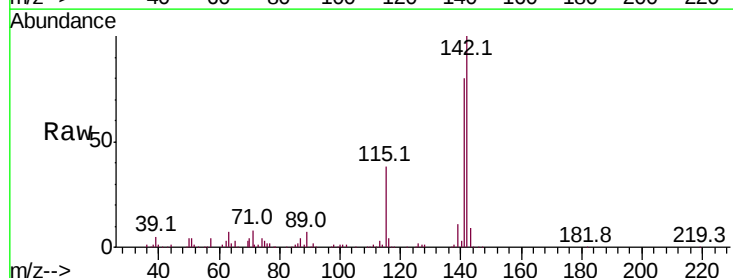
Tgt Ion:142 Resp: 379743

Ion Ratio Lower Upper

142 100

141 83.5 67.3 100.9

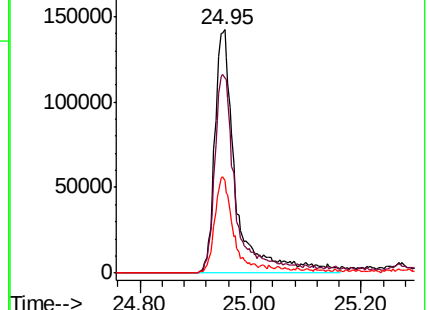
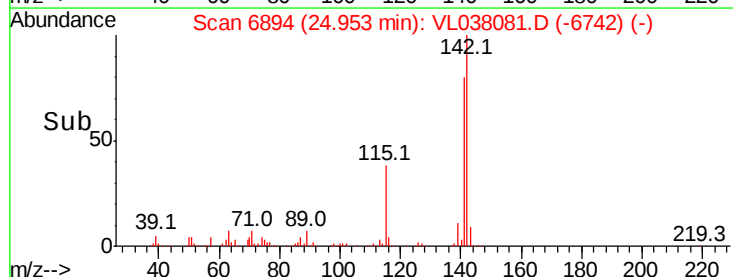
115 36.9 28.9 43.3

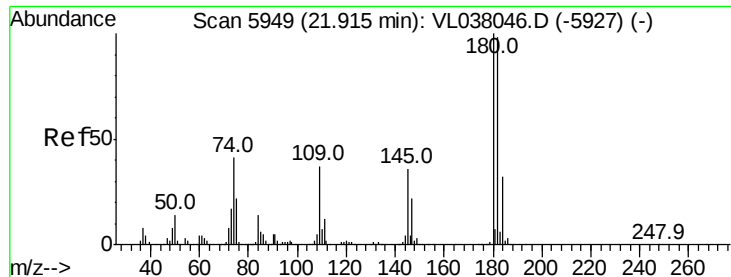


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

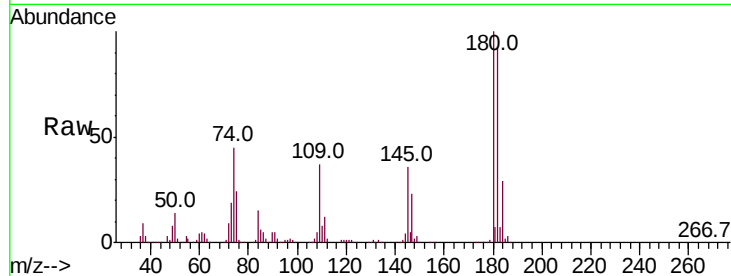
Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 7.221 ppbv
 RT: 21.90
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 VL1119ABS01
 Acq: 19 Nov 2021 12:23

Tot Ion	Ratio	Lower	Upper
180	100		
182	100.2	77.4	116.2
184	32.1	25.0	37.4



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

