

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011321\
 Data File : VL036211.D
 Acq On : 13 Jan 2021 3:16
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Quant Time: Jan 13 05:47:43 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jan 13 05:46:16 2021
 QLast Update : Wed Jan 13 05:46:16 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1571147	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3429513	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3319142	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2670780	10.03	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.30%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	400376	2.170	ppbv 99
3) Chlorodifluoromethane	2.98	51	400469	2.228	ppbv 99
4) Chloromethane	3.13	50	200380	2.265	ppbv # 86
5) Vinyl Chloride	3.25	62	189540	1.944	ppbv 91
6) Bromomethane	3.47	94	87839	1.760	ppbv 91
7) Chloroethane	3.55	64	62644	1.908	ppbv 96
8) Dichlorotetrafluoroethane	3.18	85	384200	1.915	ppbv 91
9) Propene	3.00	41	192282	2.156	ppbv 98
10) Heptane	8.11	43	508292	2.234	ppbv 98
11) Trichlorofluoromethane	3.94	101	453070	2.142	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.48	101	276087	1.955	ppbv 97
13) Ethanol	3.60	45	32879	2.662	ppbv 87
14) Bromoethene	3.73	108	118768	2.029	ppbv 99
15) Acetone	3.85	43	420239	2.260	ppbv 92
16) 1,3-Butadiene	3.32	39	188629	2.010	ppbv 99
17) tert-Butyl alcohol	4.29	59	329350	1.882	ppbv 100
18) 1,1-Dichloroethene	4.29	96	118203	1.884	ppbv # 87
19) Isopropyl Alcohol	4.01	45	16669	0.147	ppbv # 93
20) Methylene Chloride	4.34	84	120731	1.621	ppbv 95
21) Allyl Chloride	4.40	41	215919	1.791	ppbv 95
22) trans-1,2-Dichloroethene	4.88	96	113699	1.822	ppbv 92
23) Vinyl Acetate	5.07	43	547645	2.215	ppbv # 99
24) 1,1-Dichloroethane	5.00	63	357473	2.055	ppbv 100
25) Ethyl Acetate	5.67	43	831830	2.235	ppbv 100
26) Hexane	5.68	57	185087	1.106	ppbv # 1
27) Carbon Disulfide	4.55	76	274589	1.707	ppbv 98
28) Methyl tert-Butyl Ether	5.03	73	471818	2.028	ppbv 98
29) Chloroform	5.74	83	498305	2.247	ppbv 96
30) Cyclohexane	7.12	84	265445	2.125	ppbv # 82
31) cis-1,2-Dichloroethene	5.54	61	325667	2.125	ppbv 96
32) 1,1,1-Trichloroethane	6.51	97	455726	1.992	ppbv 93
34) 2-Butanone	5.24	43	479668	2.083	ppbv # 91
35) Carbon Tetrachloride	7.01	117	457751	2.288	ppbv 98
36) Benzene	6.89	78	681671	2.335	ppbv 94
37) 1,2-Dichloroethane	6.30	62	397837	2.338	ppbv 99
38) Trichloroethene	7.83	130	205736	1.908	ppbv 97
39) 1,2-Dichloropropane	7.61	63	268067	2.319	ppbv 97
40) 1,4-Dioxane	7.83	88	43714	1.200	ppbv # 1
41) Tetrahydrofuran	6.05	42	280705	2.079	ppbv 99
42) Bromodichloromethane	7.78	83	528687	2.353	ppbv 96
43) Methyl Methacrylate	8.01	69	292363	2.334	ppbv 98

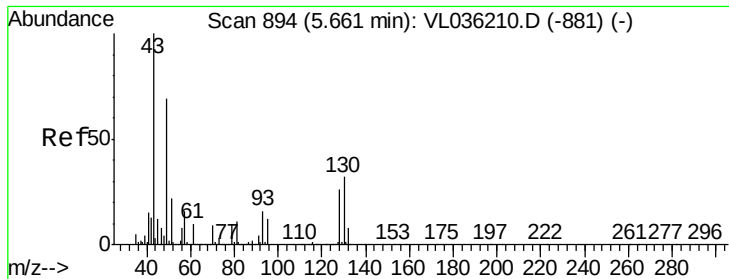
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011321\
 Data File : VL036211.D
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 Operator : SY/AP
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Quant Time: Jan 13 05:47:43 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jan 13 05:46:16 2021
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	1265611	2.403	ppbv	99
45) t-1,3-Dichloropropene	9.27	75	143370	1.119	ppbv	100
46) cis-1,3-Dichloropropene	8.69	75	159379	0.986	ppbv	94
47) 1,1,2-Trichloroethane	9.47	97	270061	2.422	ppbv	94
48) Dibromochloromethane	10.30	129	395568	2.370	ppbv	98
49) Bromoform	13.04	173	323376	2.450	ppbv	98
50) 4-Methyl-2-Pentanone	8.74	43	469726	1.371	ppbv #	55
51) 2-Hexanone	10.14	43	650739	2.398	ppbv	97
52) Tetrachloroethene	11.22	164	210200	2.003	ppbv	95
53) Toluene	9.80	91	771330	2.355	ppbv	99
54) 1,2-Dibromoethane	10.61	107	389291	2.330	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.12	131	320511	2.331	ppbv #	1
57) Chlorobenzene	12.14	112	556828	2.379	ppbv	97
58) Ethyl Benzene	12.71	91	1087082	2.374	ppbv	99
59) m/p-Xylene	12.99	91	861841	2.239	ppbv #	25
60) o-Xylene	13.69	91	884684	2.435	ppbv	98
61) Styrene	13.53	104	553003	2.345	ppbv	98
62) Isopropylbenzene	14.67	105	1331133	2.463	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.67	83	630423	2.555	ppbv	98
64) n-propylbenzene	15.55	120	324102	2.477	ppbv	84
65) tert-Butylbenzene	16.74	119	1182762	2.661	ppbv	100
66) Benzyl Chloride	16.99	91	263357	2.309	ppbv	98
67) sec-Butylbenzene	17.29	105	1722041	2.741	ppbv	98
69) p-Isopropyltoluene	17.65	119	1381269	2.761	ppbv	99
70) n-Butylbenzene	18.55	91	1476713	2.935	ppbv	99
71) 2-Chlorotoluene	15.45	91	1039150	2.517	ppbv	99
72) 4-Ethyltoluene	15.83	105	1017685	2.554	ppbv	98
73) 1,3,5-Trimethylbenzene	16.00	105	955543	2.505	ppbv	98
74) 1,2,4-Trimethylbenzene	16.76	105	1017160	2.659	ppbv	96
75) 1,3-Dichlorobenzene	17.00	146	529266	2.742	ppbv	99
76) 1,4-Dichlorobenzene	17.13	146	499982	2.544	ppbv	99
77) 1,2-Dichlorobenzene	17.82	146	502531	2.686	ppbv	98
78) Hexachloro-1,3-Butadiene	23.38	225	407966	2.761	ppbv	95
79) Naphthalene	22.20	128	247357	1.208	ppbv	98
80) Naphthalene, 2-methyl-	24.99	142	101754	2.433	ppbv #	93
81) 1,2,4-Trichlorobenzene	21.92	180	37470	0.288	ppbv #	1

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

Instrument :

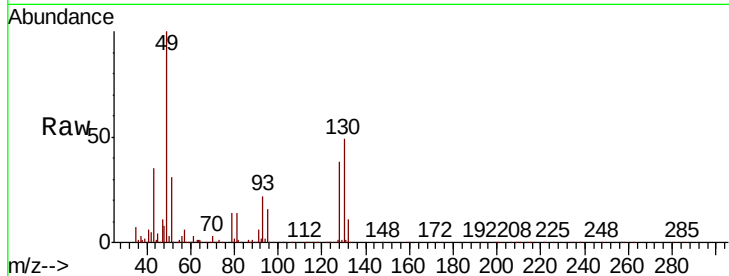
MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 49 Resp: 1571147

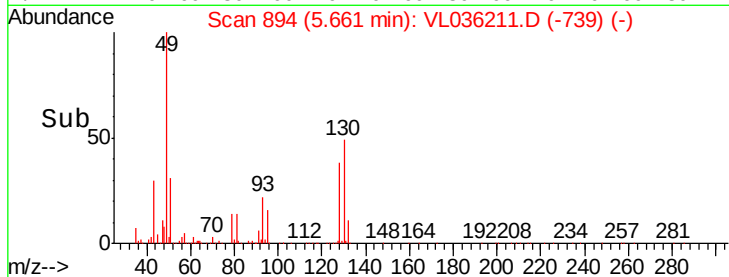
Ion	Ratio	Lower	Upper
49	100		
128	40.2	20.1	60.2
130	51.8	25.3	75.9



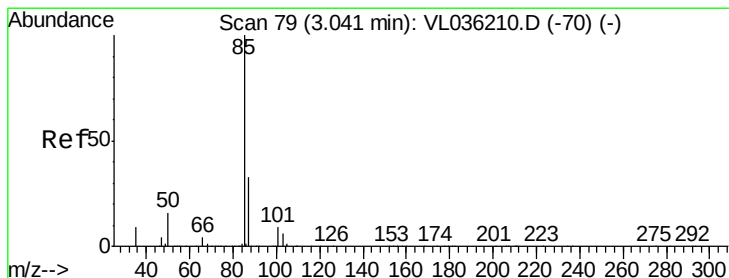
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



Time-->



#2

Dichlorodifluoromethane

Concen: 2.170 ppbv

RT: 3.04 min Scan# 79

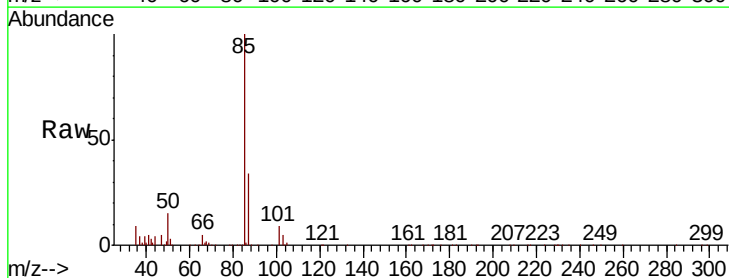
Delta R.T. -0.00 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

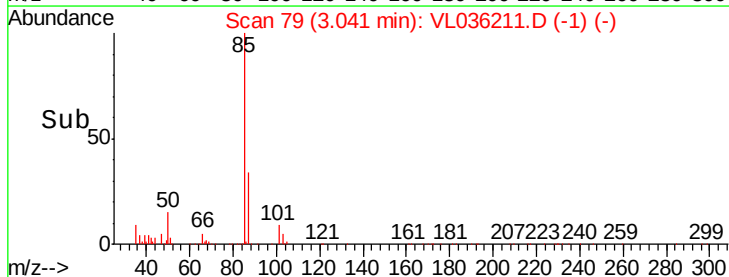
Tgt Ion: 85 Resp: 400376

Ion	Ratio	Lower	Upper
85	100		
87	33.6	26.4	39.6

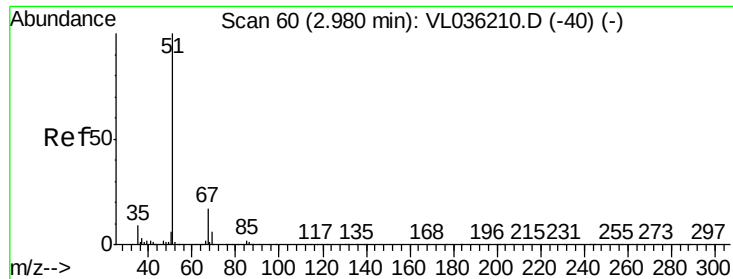


Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0



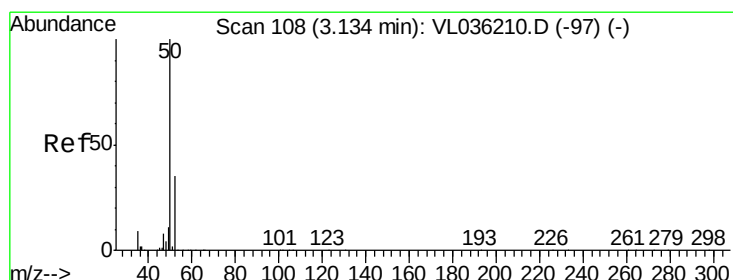
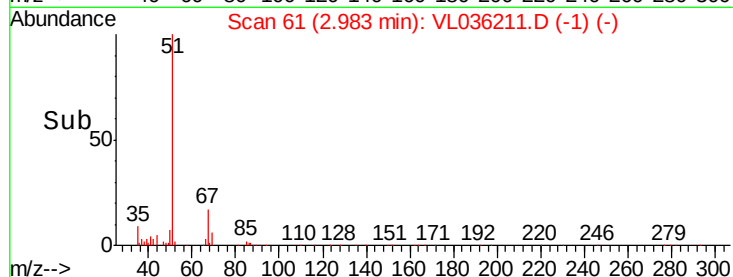
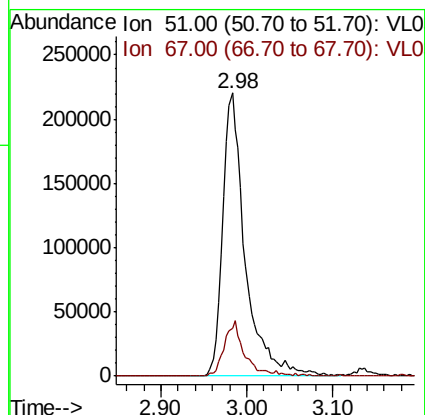
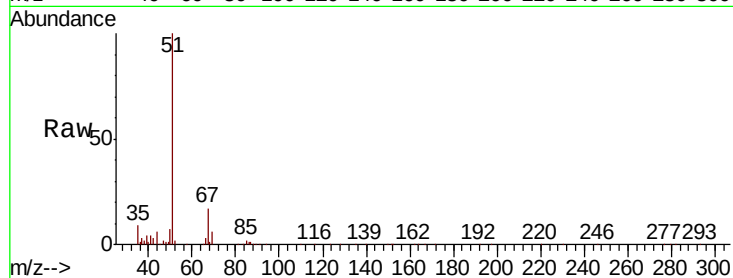
Time-->



#3
Chlorodifluoromethane
Concen: 2.228 ppbv
RT: 2.98 min Scan# 61
Delta R.T. 0.00 min
Lab File: VL036211.D
Acq: 13 Jan 2021 3:16

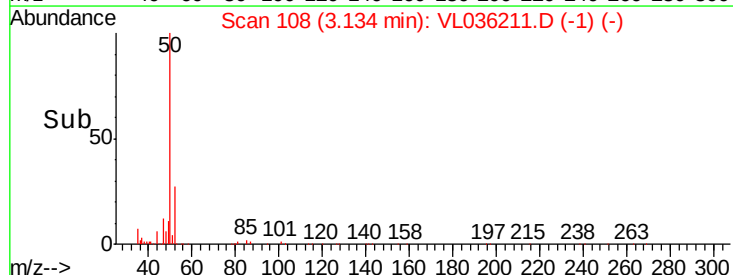
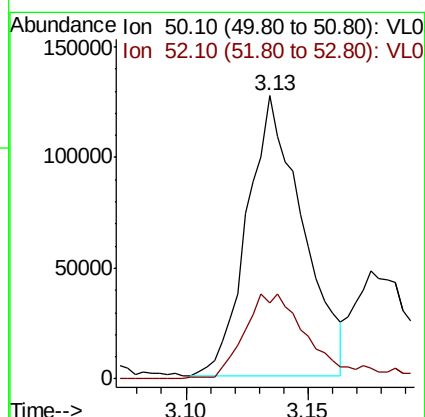
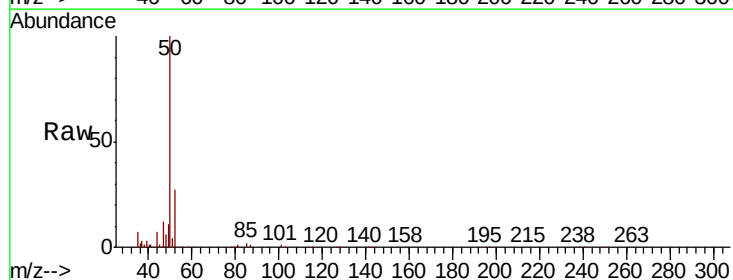
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

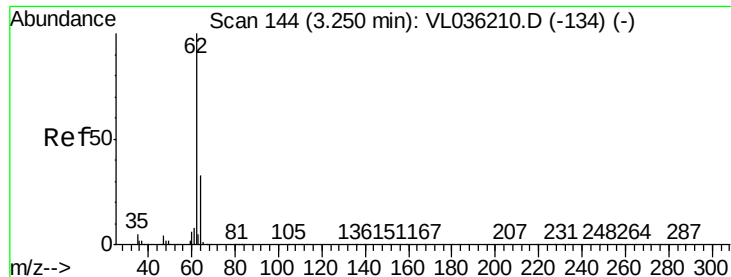
Tot Ion: 51 Resp: 400469
Ion Ratio Lower Upper
51 100
67 18.0 14.0 21.0



#4
Chloromethane
Concen: 2.265 ppbv
RT: 3.13 min Scan# 108
Delta R.T. -0.00 min
Lab File: VL036211.D
Acq: 13 Jan 2021 3:16

Tgt Ion: 50 Resp: 200380
Ion Ratio Lower Upper
50 100
52 26.4 27.8 41.8#





#5

Vinyl Chloride

Concen: 1.944 ppbv

RT: 3.25 min Scan# 145

Delta R.T. 0.00 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

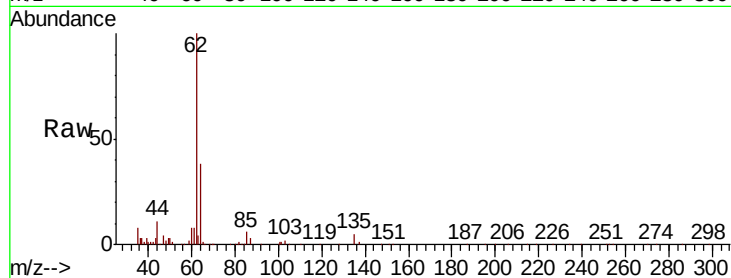
VSTDIC002

Tot Ion: 62 Resp: 189540

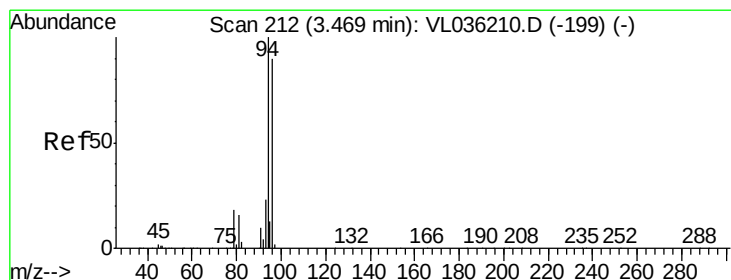
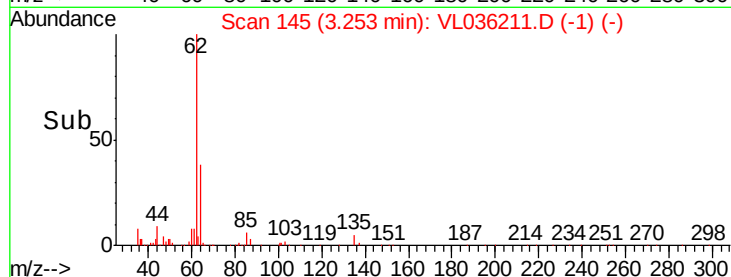
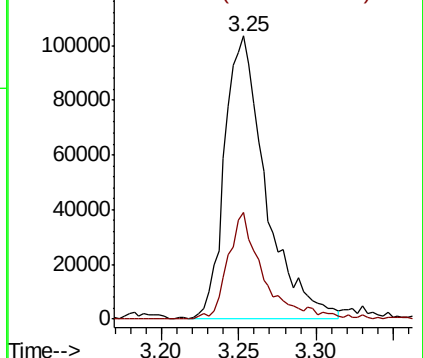
Ion Ratio Lower Upper

62 100

64 37.8 26.2 39.2



Abundance Ion 62.10 (61.80 to 62.80): VL0
Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 1.760 ppbv

RT: 3.47 min Scan# 212

Delta R.T. -0.00 min

Lab File: VL036211.D

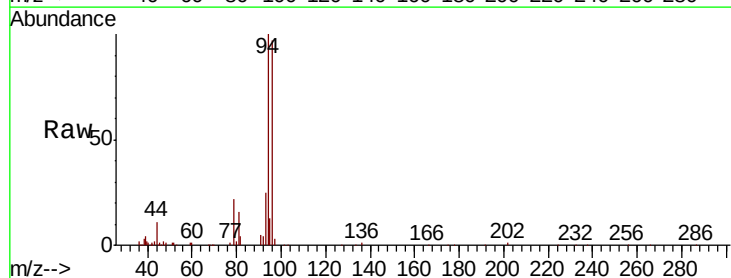
Acq: 13 Jan 2021 3:16

Tgt Ion: 94 Resp: 87839

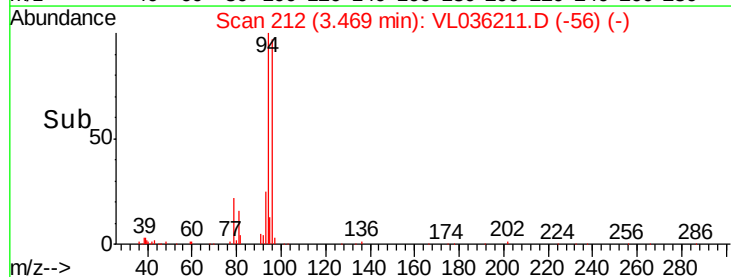
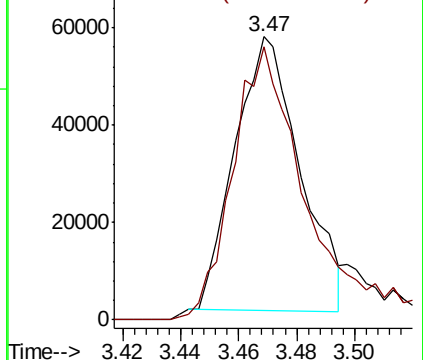
Ion Ratio Lower Upper

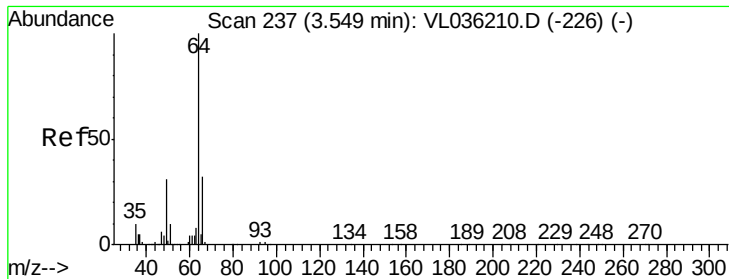
94 100

96 98.5 71.9 107.9



Abundance Ion 94.00 (93.70 to 94.70): VL0
Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 1.908 ppbv

RT: 3.55 min Scan# 238

Delta R.T. 0.00 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

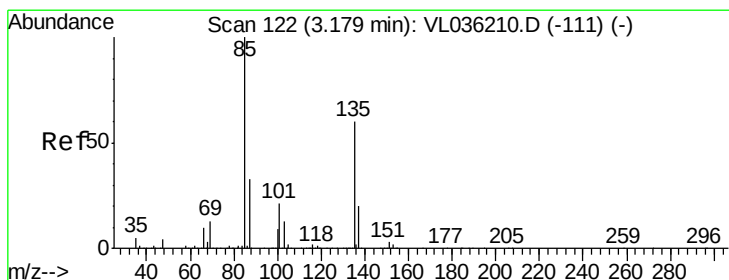
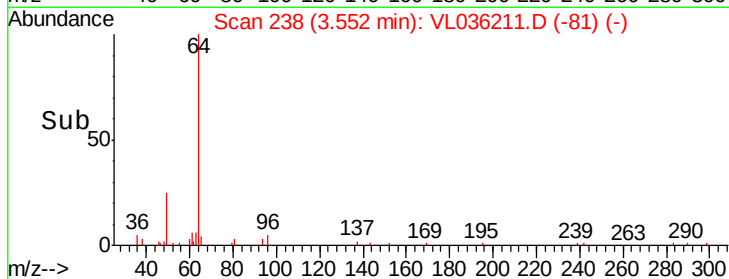
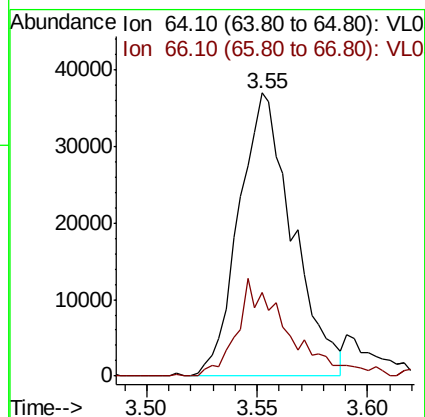
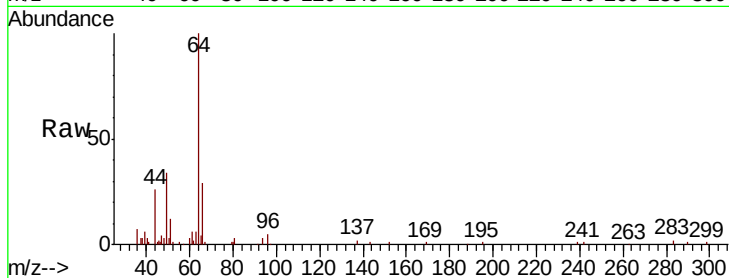
VSTDIC002

Tot Ion: 64 Resp: 62644

Ion Ratio Lower Upper

64 100

66 29.4 25.2 37.8



#8

Dichlorotetrafluoroethane

Concen: 1.915 ppbv

RT: 3.18 min Scan# 122

Delta R.T. -0.00 min

Lab File: VL036211.D

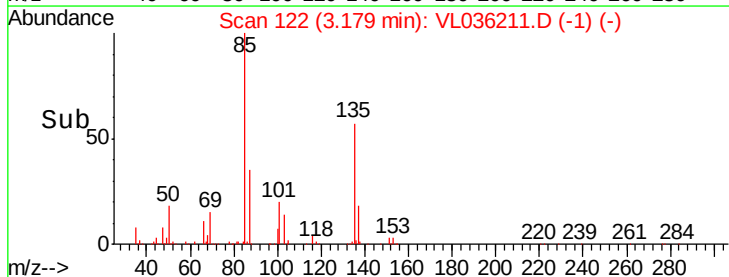
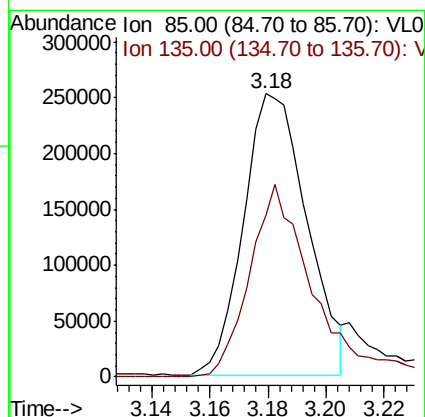
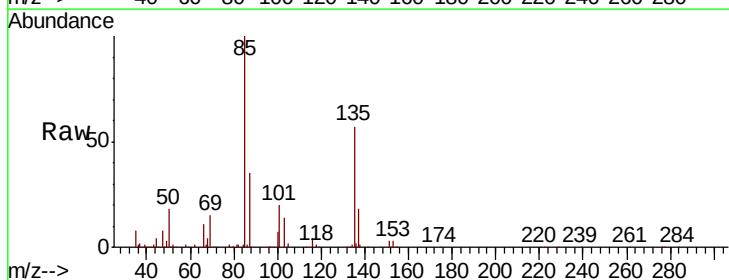
Acq: 13 Jan 2021 3:16

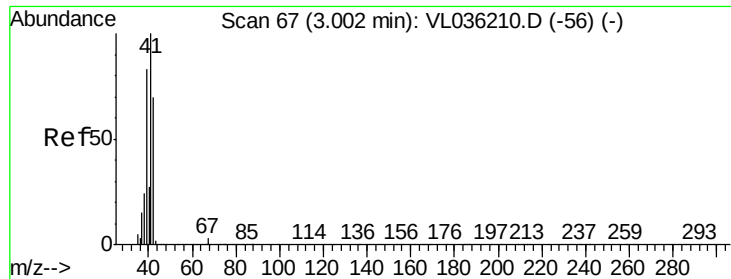
Tgt Ion: 85 Resp: 384200

Ion Ratio Lower Upper

85 100

135 71.6 51.5 77.3





#9

Propene

Concen: 2.156 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.00 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

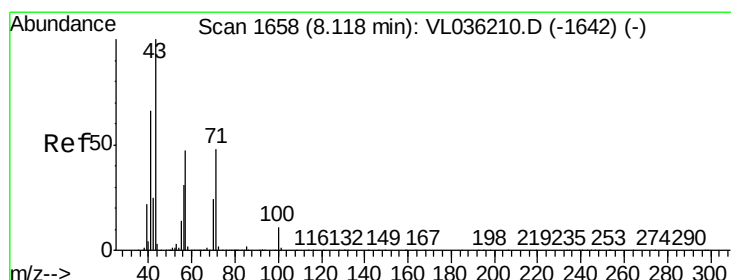
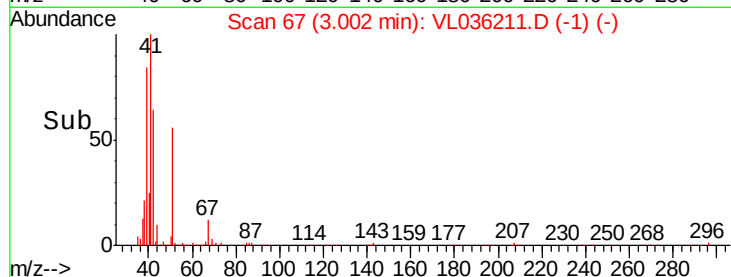
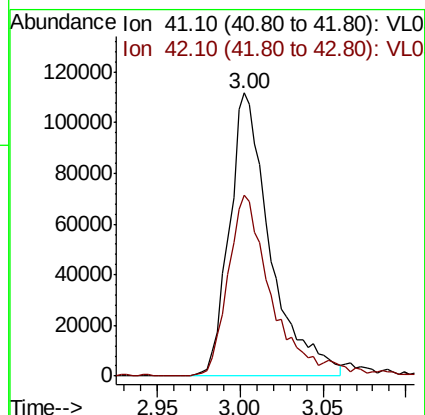
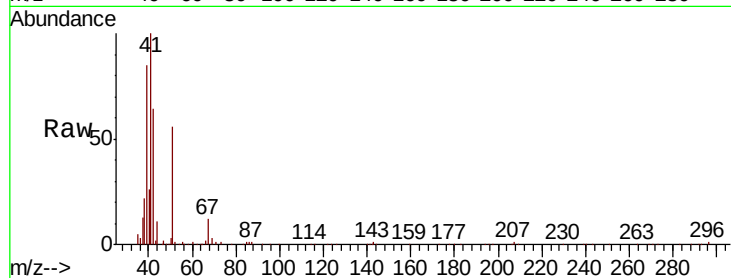
VSTDIC002

Tot Ion: 41 Resp: 192282

Ion Ratio Lower Upper

41 100

42 69.3 57.1 85.7



#10

Heptane

Concen: 2.234 ppbv

RT: 8.11 min Scan# 1657

Delta R.T. -0.00 min

Lab File: VL036211.D

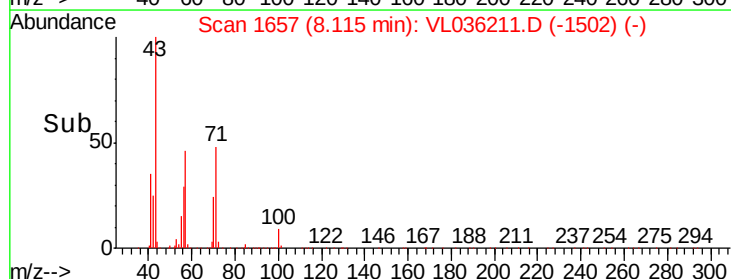
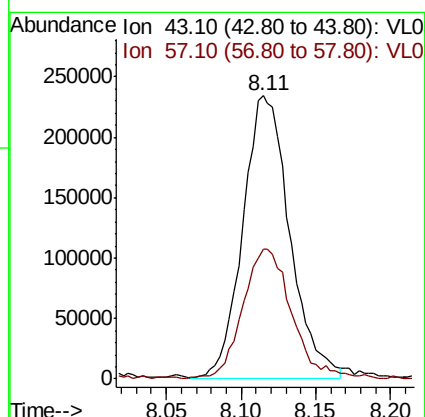
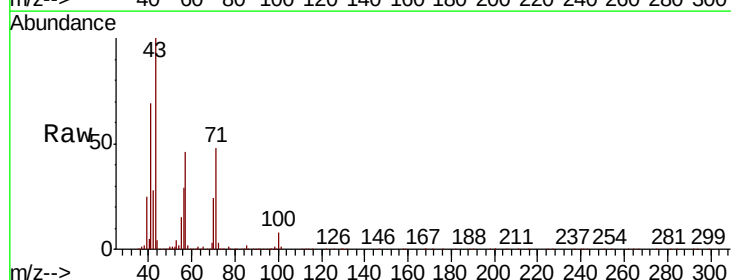
Acq: 13 Jan 2021 3:16

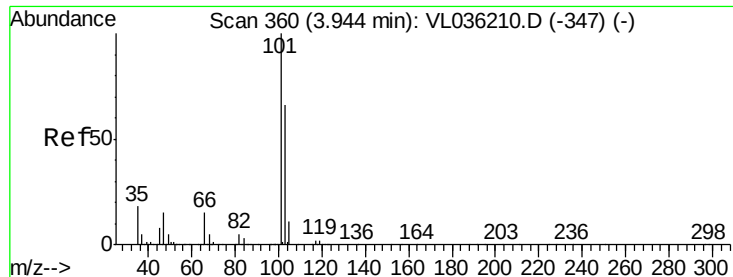
Tgt Ion: 43 Resp: 508292

Ion Ratio Lower Upper

43 100

57 49.1 38.1 57.1





#11

Trichlorofluoromethane

Concen: 2.142 ppbv

RT: 3.94 min Scan# 360

Delta R.T. -0.00 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

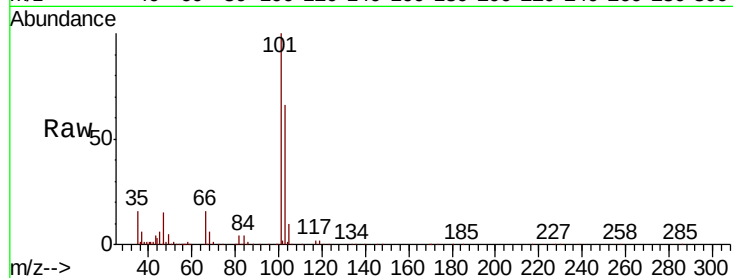
VSTDIC002

Tot Ion:101 Resp: 453070

Ion Ratio Lower Upper

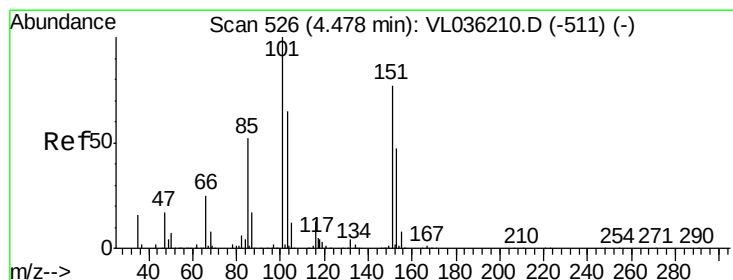
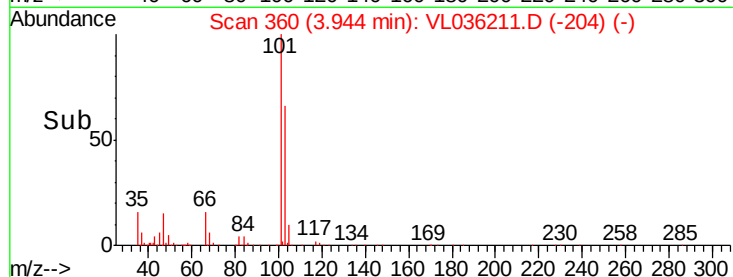
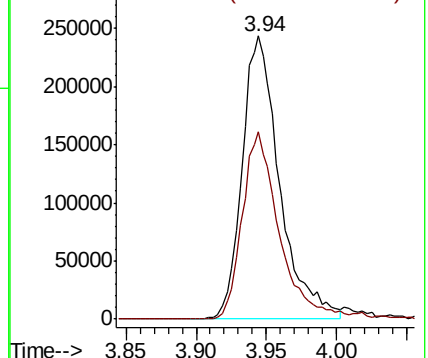
101 100

103 66.1 52.6 78.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 1.955 ppbv

RT: 4.48 min Scan# 526

Delta R.T. -0.00 min

Lab File: VL036211.D

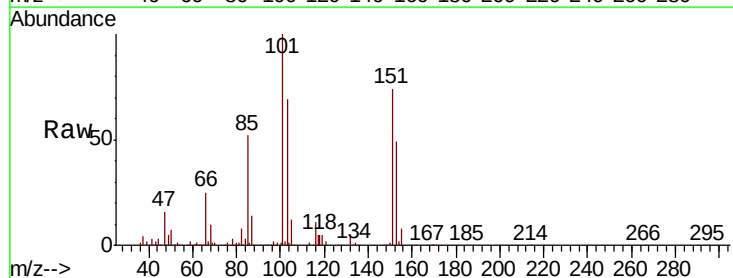
Acq: 13 Jan 2021 3:16

Tgt Ion:101 Resp: 276087

Ion Ratio Lower Upper

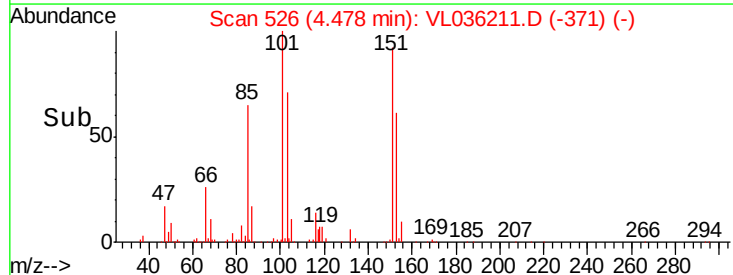
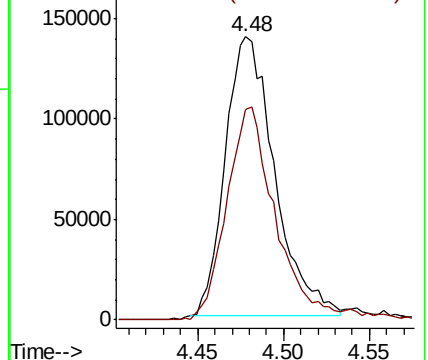
101 100

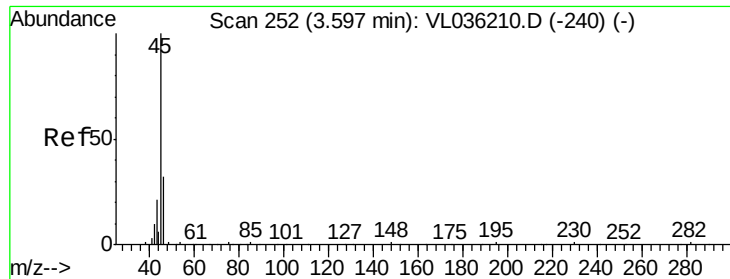
151 77.3 59.8 89.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 2.662 ppbv

RT: 3.60 min Scan# 254

Delta R.T. 0.01 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

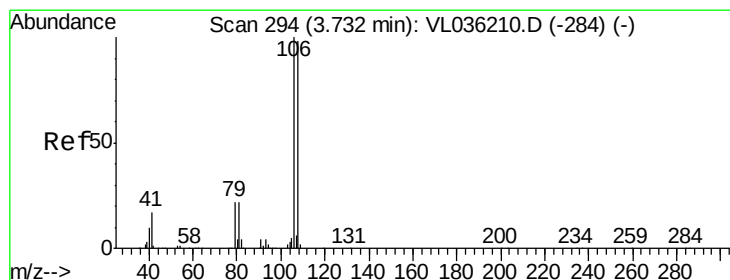
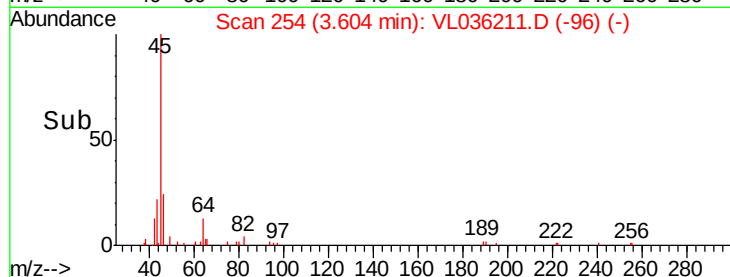
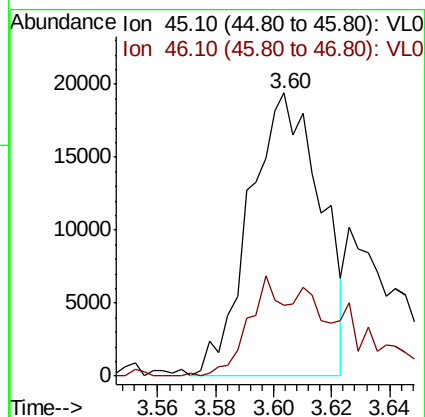
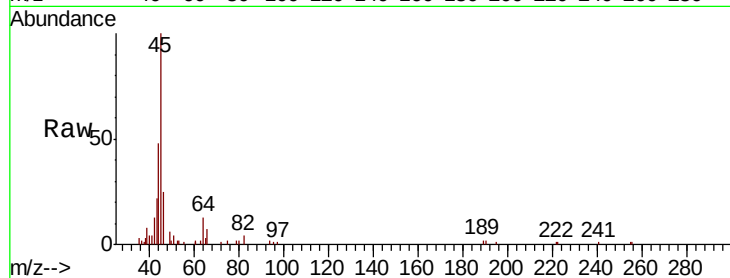
VSTDIC002

Tot Ion: 45 Resp: 32879

Ion Ratio Lower Upper

45 100

46 56.9 19.2 77.0



#14

Bromoethene

Concen: 2.029 ppbv

RT: 3.73 min Scan# 294

Delta R.T. -0.00 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

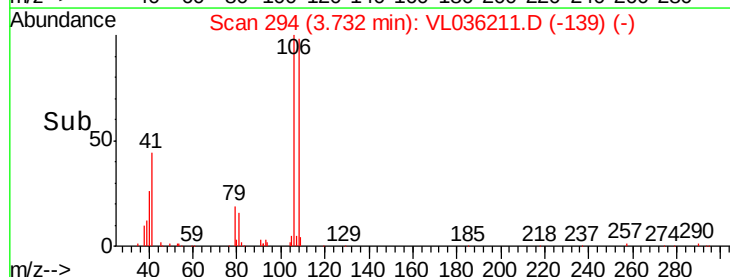
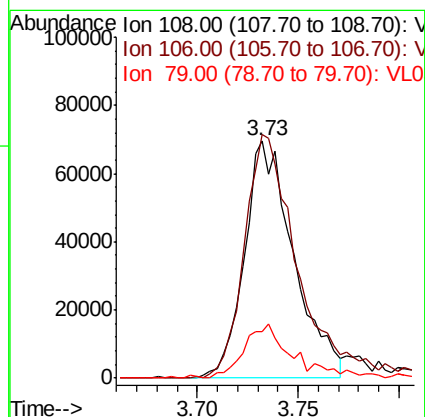
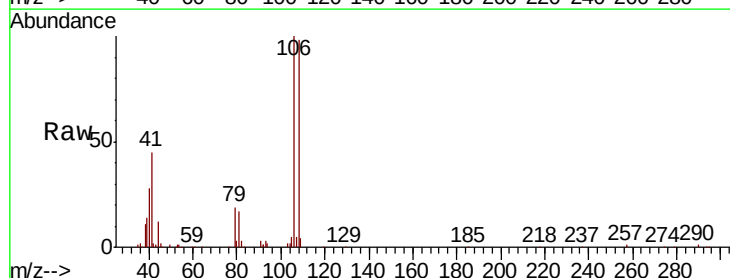
Tgt Ion: 108 Resp: 118768

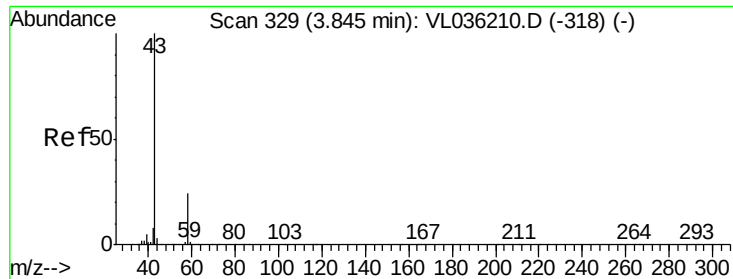
Ion Ratio Lower Upper

108 100

106 115.1 91.4 137.2

79 24.3 18.3 27.5

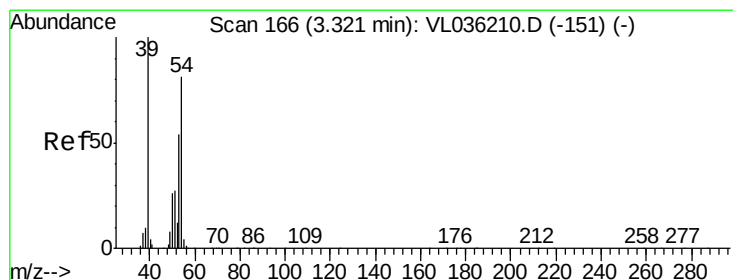
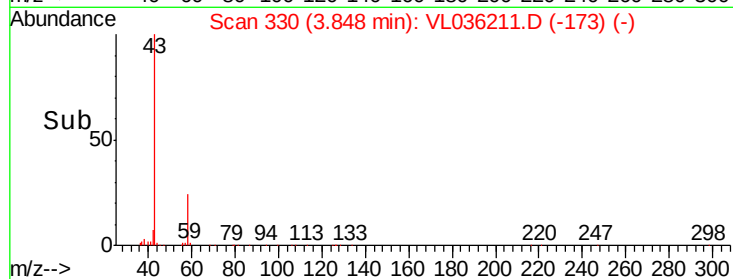
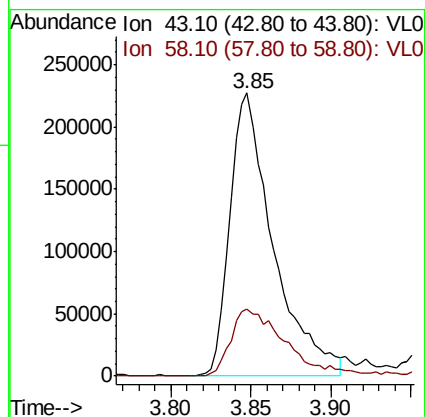
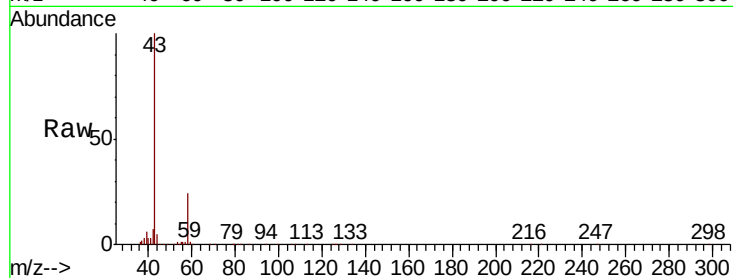




#15
Acetone
Concen: 2.260 ppbv
RT: 3.85 min Scan# 330
Delta R.T. 0.00 min
Lab File: VL036211.D
Acq: 13 Jan 2021 3:16

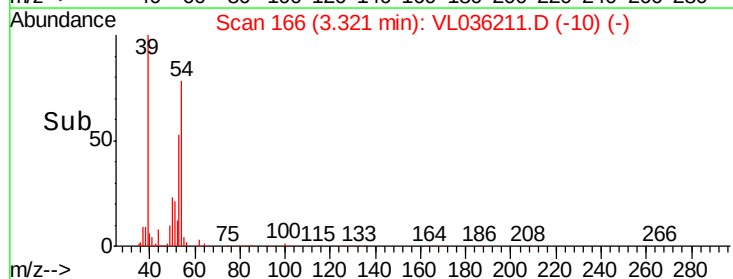
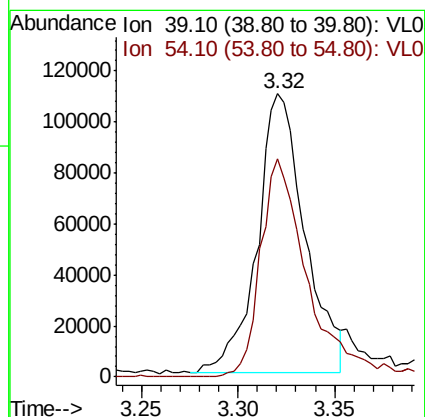
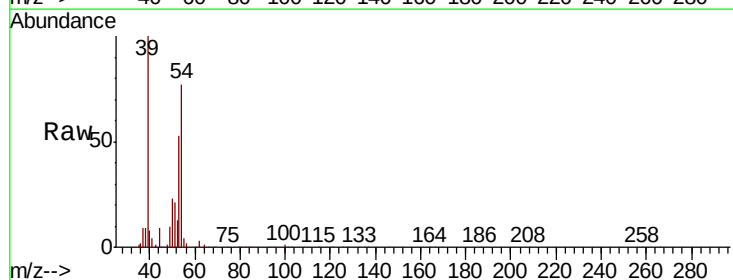
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

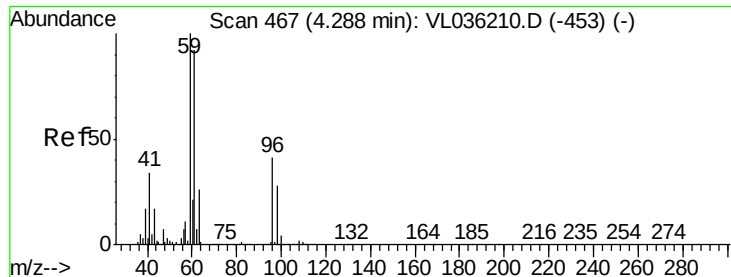
Tot Ion: 43 Resp: 420239
Ion Ratio Lower Upper
43 100
58 30.2 20.9 31.3



#16
1,3-Butadiene
Concen: 2.010 ppbv
RT: 3.32 min Scan# 166
Delta R.T. -0.00 min
Lab File: VL036211.D
Acq: 13 Jan 2021 3:16

Tgt Ion: 39 Resp: 188629
Ion Ratio Lower Upper
39 100
54 77.6 62.5 93.7





#17

tert-Butyl alcohol

Concen: 1.882 ppbv

RT: 4.29 min Scan# 467

Delta R.T. -0.00 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

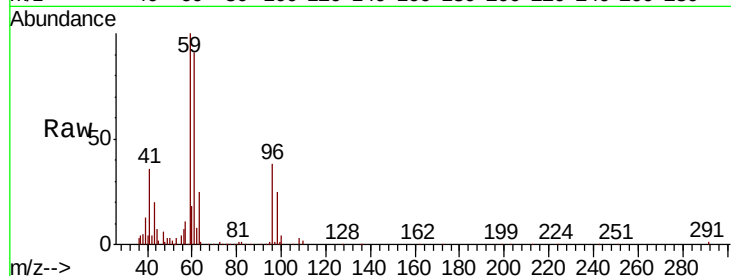
VSTDIC002

Tot Ion: 59 Resp: 329350

Ion Ratio Lower Upper

59 100

57 11.5 9.2 13.8



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

150000

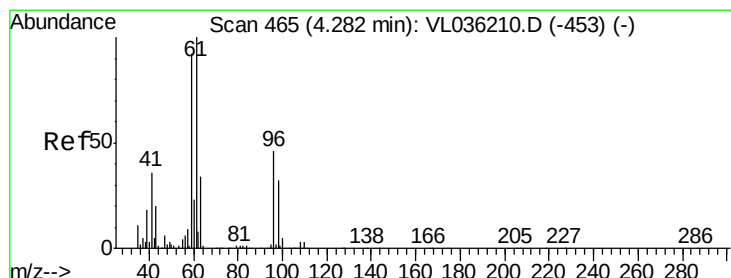
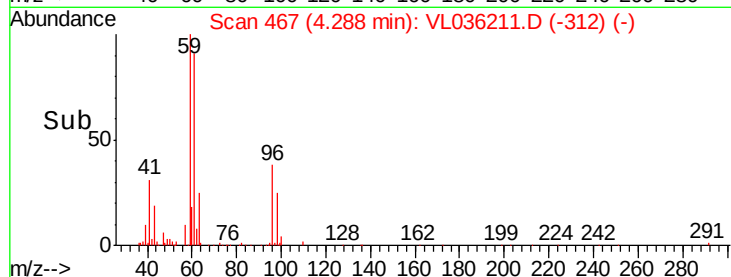
100000

50000

0

4.25 4.30 4.35

Time-->



#18

1,1-Dichloroethene

Concen: 1.884 ppbv

RT: 4.29 min Scan# 466

Delta R.T. 0.00 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

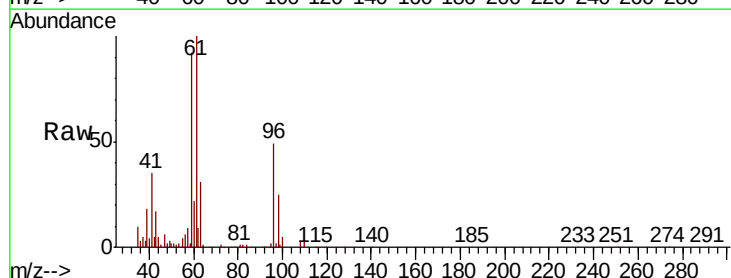
Tgt Ion: 96 Resp: 118203

Ion Ratio Lower Upper

96 100

61 200.7 173.4 260.0

98 50.1 54.9 82.3#



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

200000

150000

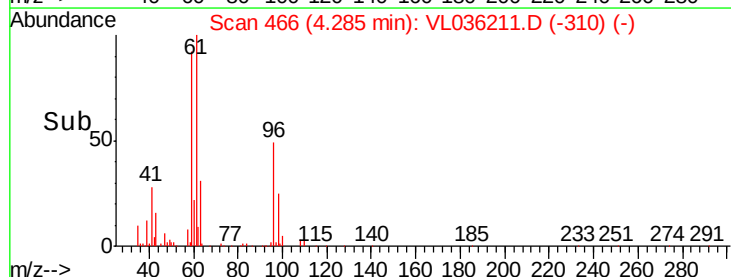
100000

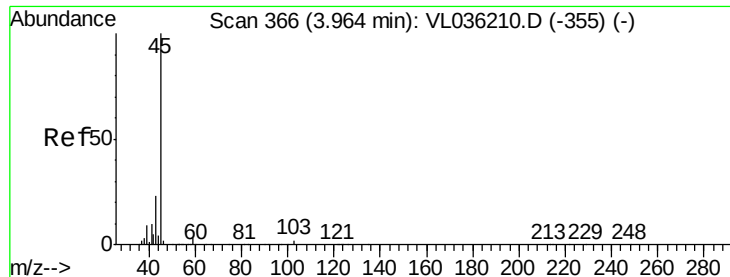
50000

0

4.25 4.30

Time-->





#19

Isopropyl Alcohol

Concen: 0.147 ppbv

RT: 4.01 min Scan# 380

Delta R.T. 0.04 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

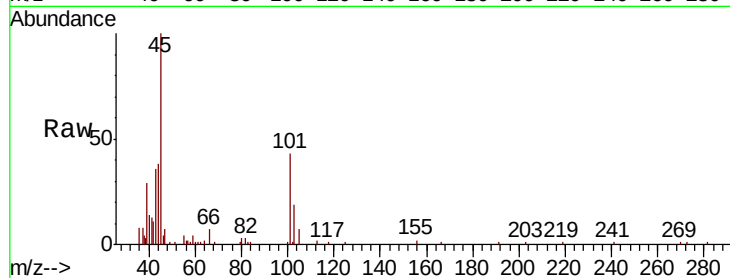
VSTDIC002

Tot Ion: 45 Resp: 16669

Ion Ratio Lower Upper

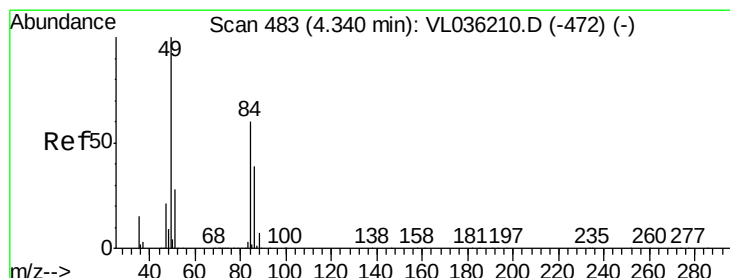
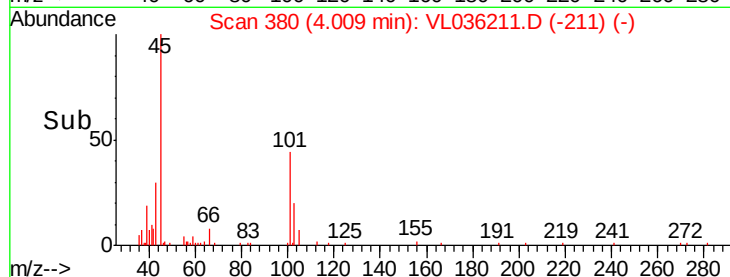
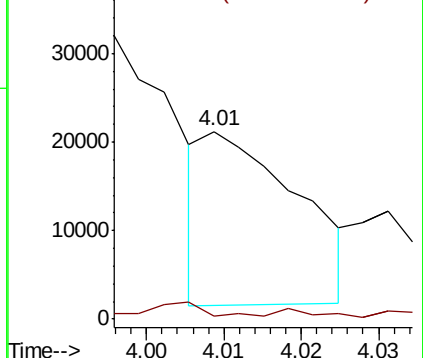
45 100

58 0.0 1.9 2.9#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 1.621 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.00 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

Tgt Ion: 84 Resp: 120731

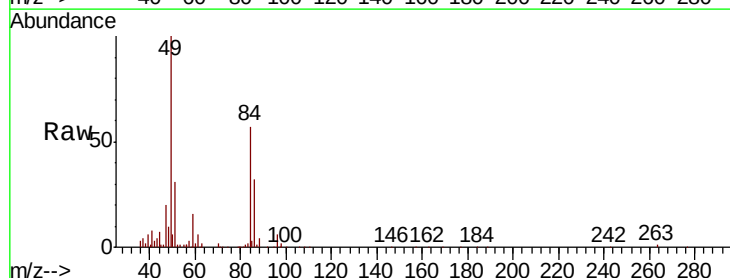
Ion Ratio Lower Upper

84 100

49 170.2 134.1 201.1

51 49.8 37.4 56.0

86 56.0 52.6 78.8

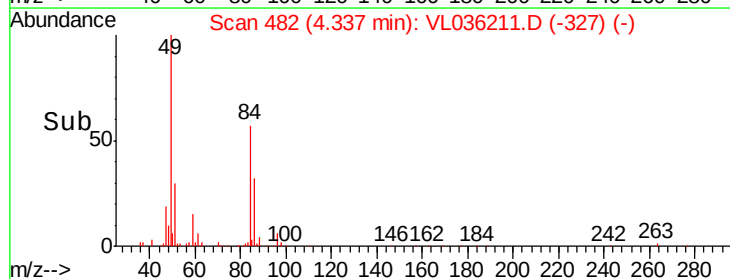
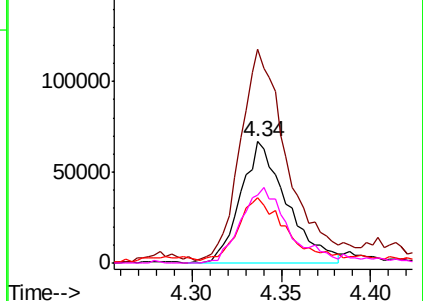


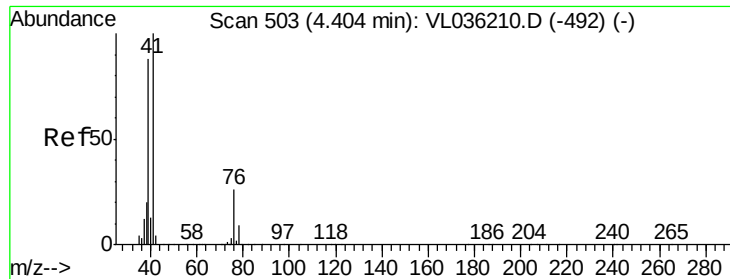
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

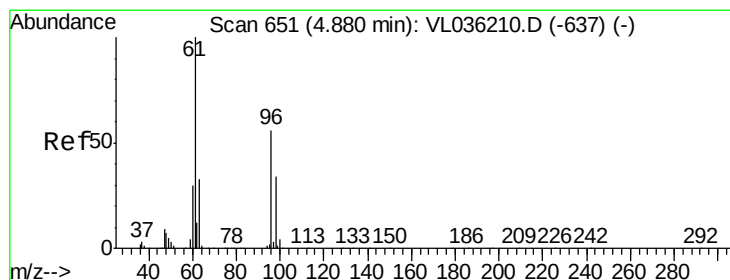
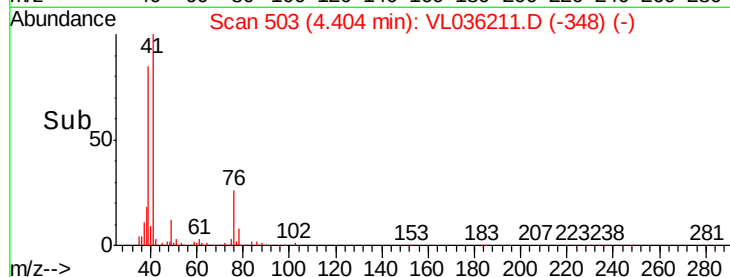
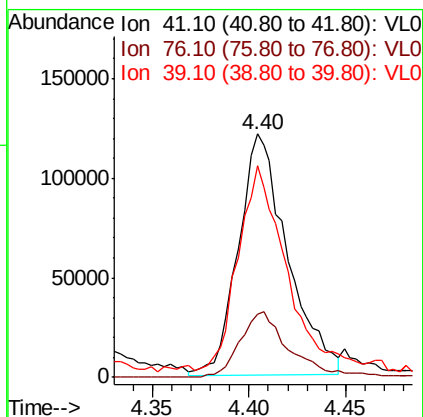
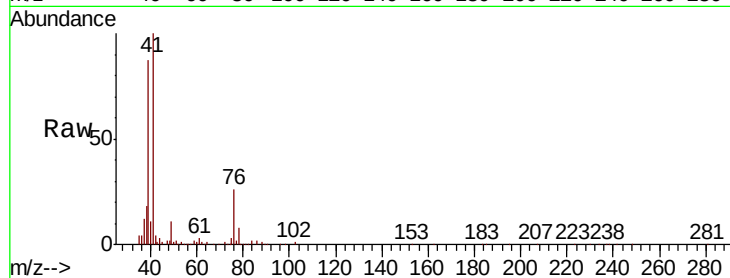




#21
Allvl Chloride
Concen: 1.791 ppbv
RT: 4.40 min Scan# 503
Delta R.T. -0.00 min
Lab File: VL036211.D
Acq: 13 Jan 2021 3:16

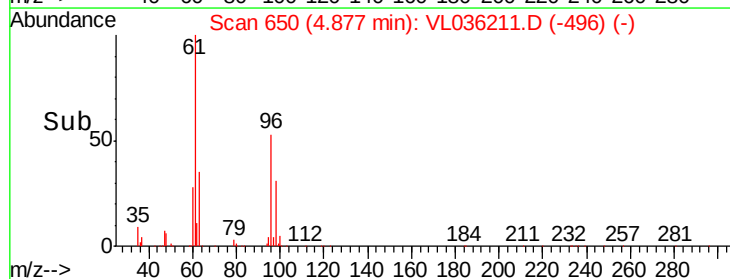
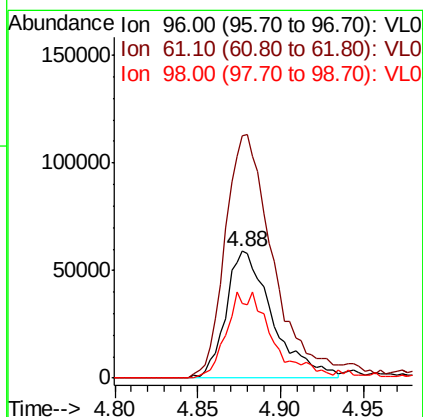
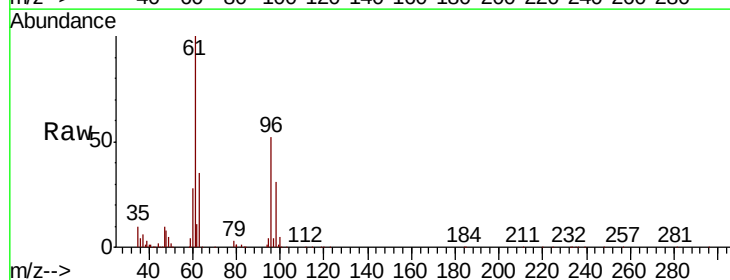
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

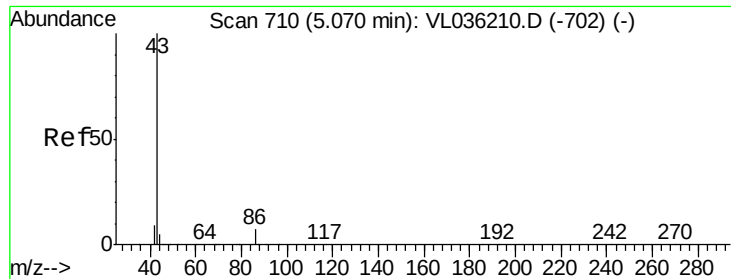
Tot Ion: 41 Resp: 215919
Ion Ratio Lower Upper
41 100
76 27.5 20.5 30.7
39 90.1 67.8 101.8



#22
trans-1,2-Dichloroethene
Concen: 1.822 ppbv
RT: 4.88 min Scan# 650
Delta R.T. -0.00 min
Lab File: VL036211.D
Acq: 13 Jan 2021 3:16

Tgt Ion: 96 Resp: 113699
Ion Ratio Lower Upper
96 100
61 191.5 142.7 214.1
98 58.3 48.7 73.1

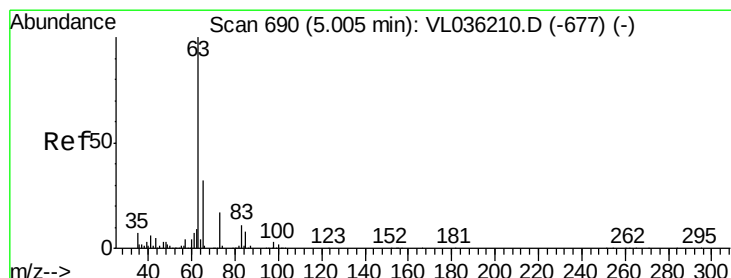
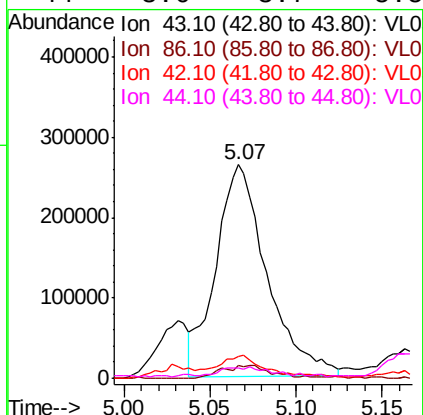
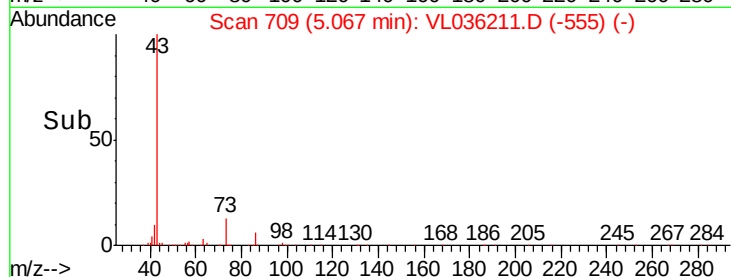
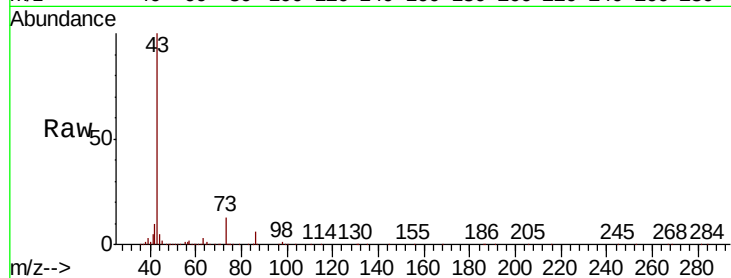




#23
 Vinyl Acetate
 Concen: 2.215 ppbv
 RT: 5.07 min Scan# 709
 Delta R.T. -0.00 min
 Lab File: VL036211.D
 Acq: 13 Jan 2021 3:16

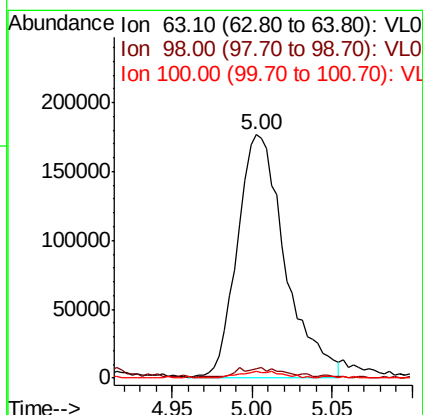
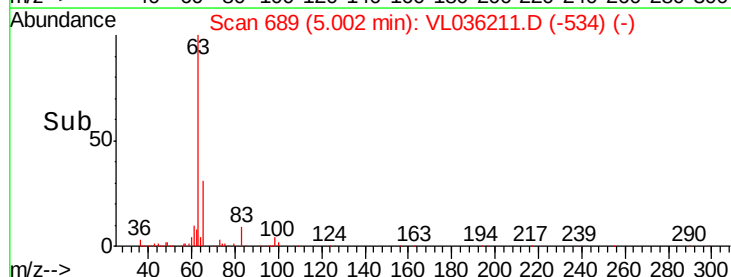
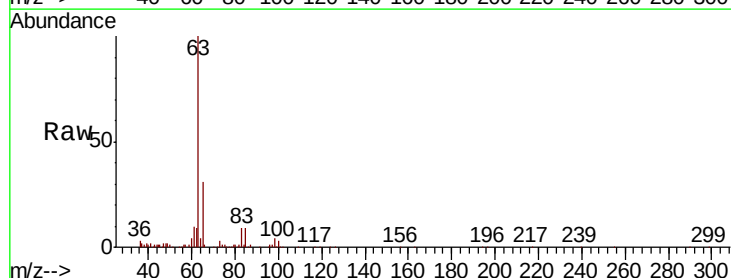
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

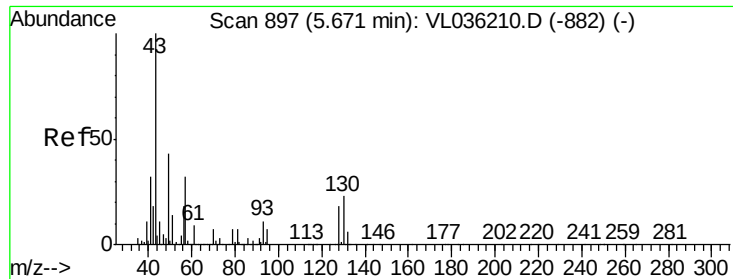
Tot Ion:	43	Resp:	547645
Ion	Ratio	Lower	Upper
43	100		
86	6.1	4.9	7.3
42	10.0	7.8	11.6
44	3.6	3.7	5.5#



#24
 1,1-Dichloroethane
 Concen: 2.055 ppbv
 RT: 5.00 min Scan# 689
 Delta R.T. -0.00 min
 Lab File: VL036211.D
 Acq: 13 Jan 2021 3:16

Tgt Ion:	63	Resp:	357473
Ion	Ratio	Lower	Upper
63	100		
98	3.2	1.7	5.1
100	2.2	1.1	3.1

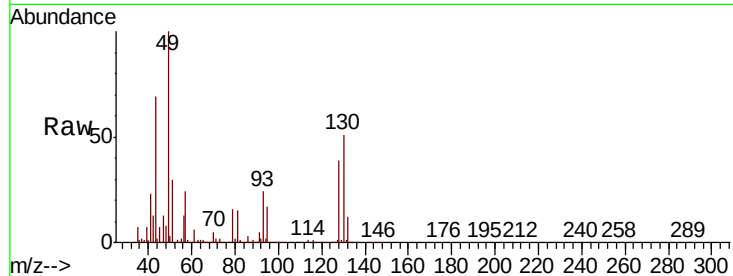




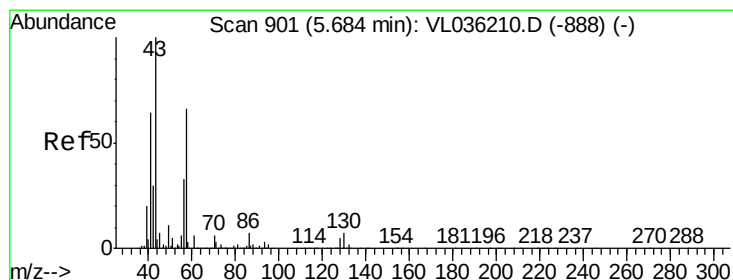
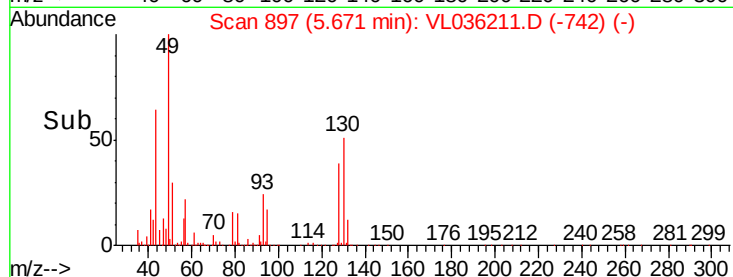
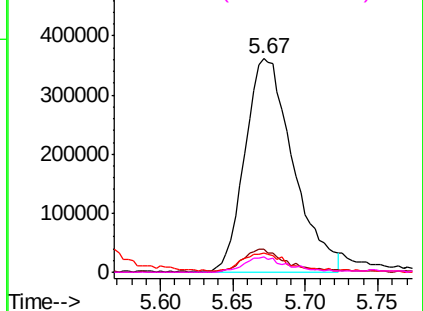
#25
Ethyl Acetate
Concen: 2.235 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.00 min
Lab File: VL036211.D
Acq: 13 Jan 2021 3:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion:	43	Resp:	831830
Ion	Ratio	Lower	Upper
43	100		
45	10.5	8.3	12.5
61	9.2	7.4	11.2
70	6.7	5.5	8.3

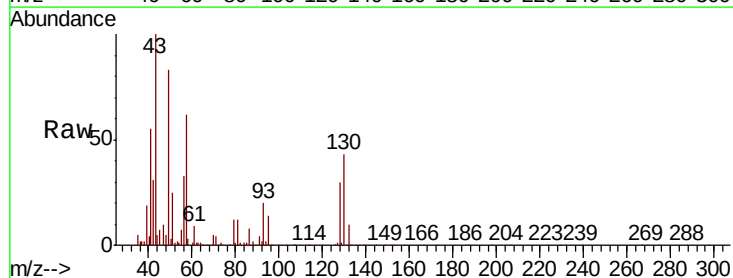


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

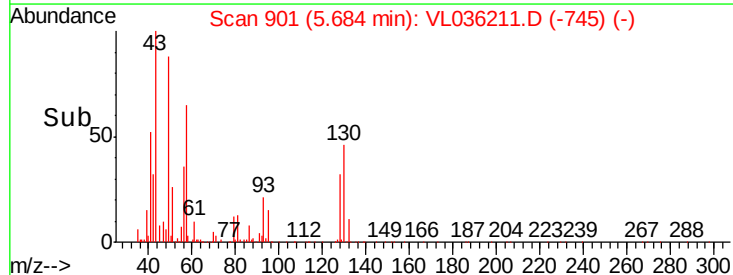
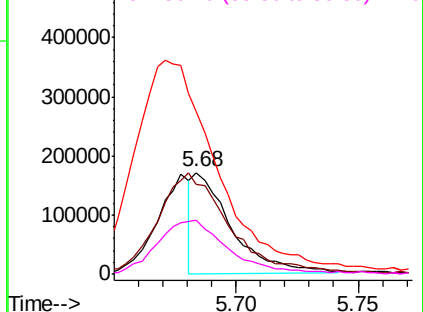


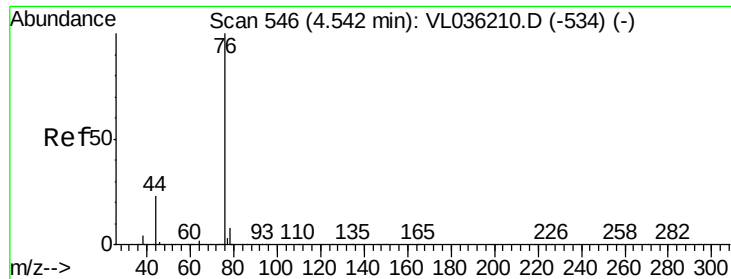
#26
Hexane
Concen: 1.106 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL036211.D
Acq: 13 Jan 2021 3:16

Tgt Ion:	57	Resp:	185087
Ion	Ratio	Lower	Upper
57	100		
41	194.4	83.0	124.6#
43	0.0	202.4	303.6#
56	103.2	43.4	65.0#



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: 1.707 ppbv

RT: 4.55 min Scan# 548

Delta R.T. 0.01 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

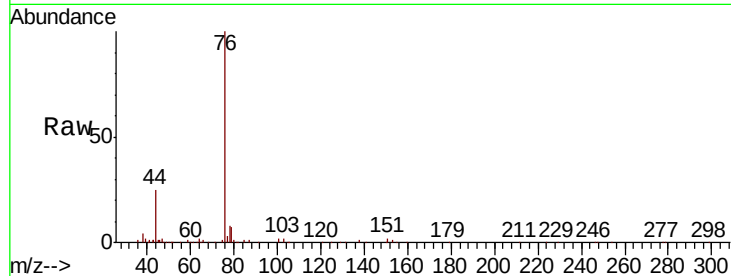
Tot Ion: 76 Resp: 274589

Ion Ratio Lower Upper

76 100

44 22.8 19.0 28.6

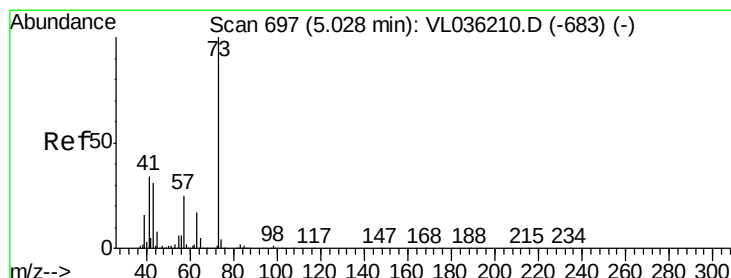
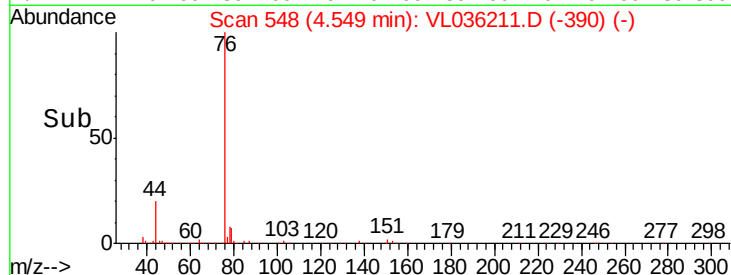
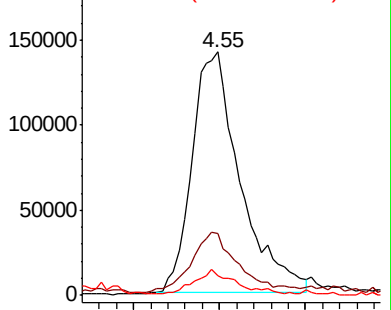
78 10.6 8.0 12.0



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 2.028 ppbv

RT: 5.03 min Scan# 698

Delta R.T. 0.00 min

Lab File: VL036211.D

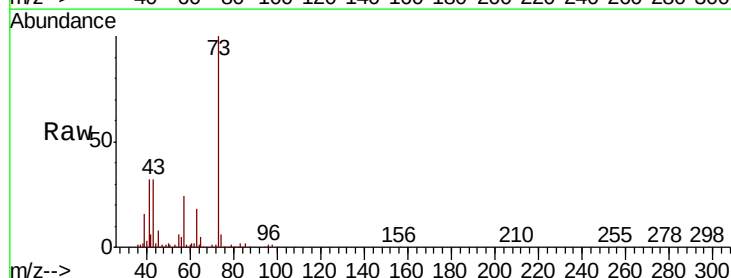
Acq: 13 Jan 2021 3:16

Tgt Ion: 73 Resp: 471818

Ion Ratio Lower Upper

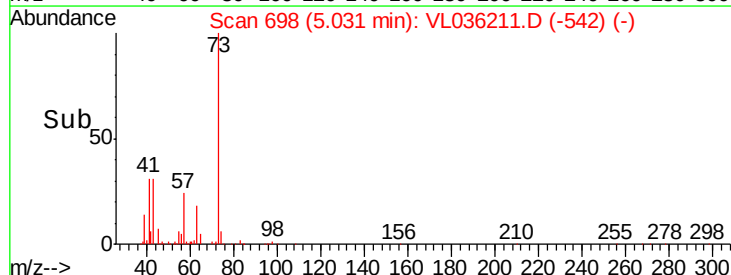
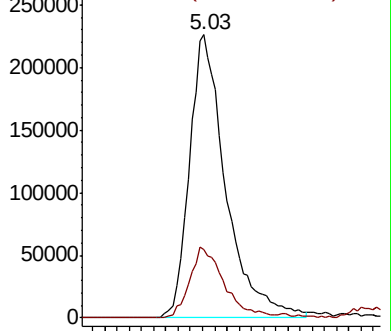
73 100

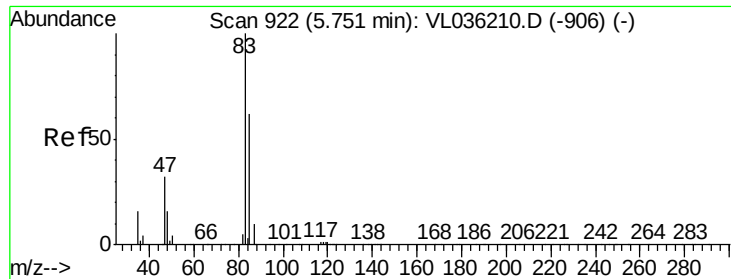
57 24.6 20.4 30.6



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

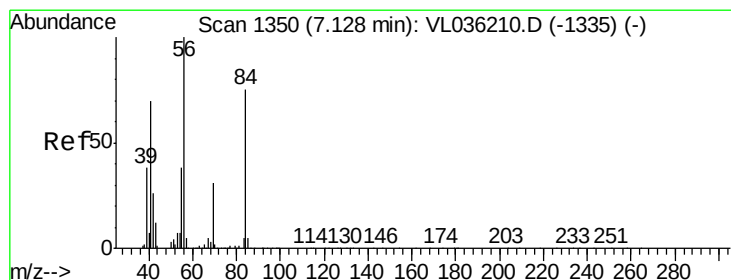
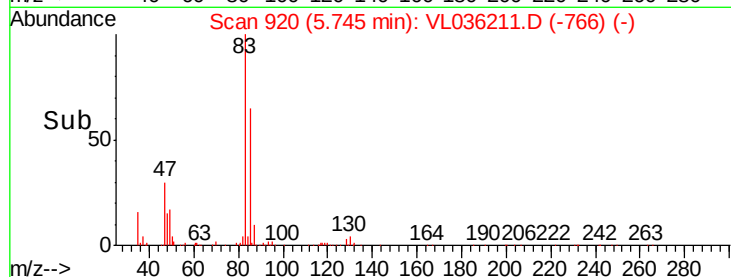
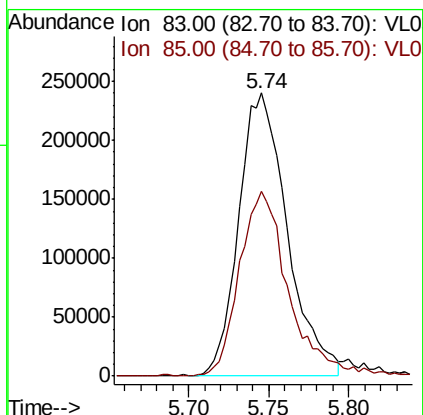
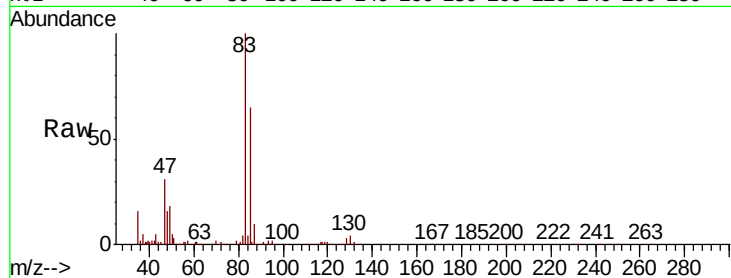




#29
Chloroform
Concen: 2.247 ppbv
RT: 5.74 min Scan# 920
Delta R.T. -0.01 min
Lab File: VL036211.D
Acq: 13 Jan 2021 3:16

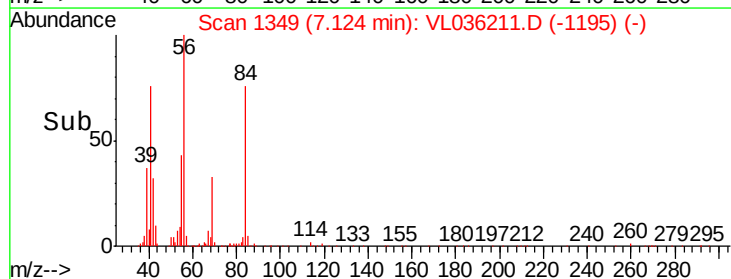
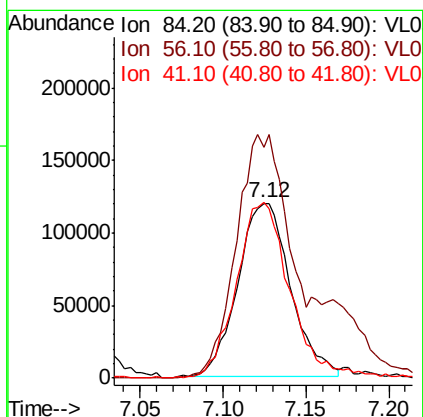
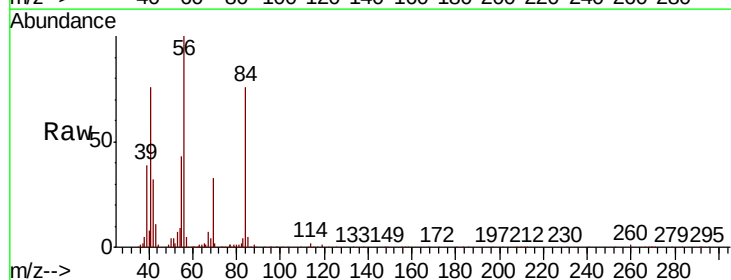
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

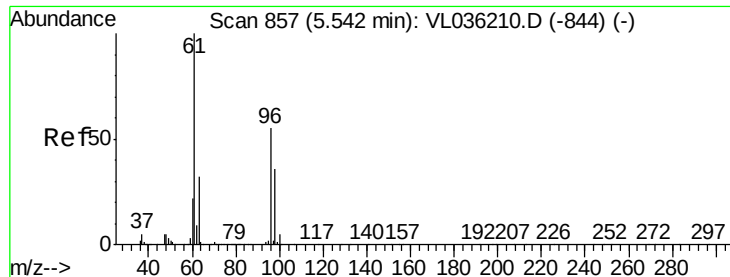
Tot Ion: 83 Resp: 498305
Ion Ratio Lower Upper
83 100
85 65.0 49.3 73.9



#30
Cyclohexane
Concen: 2.125 ppbv
RT: 7.12 min Scan# 1349
Delta R.T. -0.00 min
Lab File: VL036211.D
Acq: 13 Jan 2021 3:16

Tgt Ion: 84 Resp: 265445
Ion Ratio Lower Upper
84 100
56 184.2 119.4 179.0#
41 101.9 79.4 119.0





#31

cis-1,2-Dichloroethene

Concen: 2.125 ppbv

RT: 5.54 min Scan# 857

Delta R.T. -0.00 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

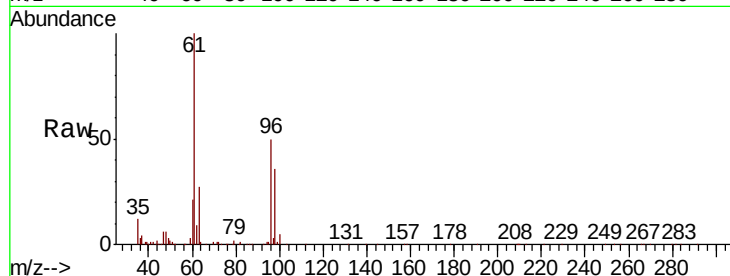
Tot Ion: 61 Resp: 325667

Ion Ratio Lower Upper

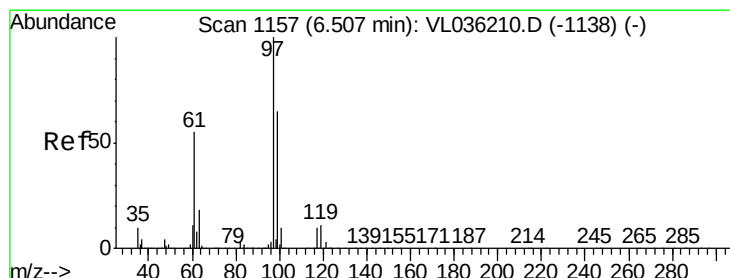
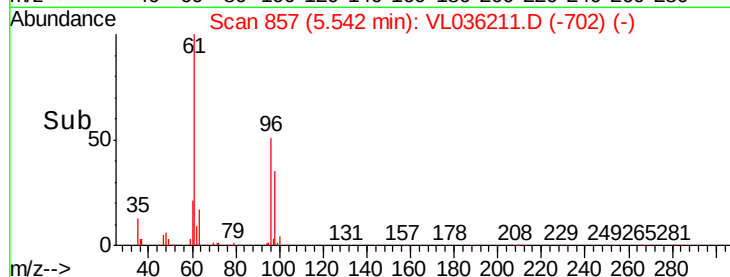
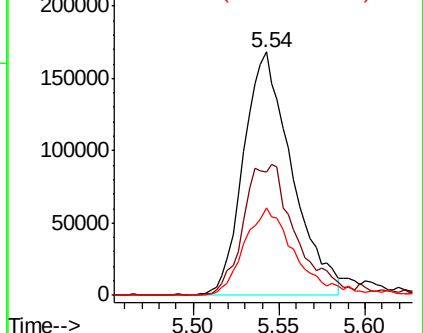
61 100

96 50.5 44.1 66.1

98 35.8 28.6 42.8



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 1.992 ppbv

RT: 6.51 min Scan# 1157

Delta R.T. -0.00 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

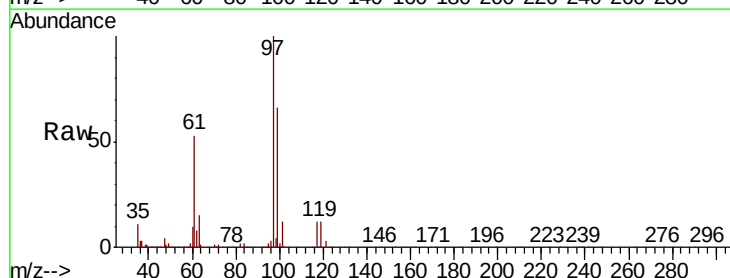
Tgt Ion: 97 Resp: 455726

Ion Ratio Lower Upper

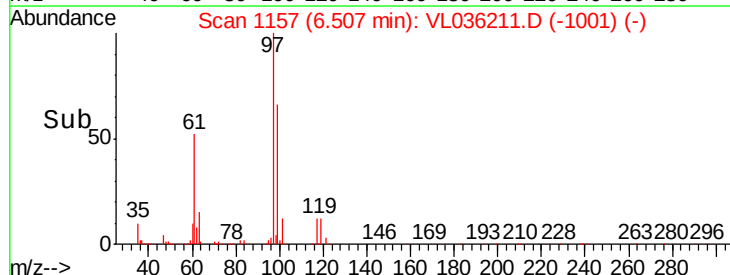
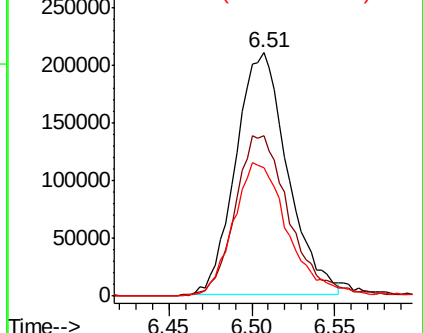
97 100

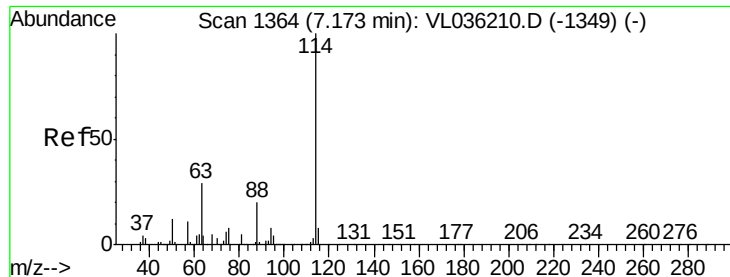
99 70.4 52.0 78.0

61 59.3 43.6 65.4



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

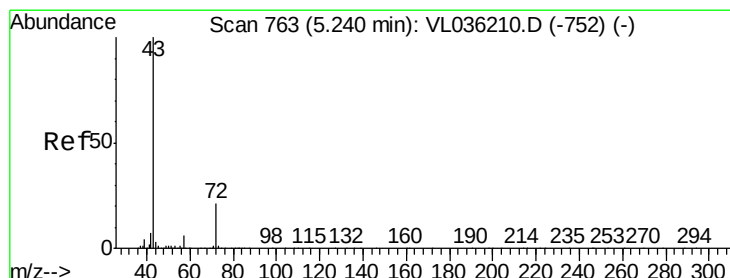
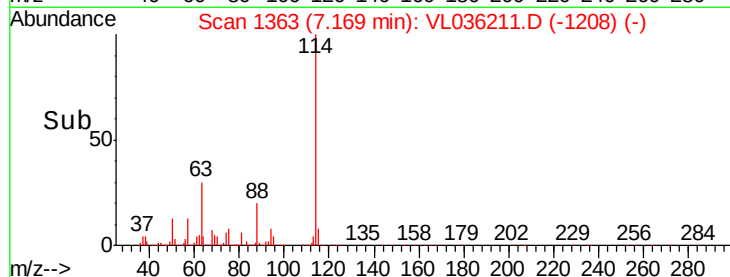
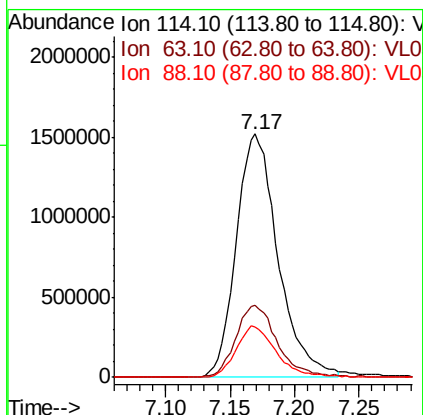
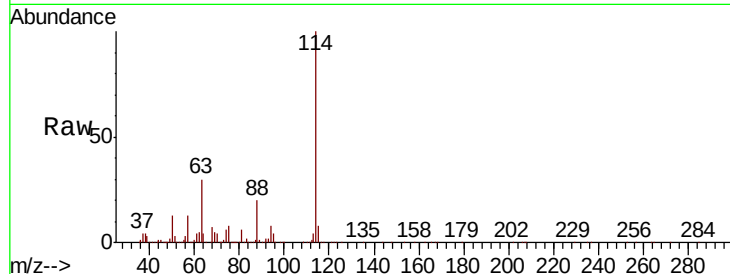




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.00 min
 Lab File: VL036211.D
 Acq: 13 Jan 2021 3:16

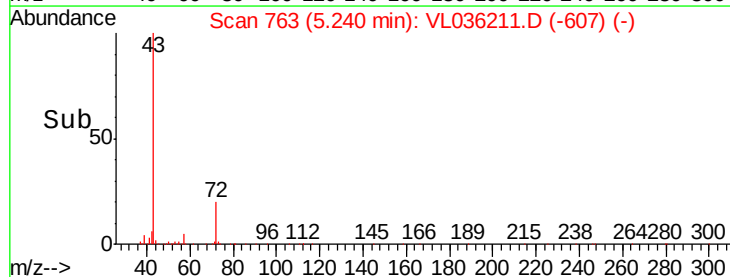
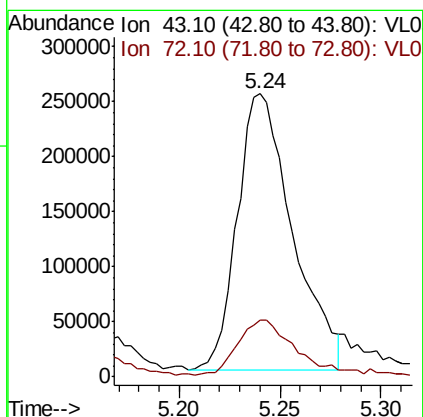
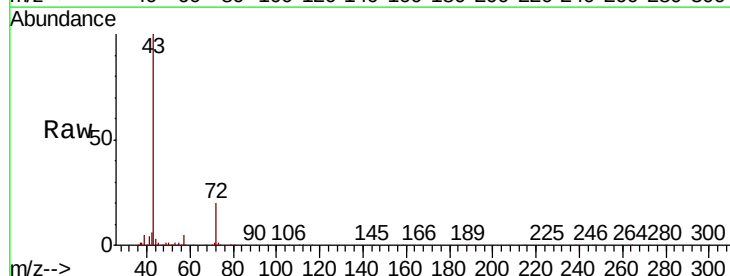
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

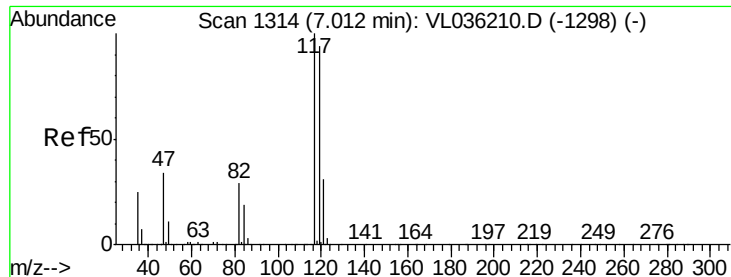
Tot Ion:114 Resp: 3429513
 Ion Ratio Lower Upper
 114 100
 63 30.0 24.7 37.1
 88 20.5 16.6 24.8



#34
 2-Butanone
 Concen: 2.083 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. -0.00 min
 Lab File: VL036211.D
 Acq: 13 Jan 2021 3:16

Tgt Ion: 43 Resp: 479668
 Ion Ratio Lower Upper
 43 100
 72 24.3 16.1 24.1#





#35

Carbon Tetrachloride

Concen: 2.288 ppbv

RT: 7.01 min Scan# 1313

Delta R.T. -0.00 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

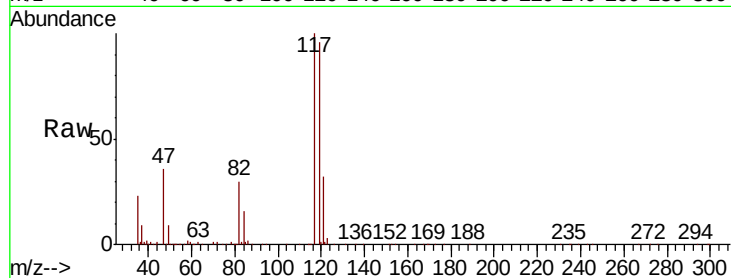
Tot Ion:117 Resp: 457751

Ion Ratio Lower Upper

117 100

119 95.6 74.9 112.3

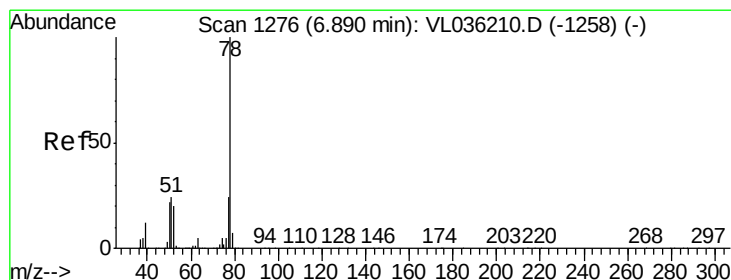
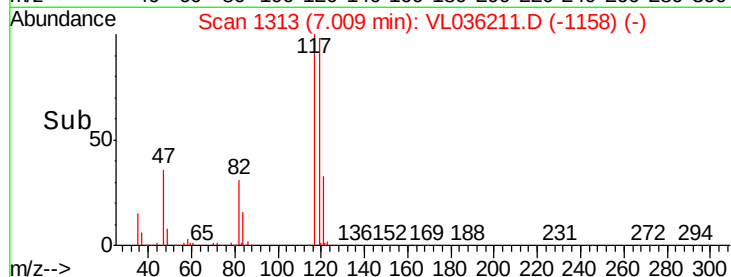
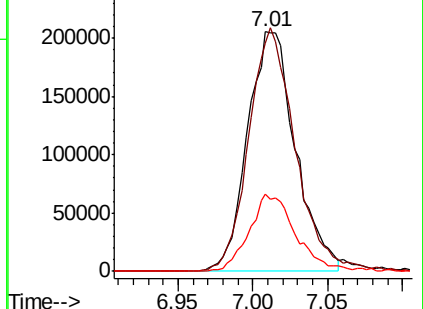
121 32.1 25.0 37.6



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: 2.335 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. -0.00 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

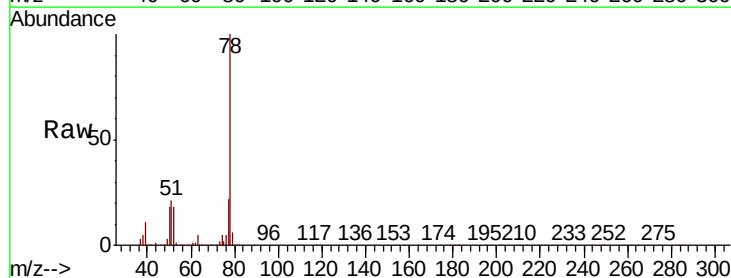
Tgt Ion: 78 Resp: 681671

Ion Ratio Lower Upper

78 100

77 22.1 19.4 29.0

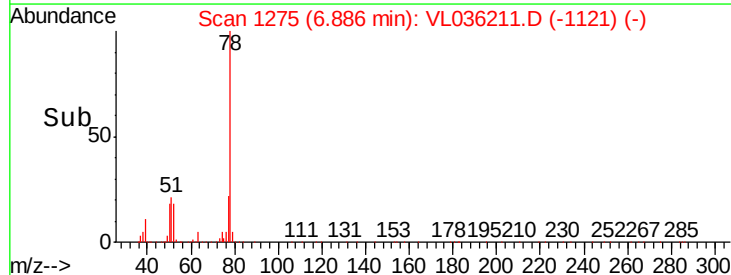
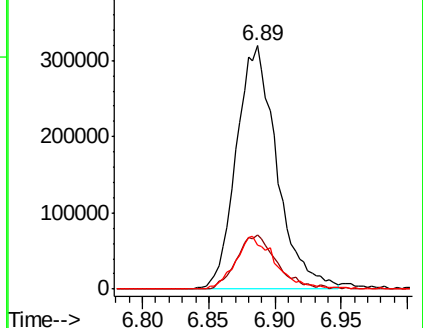
50 18.1 17.4 26.2

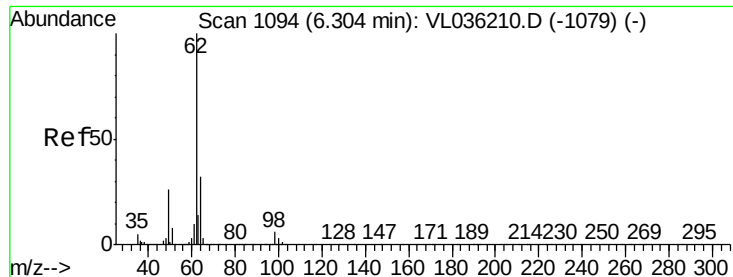


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 2.338 ppbv

RT: 6.30 min Scan# 1092

Delta R.T. -0.01 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

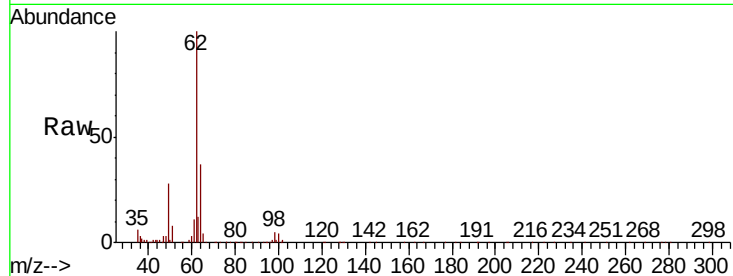
VSTDIC002

Tot Ion: 62 Resp: 397837

Ion Ratio Lower Upper

62 100

98 5.7 4.4 6.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.30

200000

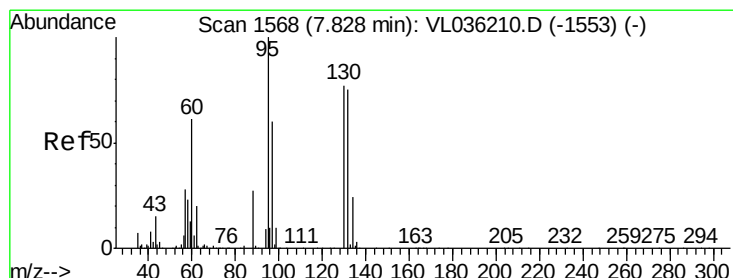
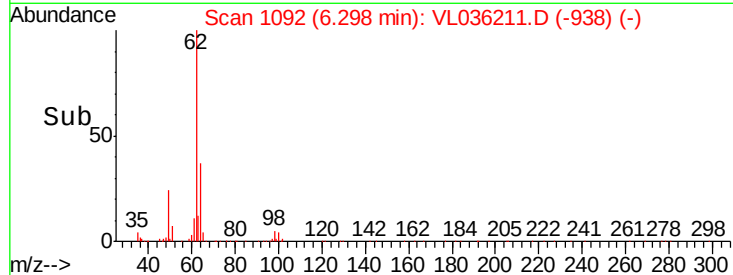
150000

100000

50000

0

Time-->



#38

Trichloroethene

Concen: 1.908 ppbv

RT: 7.83 min Scan# 1568

Delta R.T. -0.00 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

Tgt Ion: 130 Resp: 205736

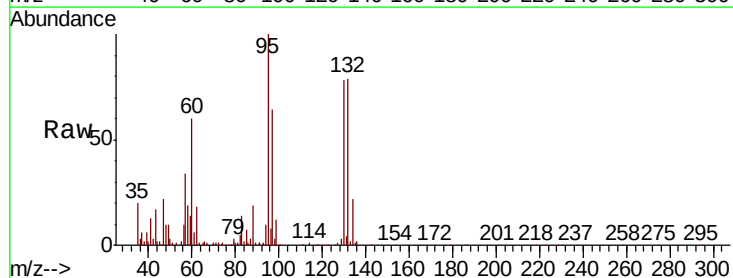
Ion Ratio Lower Upper

130 100

95 127.1 103.9 155.9

132 101.1 77.4 116.2

97 81.5 62.5 93.7



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

200000

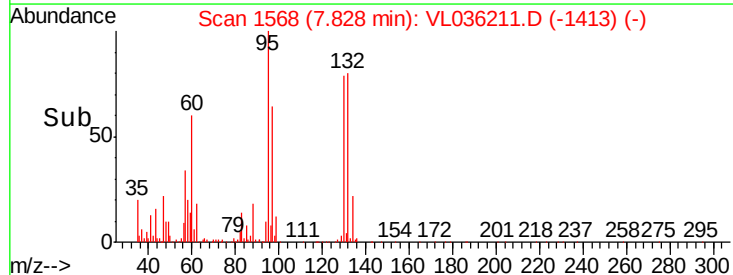
150000

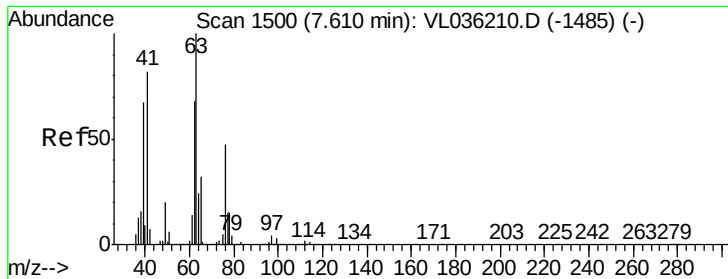
100000

50000

0

Time-->





#39

1,2-Dichloropropane

Concen: 2.319 ppbv

RT: 7.61 min Scan# 1500

Delta R.T. -0.00 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

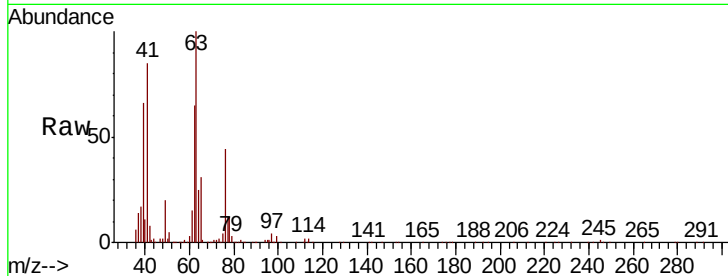
Tot Ion: 63 Resp: 268067

Ion Ratio Lower Upper

63 100

41 83.0 66.1 99.1

62 64.3 54.8 82.2



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

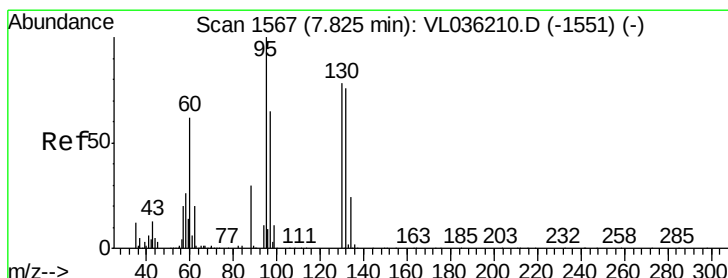
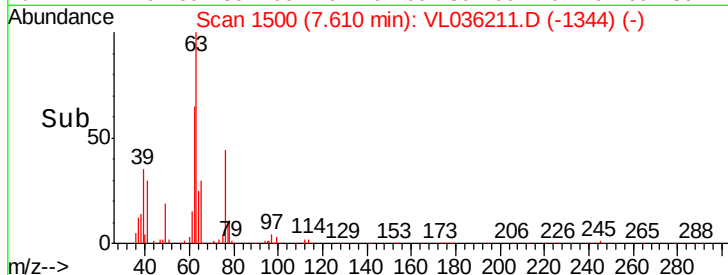
150000

100000

50000

0

Time-->



#40

1,4-Dioxane

Concen: 1.200 ppbv

RT: 7.83 min Scan# 1570

Delta R.T. 0.01 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

Tgt Ion: 88 Resp: 43714

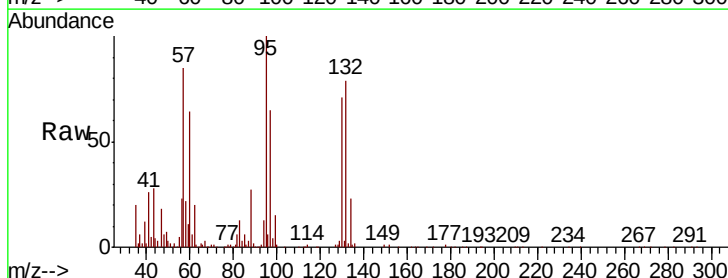
Ion Ratio Lower Upper

88 100

58 0.0 123.0 184.6#

43 0.0 0.0 0.0

57 0.0 0.0 0.0



Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

800000

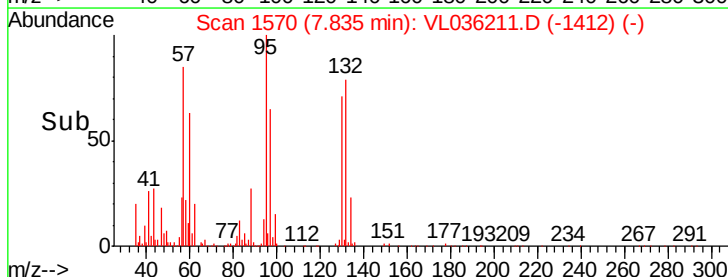
600000

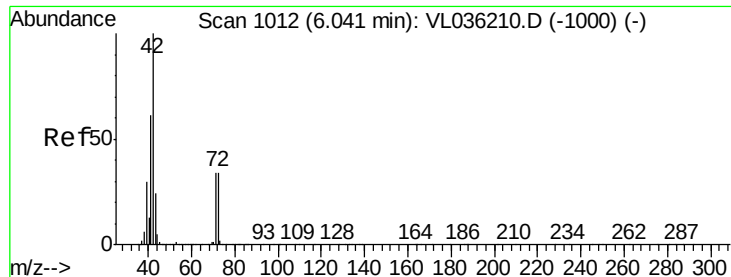
400000

200000

0

Time-->





#41

Tetrahydrofuran

Concen: 2.079 ppbv

RT: 6.05 min Scan# 1015

Delta R.T. 0.01 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

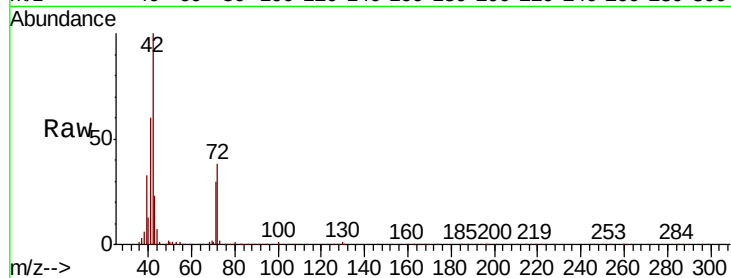
Tot Ion: 42 Resp: 280705

Ion Ratio Lower Upper

42 100

72 37.5 29.5 44.3

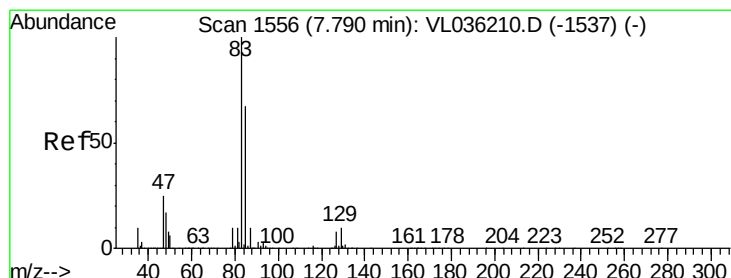
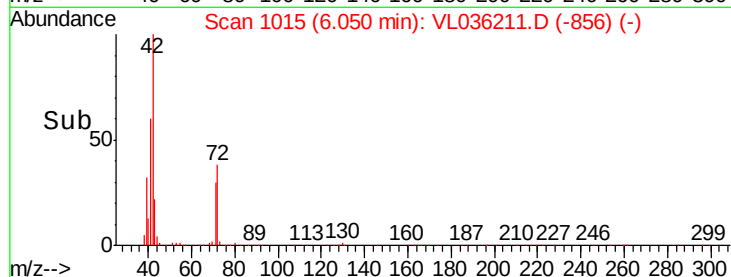
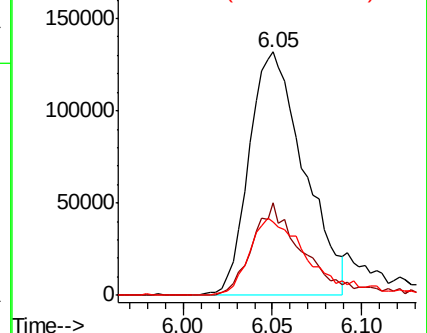
71 36.8 29.1 43.7



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: 2.353 ppbv

RT: 7.78 min Scan# 1554

Delta R.T. -0.01 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

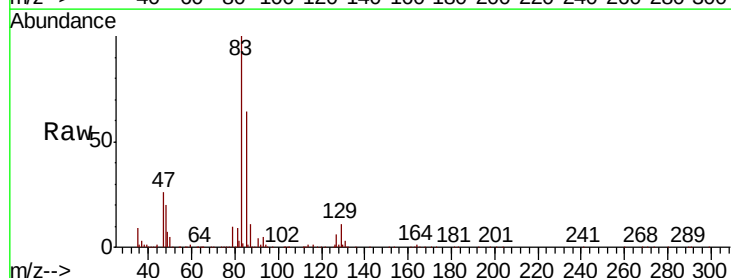
Tgt Ion: 83 Resp: 528687

Ion Ratio Lower Upper

83 100

85 64.0 53.4 80.2

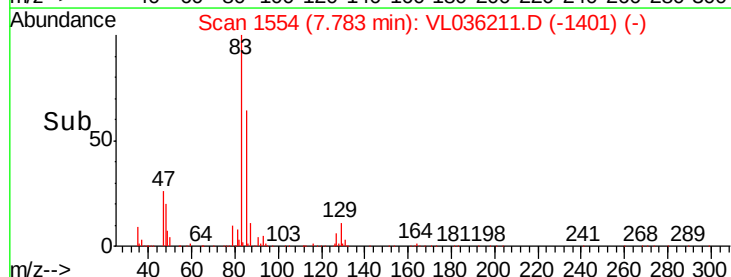
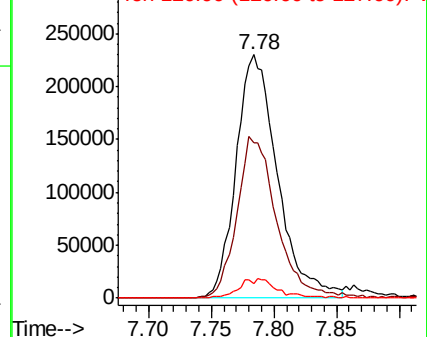
127 6.2 6.2 9.2

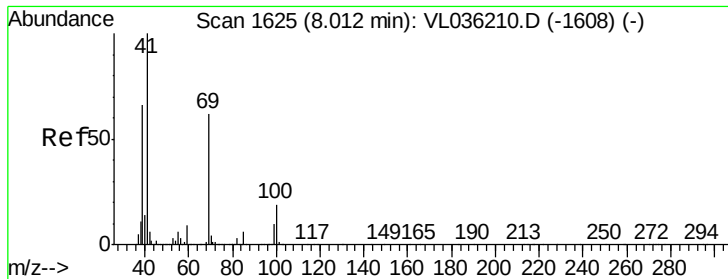


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V





#43

Methyl Methacrylate

Concen: 2.334 ppbv

RT: 8.01 min Scan# 1625

Delta R.T. -0.00 min

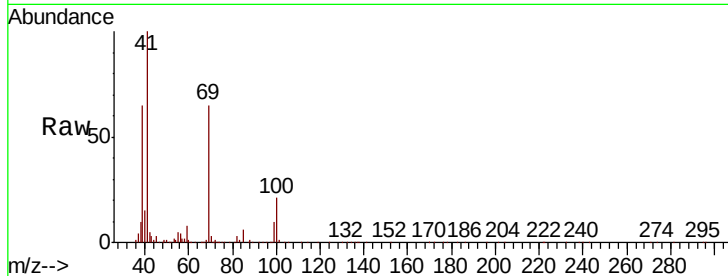
Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 69 Resp: 292363

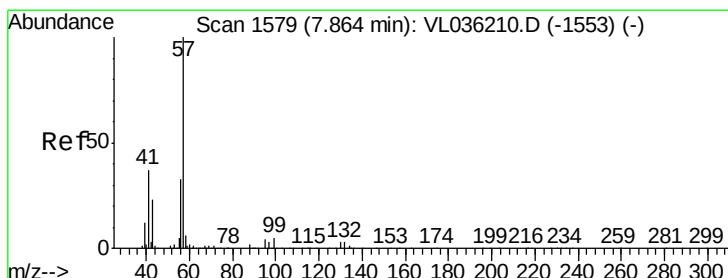
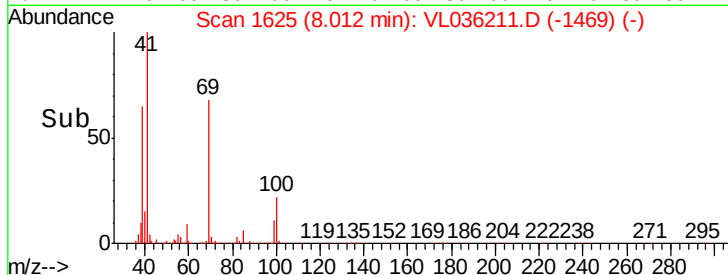
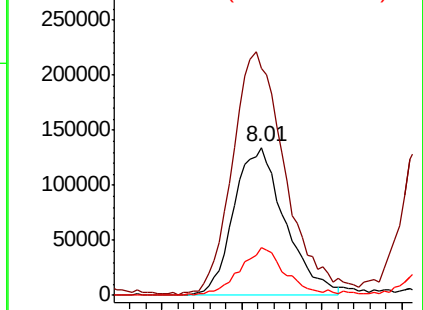
Ion	Ratio	Lower	Upper
69	100		
41	170.1	133.4	200.2
100	29.9	24.3	36.5



Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 2.403 ppbv

RT: 7.86 min Scan# 1579

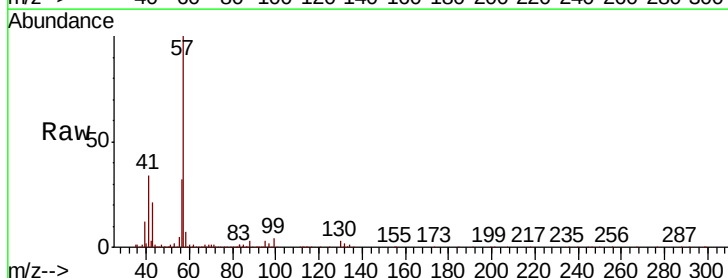
Delta R.T. -0.00 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

Tgt Ion: 57 Resp: 1265611

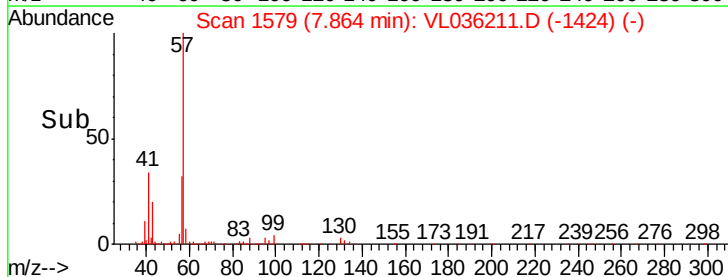
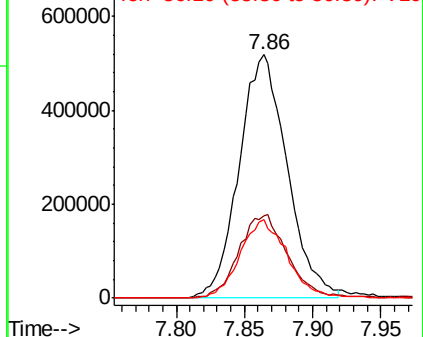
Ion	Ratio	Lower	Upper
57	100		
41	35.2	28.5	42.7
56	32.1	25.5	38.3

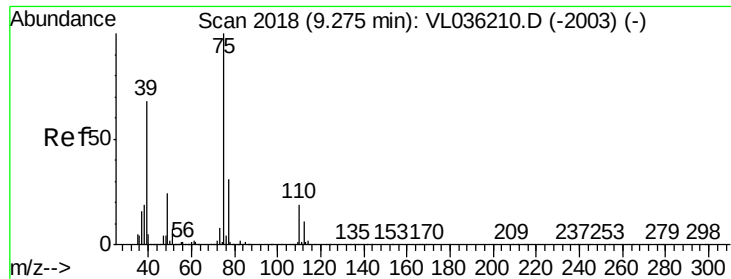


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

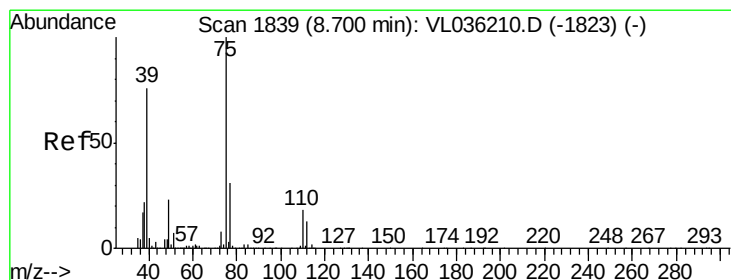
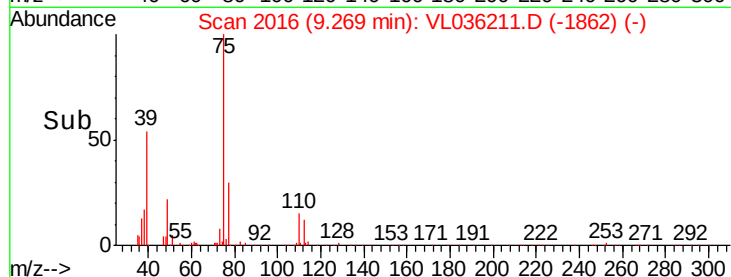
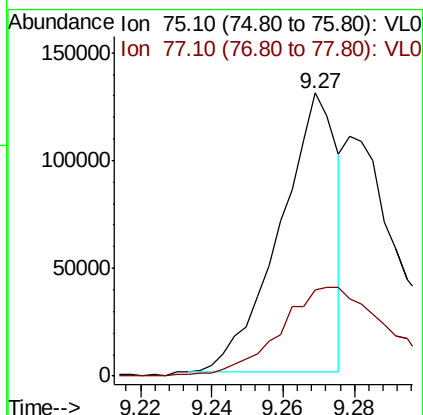
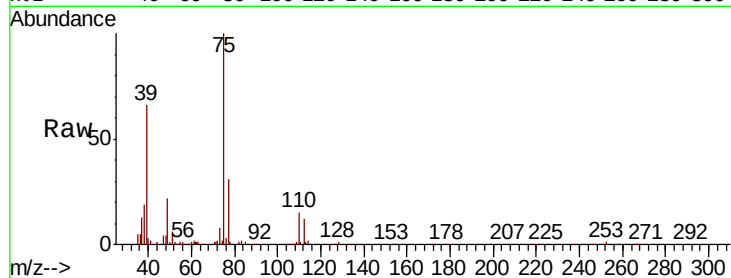




#45
 t-1,3-Dichloropropene
 Concen: 1.119 ppbv
 RT: 9.27 min Scan# 2016
 Delta R.T. -0.01 min
 Lab File: VL036211.D
 Acq: 13 Jan 2021 3:16

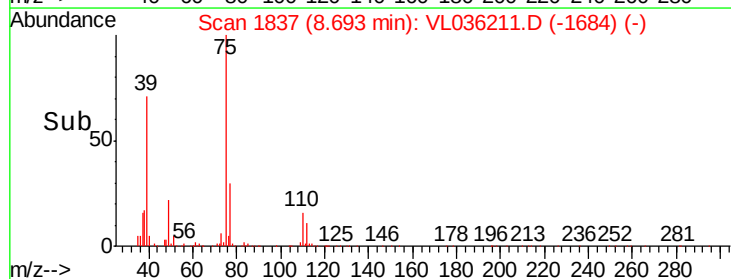
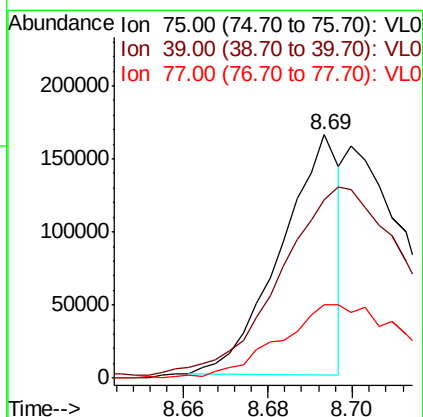
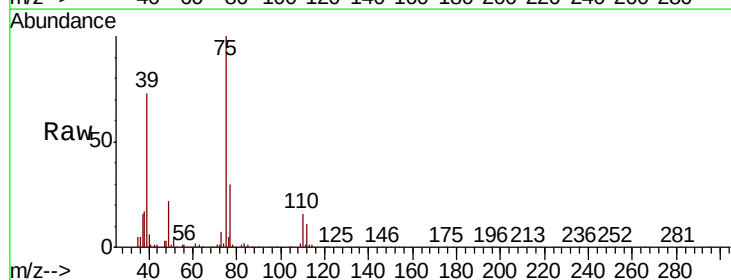
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

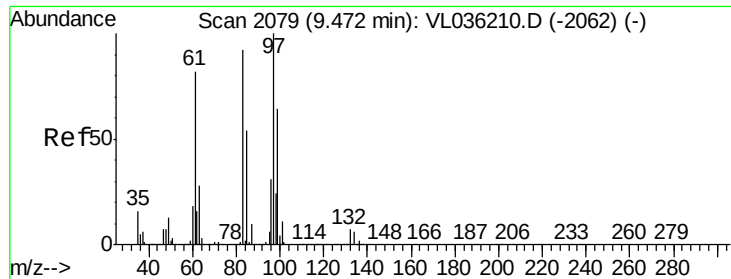
Tot Ion: 75 Resp: 143370
 Ion Ratio Lower Upper
 75 100
 77 30.6 24.7 37.1



#46
 cis-1,3-Dichloropropene
 Concen: 0.986 ppbv
 RT: 8.69 min Scan# 1837
 Delta R.T. -0.01 min
 Lab File: VL036211.D
 Acq: 13 Jan 2021 3:16

Tgt Ion: 75 Resp: 159379
 Ion Ratio Lower Upper
 75 100
 39 70.3 61.2 91.8
 77 29.3 24.6 37.0

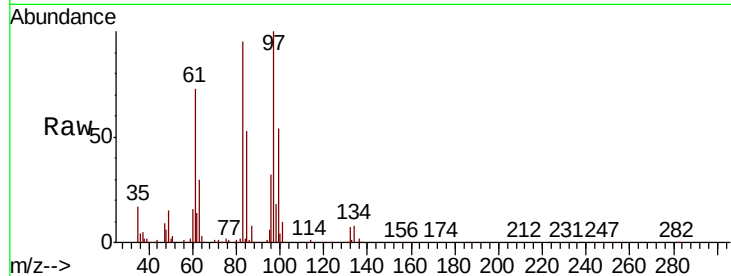




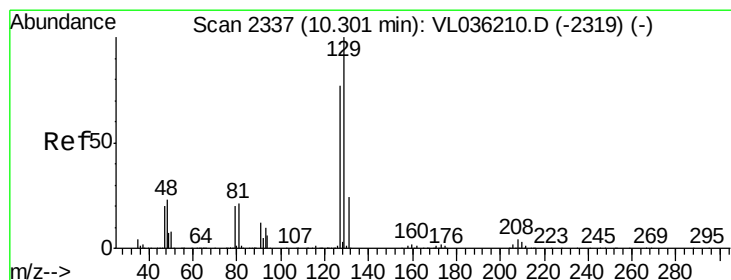
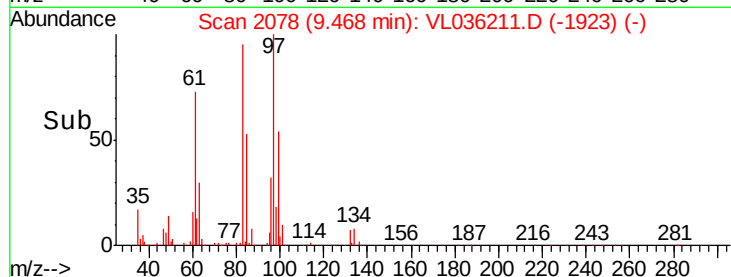
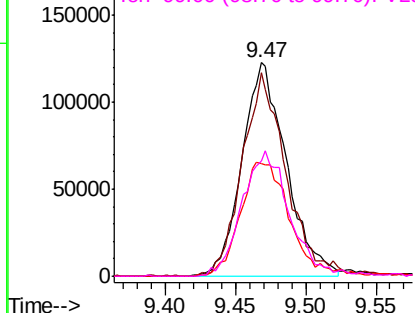
#47
 1,1,2-Trichloroethane
 Concen: 2.422 ppbv
 RT: 9.47 min Scan# 2078
 Delta R.T. -0.00 min
 Lab File: VL036211.D
 Acq: 13 Jan 2021 3:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion:	97	Resp:	270061
Ion	Ratio	Lower	Upper
97	100		
83	95.5	73.3	109.9
85	52.7	43.2	64.8
99	53.8	51.5	77.3

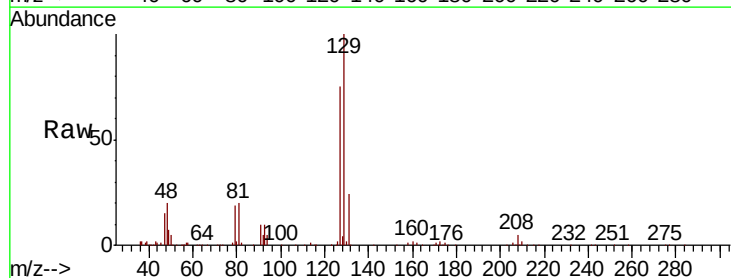


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

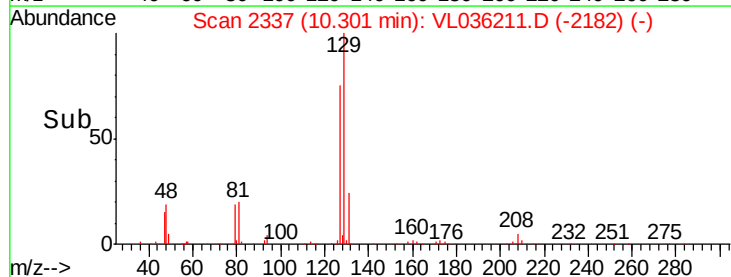
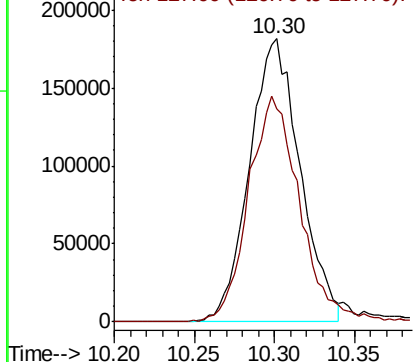


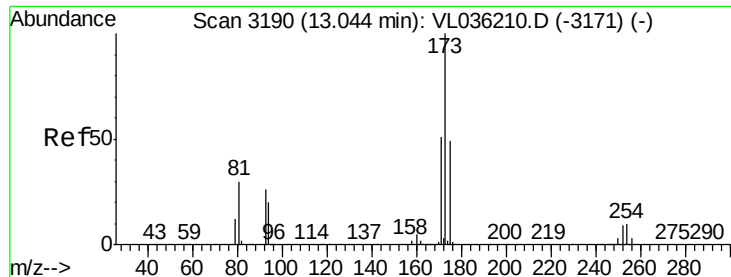
#48
 Dibromochloromethane
 Concen: 2.370 ppbv
 RT: 10.30 min Scan# 2337
 Delta R.T. -0.00 min
 Lab File: VL036211.D
 Acq: 13 Jan 2021 3:16

Tgt Ion:	129	Resp:	395568
Ion	Ratio	Lower	Upper
129	100		
127	80.6	39.6	118.8



Abundance Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 2.450 ppbv

RT: 13.04 min Scan# 3188

Delta R.T. -0.01 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

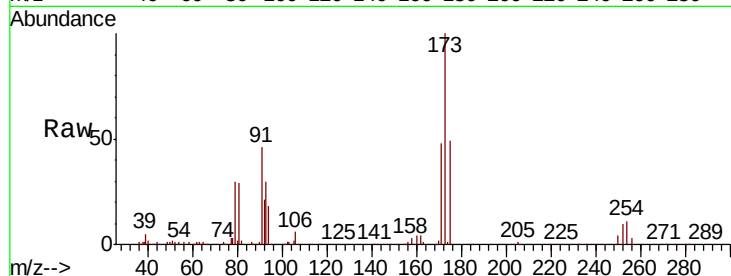
Tot Ion:173 Resp: 323376

Ion Ratio Lower Upper

173 100

175 50.9 40.7 61.1

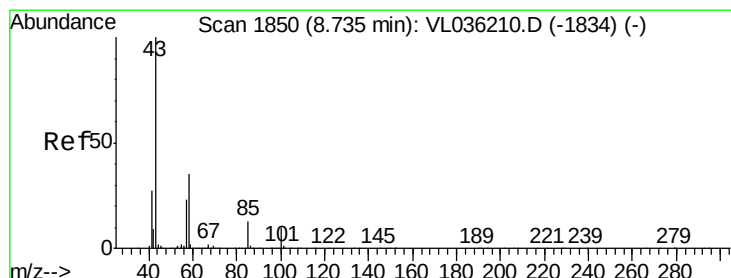
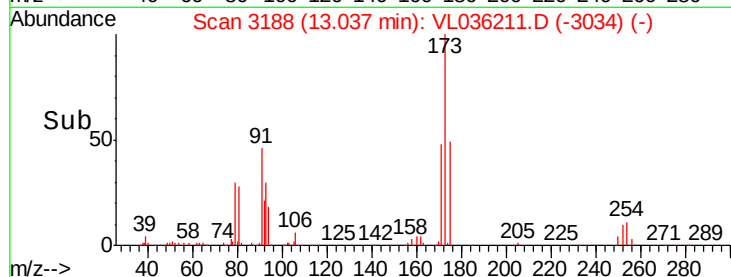
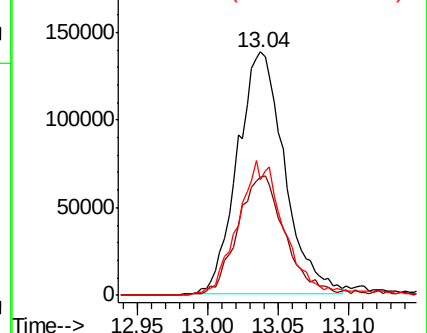
171 56.0 43.0 64.6



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: 1.371 ppbv

RT: 8.74 min Scan# 1851

Delta R.T. 0.00 min

Lab File: VL036211.D

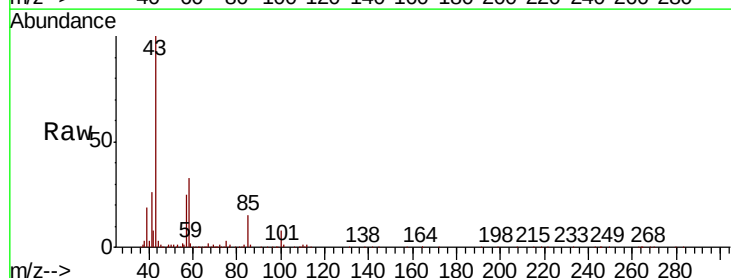
Acq: 13 Jan 2021 3:16

Tgt Ion: 43 Resp: 469726

Ion Ratio Lower Upper

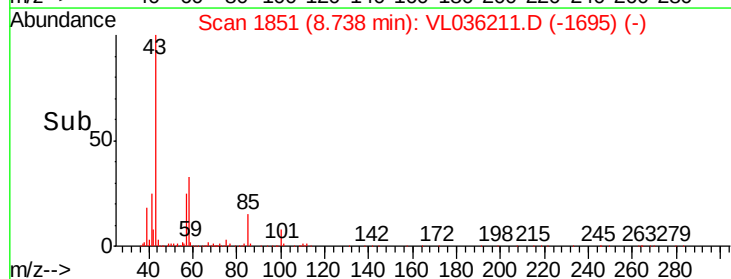
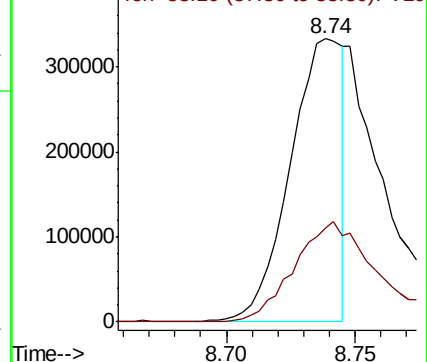
43 100

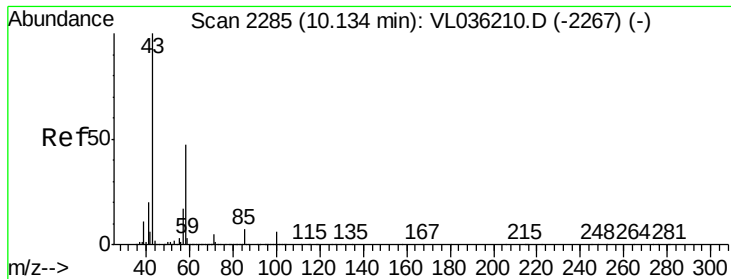
58 60.2 27.6 41.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

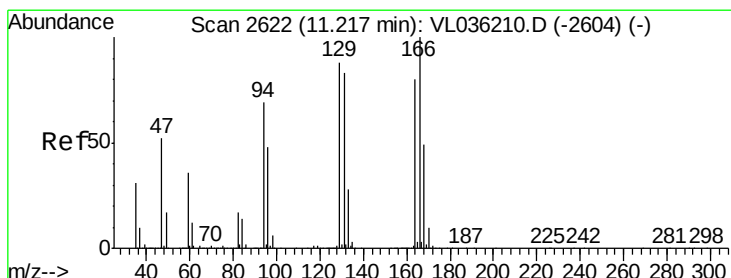
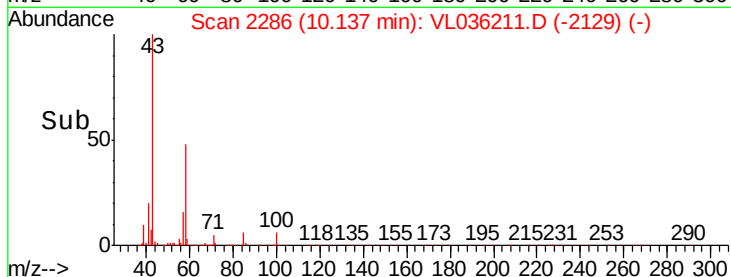
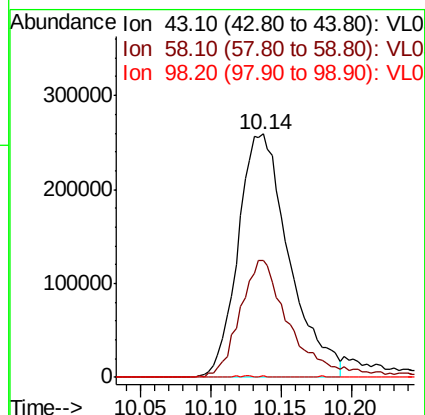
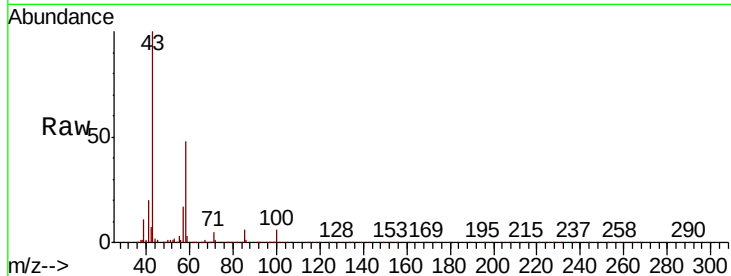




#51
2-Hexanone
Concen: 2.398 ppbv
RT: 10.14 min Scan# 2286
Delta R.T. 0.00 min
Lab File: VL036211.D
Acq: 13 Jan 2021 3:16

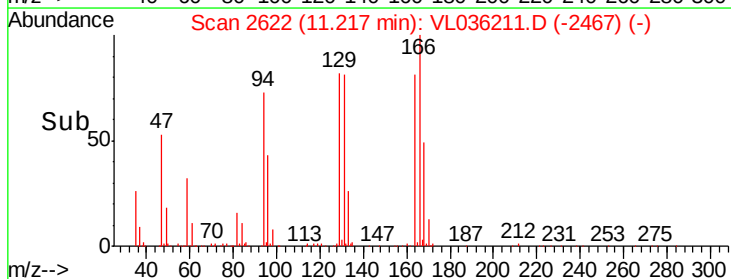
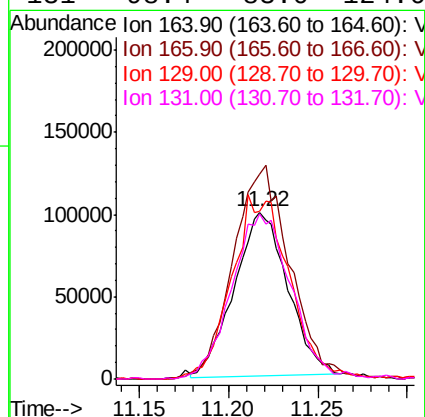
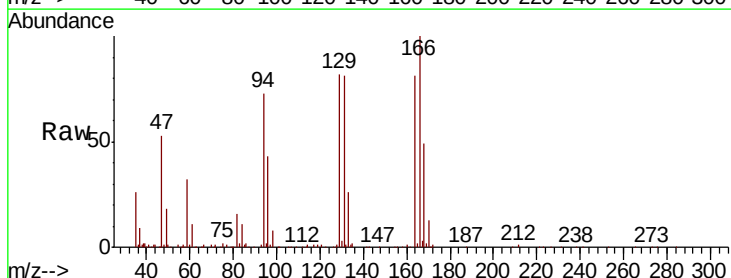
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

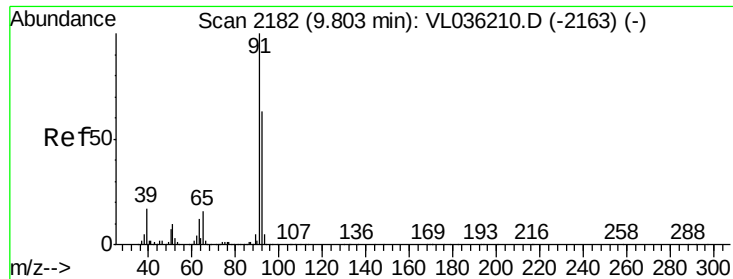
Tot Ion: 43 Resp: 650739
Ion Ratio Lower Upper
43 100
58 48.7 37.4 56.0
98 0.2 0.2 0.2



#52
Tetrachloroethene
Concen: 2.003 ppbv
RT: 11.22 min Scan# 2622
Delta R.T. -0.00 min
Lab File: VL036211.D
Acq: 13 Jan 2021 3:16

Tgt Ion: 164 Resp: 210200
Ion Ratio Lower Upper
164 100
166 122.5 99.9 149.9
129 100.7 88.2 132.4
131 98.4 83.0 124.6





#53

Toluene

Concen: 2.355 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. -0.00 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

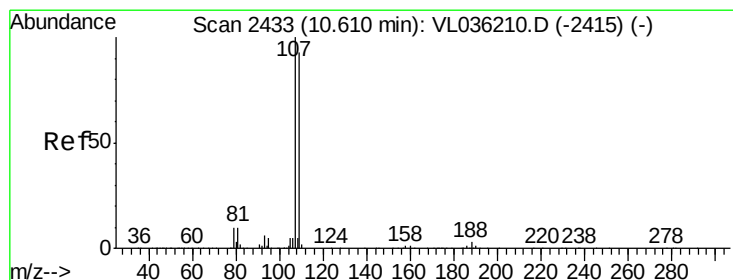
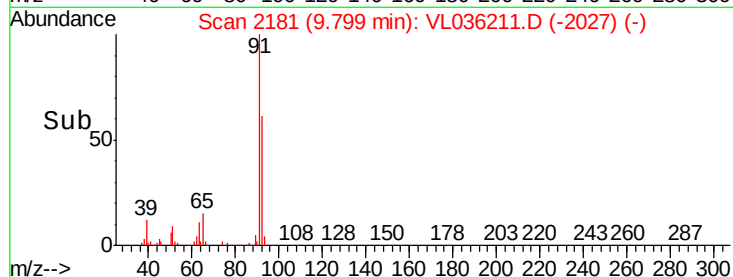
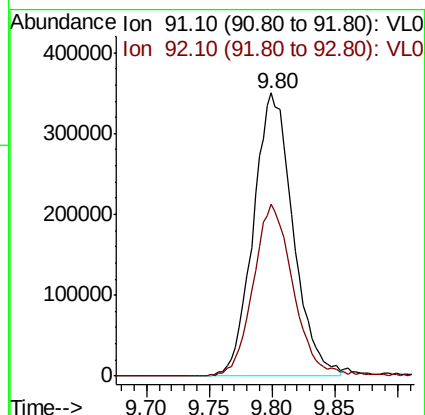
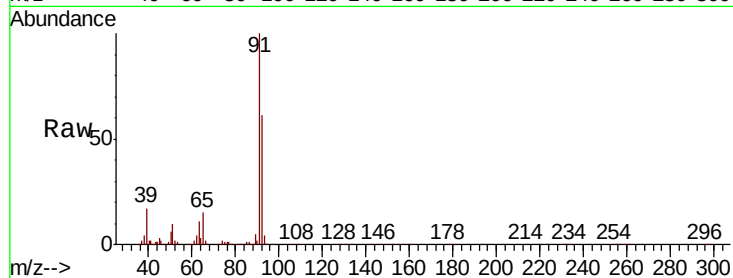
VSTDIC002

Tot Ion: 91 Resp: 771330

Ion Ratio Lower Upper

91 100

92 61.2 48.5 72.7



#54

1,2-Dibromoethane

Concen: 2.330 ppbv

RT: 10.61 min Scan# 2432

Delta R.T. -0.00 min

Lab File: VL036211.D

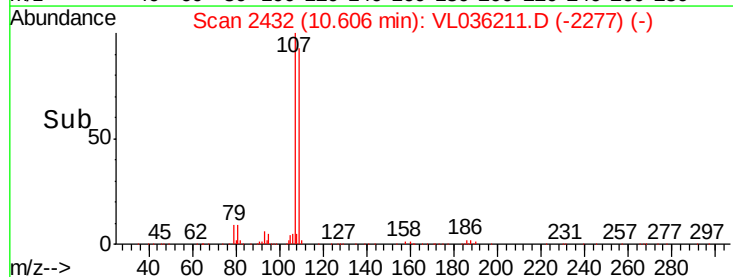
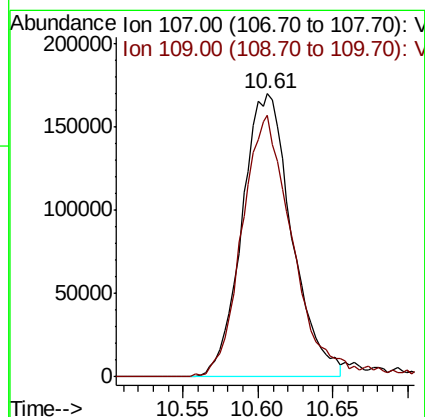
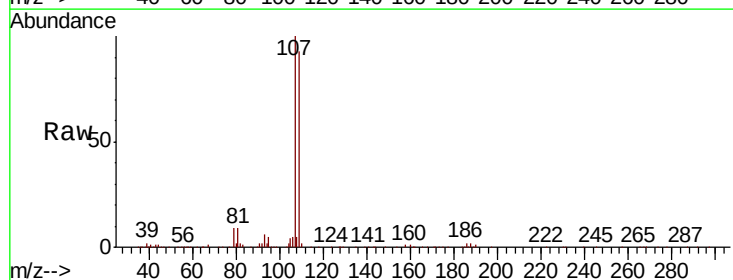
Acq: 13 Jan 2021 3:16

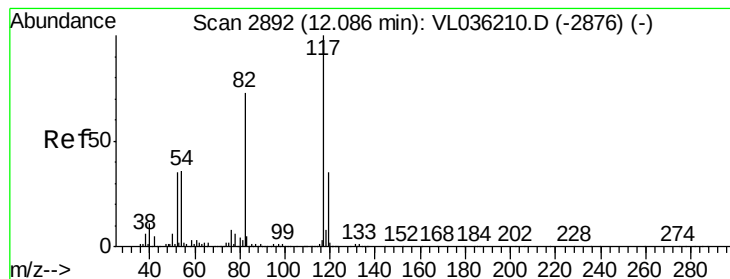
Tgt Ion: 107 Resp: 389291

Ion Ratio Lower Upper

107 100

109 92.5 74.5 111.7





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. -0.00 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

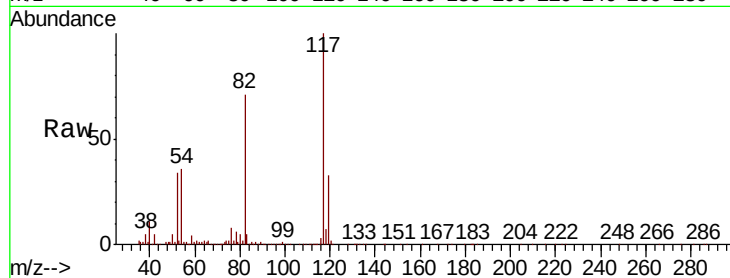
Tot Ion:117 Resp: 3319142

Ion Ratio Lower Upper

117 100

82 70.2 59.7 89.5

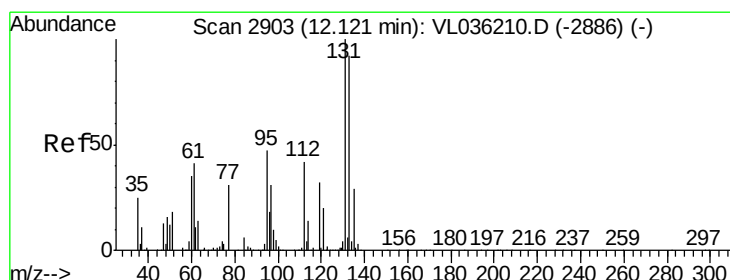
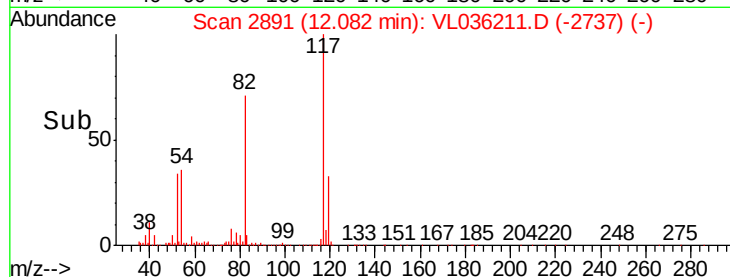
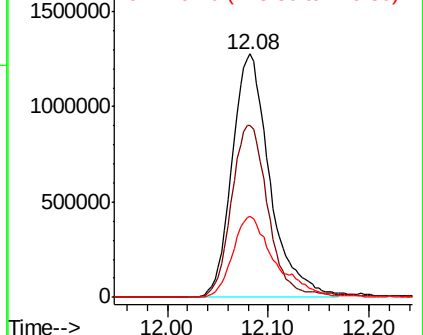
119 37.3 28.6 43.0



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



#56

1,1,1,2-Tetrachloroethane

Concen: 2.331 ppbv

RT: 12.12 min Scan# 2902

Delta R.T. -0.00 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

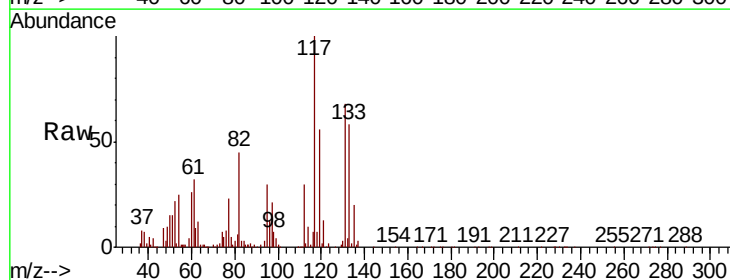
Tgt Ion:131 Resp: 320511

Ion Ratio Lower Upper

131 100

133 95.3 76.5 114.7

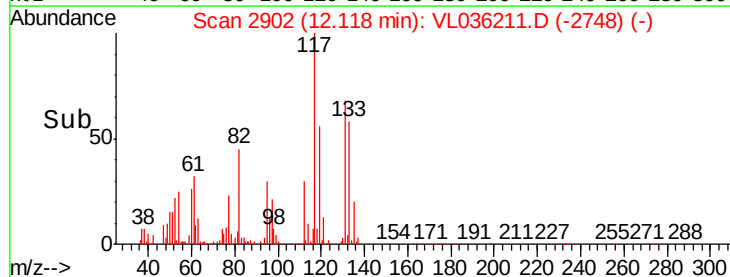
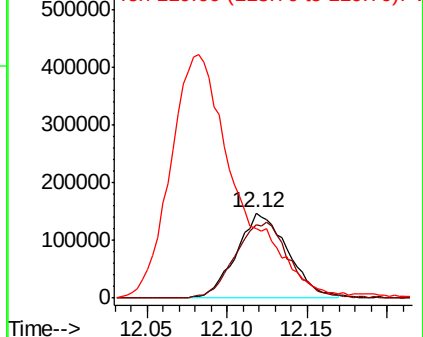
119 386.6 45.4 68.0#

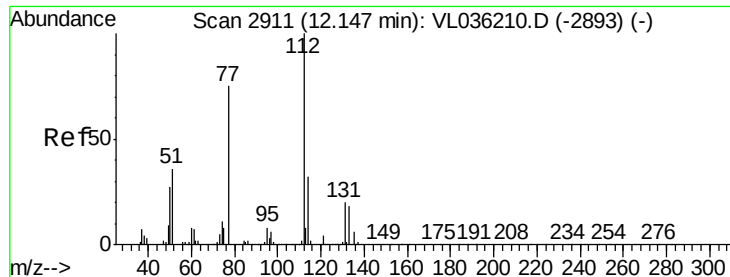


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 2.379 ppbv

RT: 12.14 min Scan# 2910

Delta R.T. -0.00 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

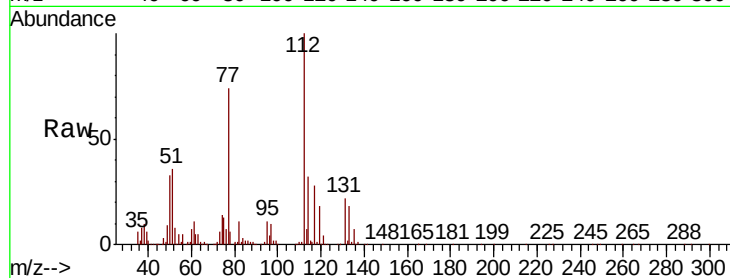
Tot Ion:112 Resp: 556828

Ion Ratio Lower Upper

112 100

77 71.0 59.6 89.4

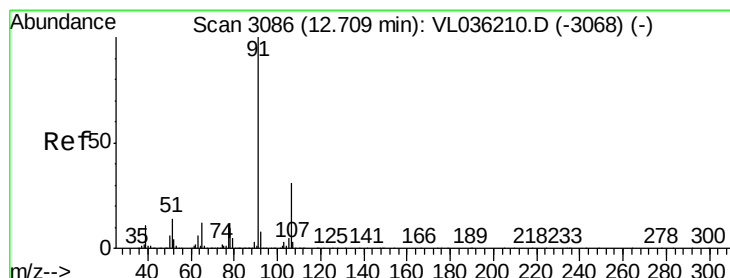
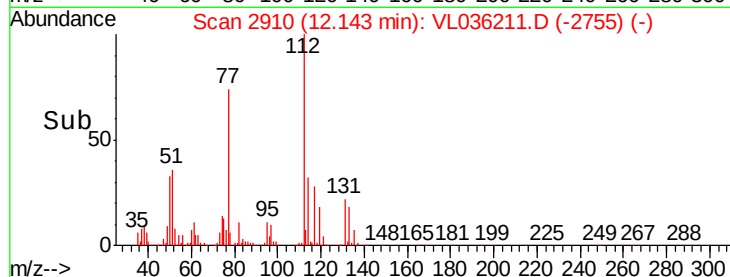
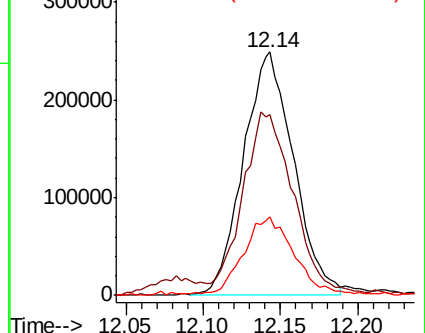
114 32.1 28.7 35.1



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: 2.374 ppbv

RT: 12.71 min Scan# 3085

Delta R.T. -0.00 min

Lab File: VL036211.D

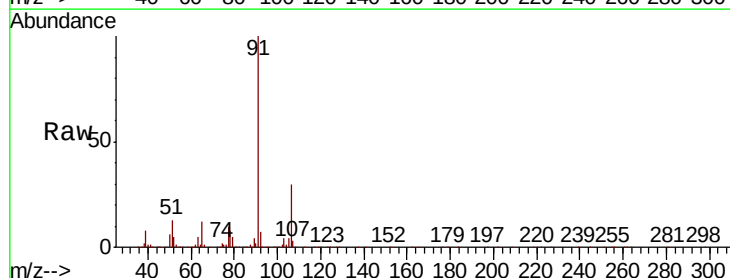
Acq: 13 Jan 2021 3:16

Tgt Ion: 91 Resp: 1087082

Ion Ratio Lower Upper

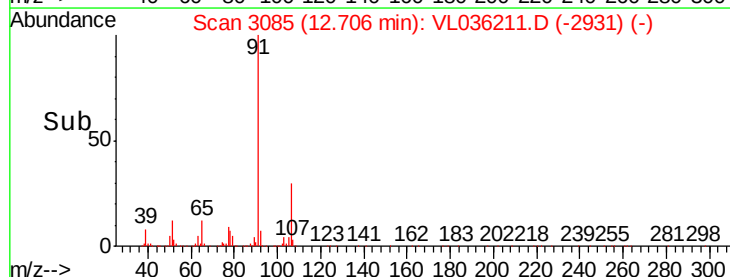
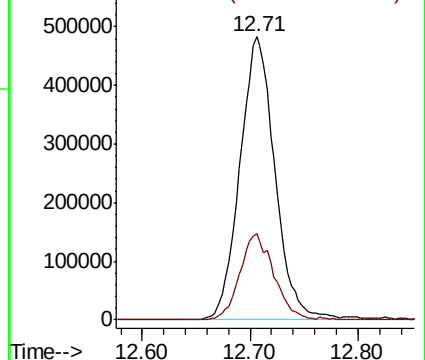
91 100

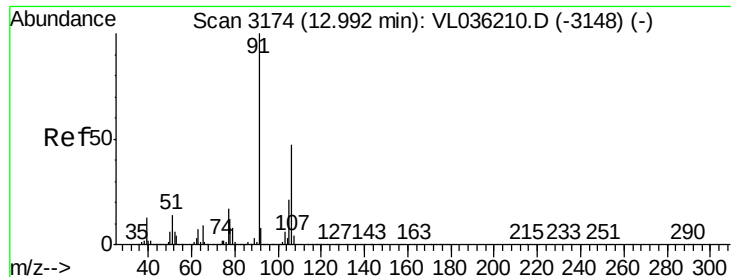
106 30.3 24.8 37.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

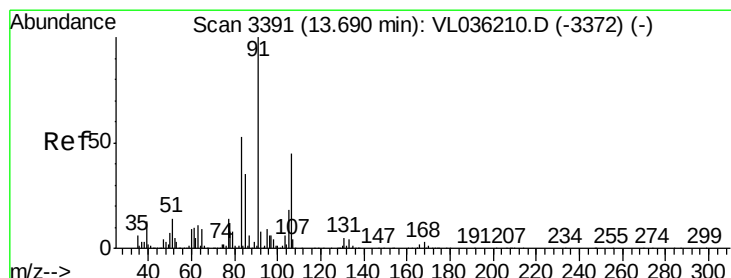
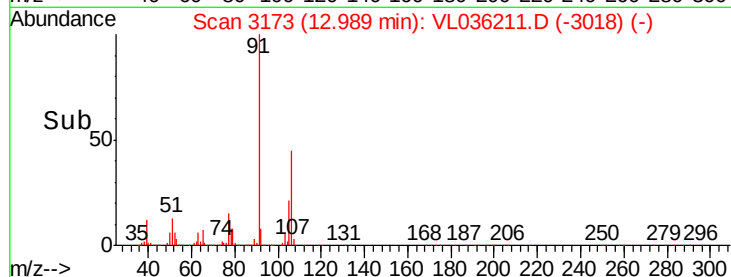
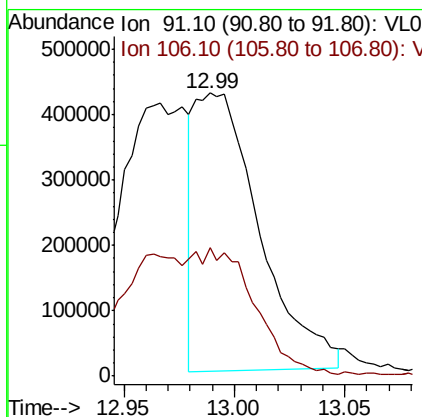
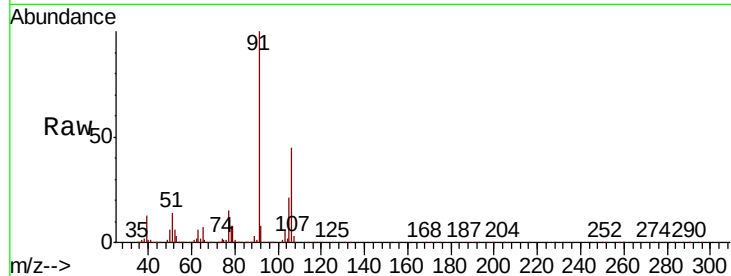




#59
m/p-Xylene
Concen: 2.239 ppbv
RT: 12.99 min Scan# 3173
Delta R.T. -0.00 min
Lab File: VL036211.D
Acq: 13 Jan 2021 3:16

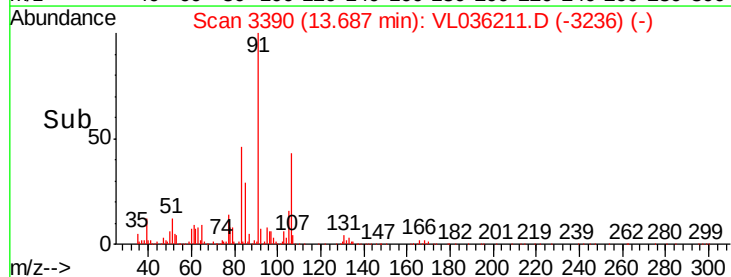
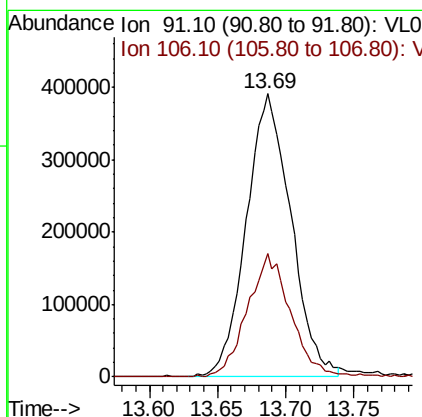
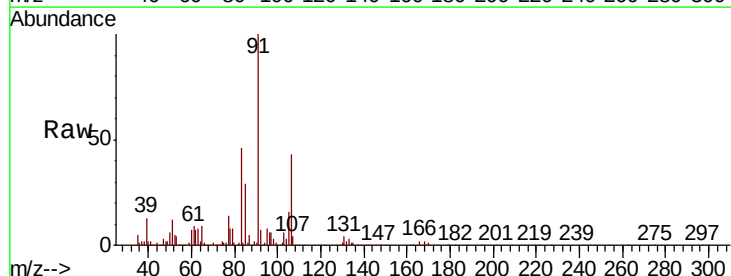
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

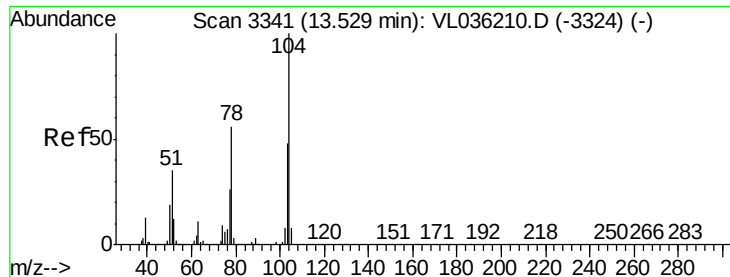
Tot Ion: 91 Resp: 861841
Ion Ratio Lower Upper
91 100
106 91.2 34.6 51.8#



#60
o-Xylene
Concen: 2.435 ppbv
RT: 13.69 min Scan# 3390
Delta R.T. -0.00 min
Lab File: VL036211.D
Acq: 13 Jan 2021 3:16

Tgt Ion: 91 Resp: 884684
Ion Ratio Lower Upper
91 100
106 42.8 21.9 65.8

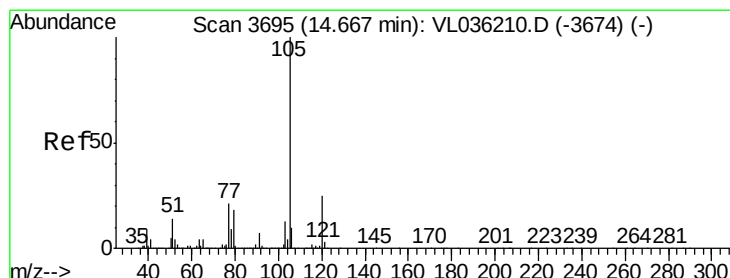
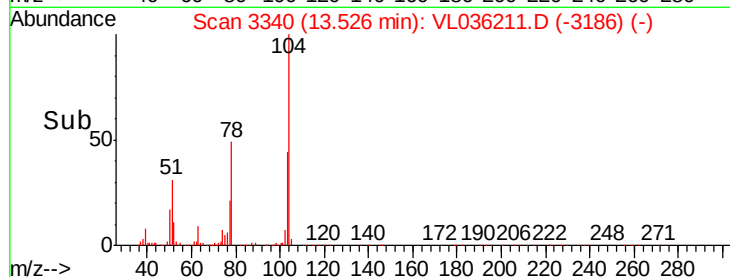
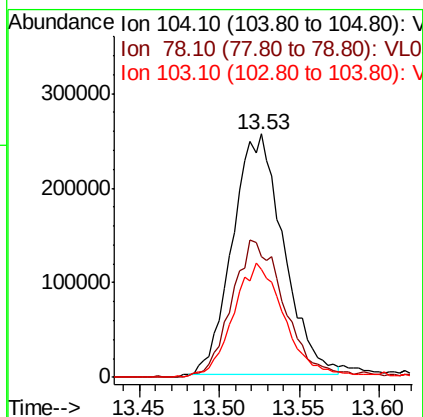
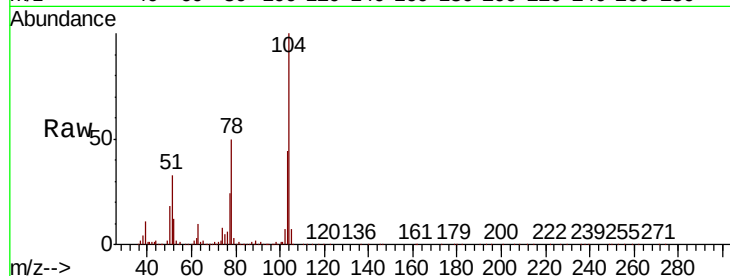




#61
Stvrene
Concen: 2.345 ppbv
RT: 13.53 min Scan# 3340
Delta R.T. -0.00 min
Lab File: VL036211.D
Acq: 13 Jan 2021 3:16

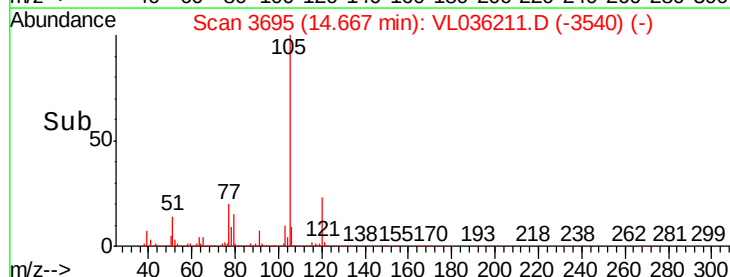
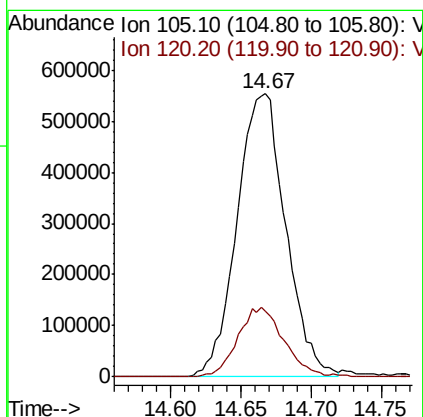
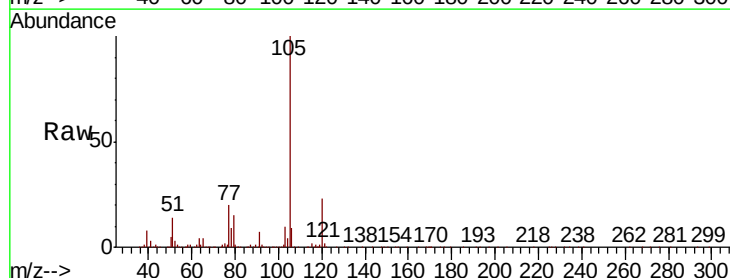
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

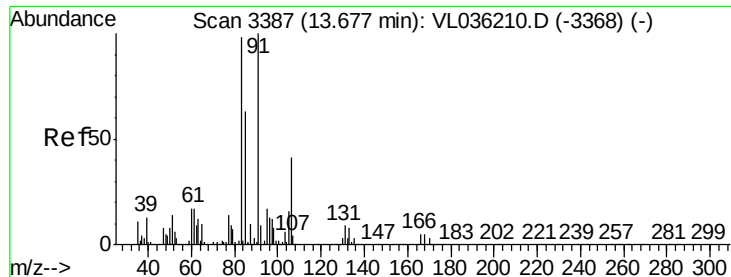
Tot Ion:104 Resp: 553003
Ion Ratio Lower Upper
104 100
78 60.6 46.8 70.2
103 48.3 38.4 57.6



#62
Isopropylbenzene
Concen: 2.463 ppbv
RT: 14.67 min Scan# 3695
Delta R.T. -0.00 min
Lab File: VL036211.D
Acq: 13 Jan 2021 3:16

Tgt Ion:105 Resp: 1331133
Ion Ratio Lower Upper
105 100
120 23.7 20.3 30.5

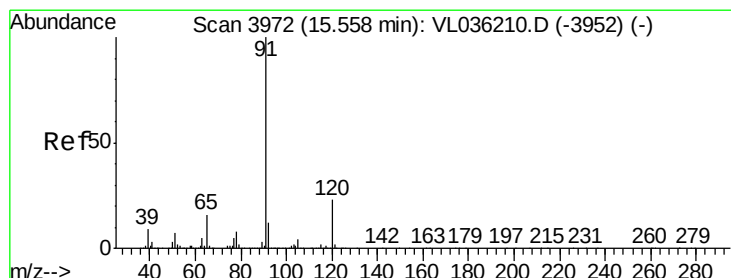
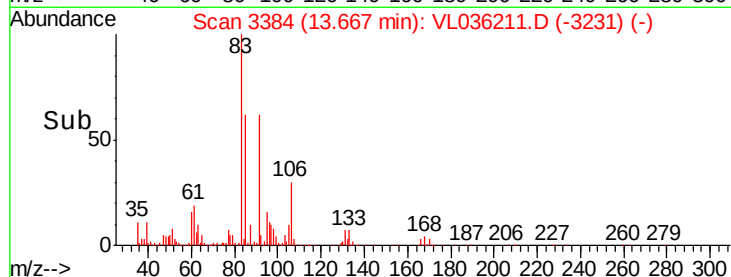
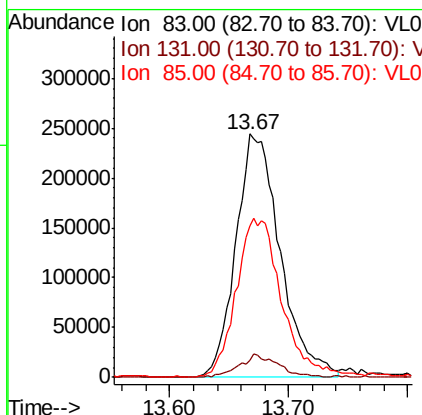
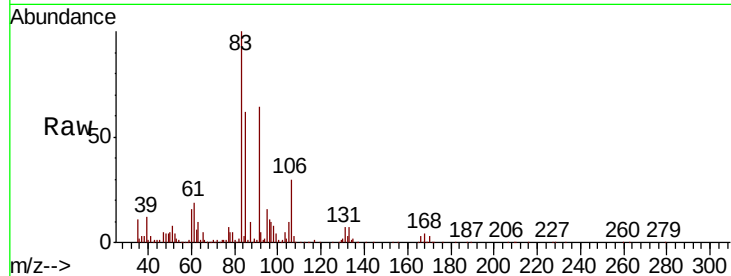




#63
 1,1,2,2-Tetrachloroethane
 Concen: 2.555 ppbv
 RT: 13.67 min Scan# 3384
 Delta R.T. -0.01 min
 Lab File: VL036211.D
 Acq: 13 Jan 2021 3:16

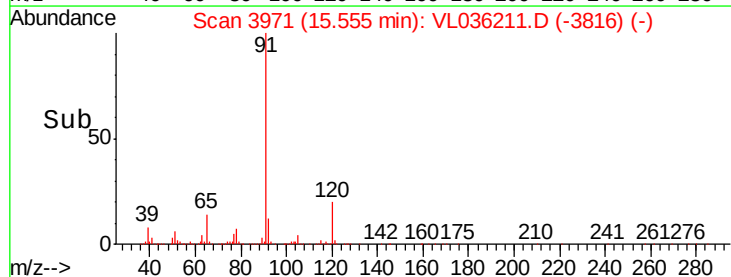
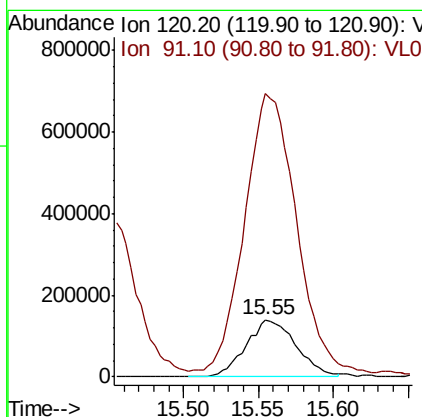
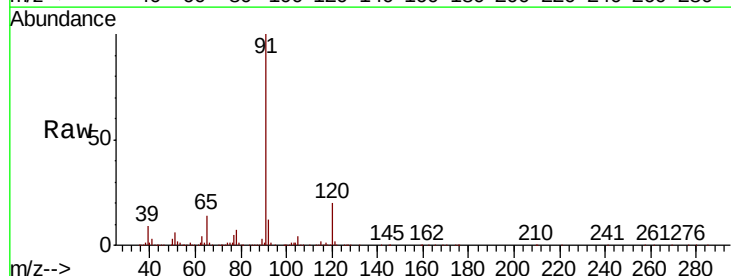
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

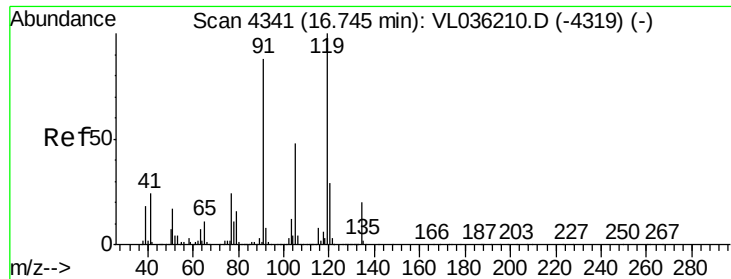
Tot Ion	83	Resp	630423
Ion Ratio	Lower	Upper	
83	100		
131	8.7	4.5	13.5
85	67.7	33.1	99.3



#64
 n-propylbenzene
 Concen: 2.477 ppbv
 RT: 15.55 min Scan# 3971
 Delta R.T. -0.00 min
 Lab File: VL036211.D
 Acq: 13 Jan 2021 3:16

Tgt Ion	120	Resp	324102
Ion Ratio	Lower	Upper	
120	100		
91	533.7	391.8	587.6





#65

tert-Butylbenzene

Concen: 2.661 ppbv

RT: 16.74 min Scan# 4340

Delta R.T. -0.00 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

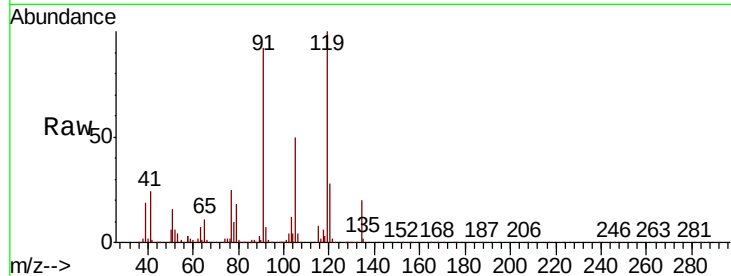
Tot Ion:119 Resp: 1182762

Ion Ratio Lower Upper

119 100

91 89.2 71.0 106.6

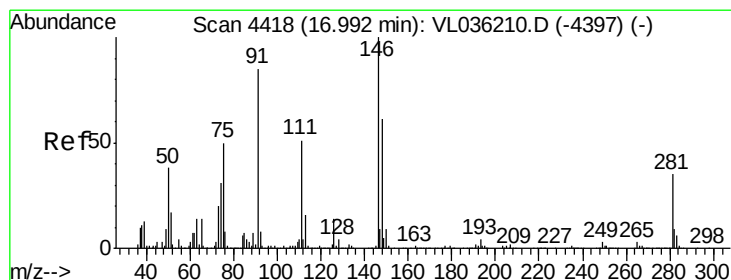
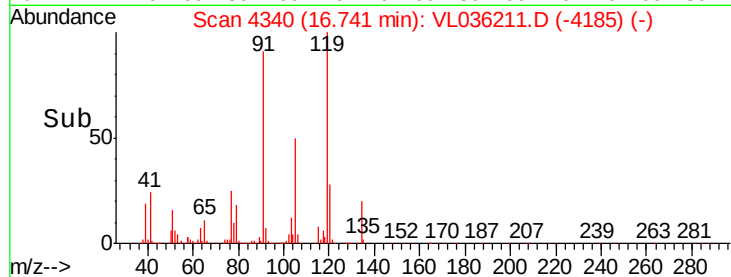
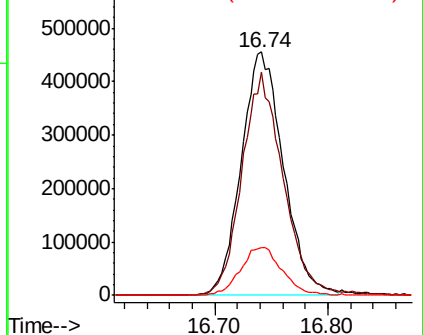
134 19.5 15.8 23.6



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: 2.309 ppbv

RT: 16.99 min Scan# 4417

Delta R.T. -0.00 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

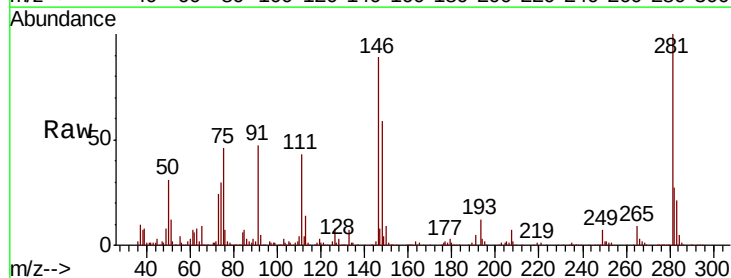
Tgt Ion: 91 Resp: 263357

Ion Ratio Lower Upper

91 100

126 16.5 12.6 19.0

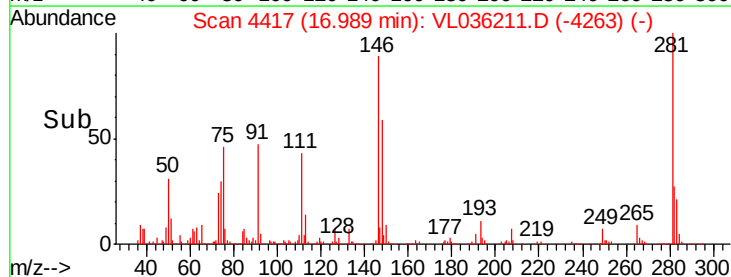
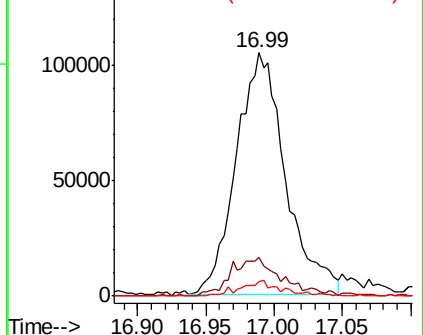
128 5.6 3.8 5.6

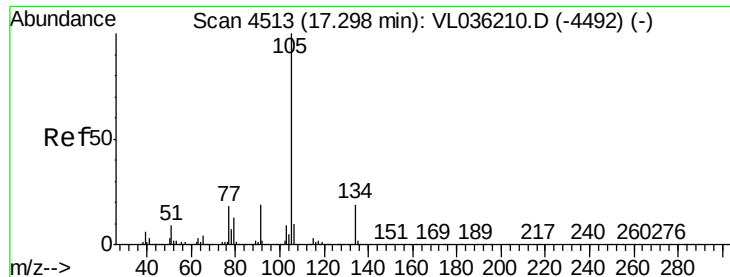


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 2.741 ppbv

RT: 17.29 min Scan# 4511

Delta R.T. -0.01 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

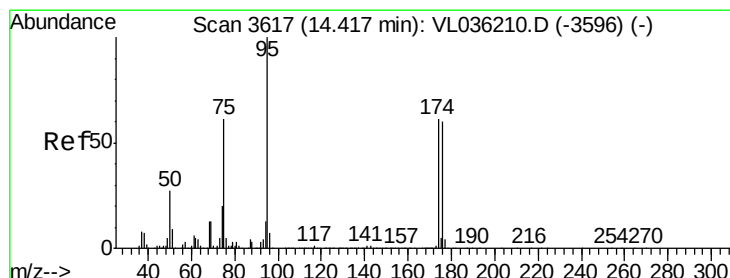
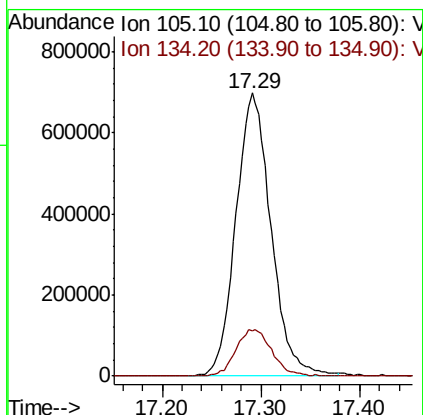
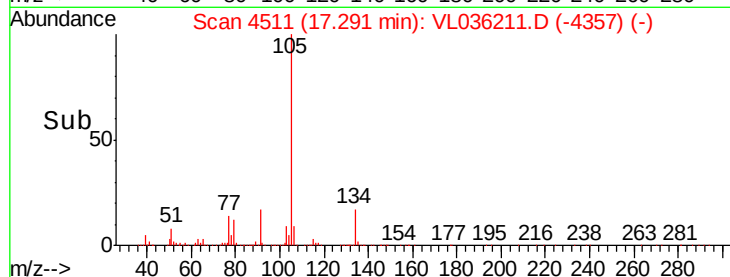
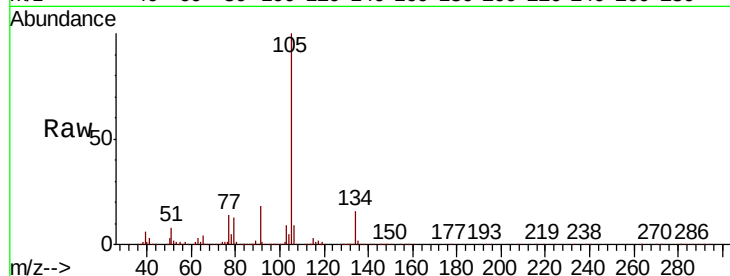
VSTDIC002

Tot Ion:105 Resp: 1722041

Ion Ratio Lower Upper

105 100

134 17.0 14.2 21.4



#68

1-Bromo-4-Fluorobenzene

Concen: 10.030 ppbv

RT: 14.41 min Scan# 3615

Delta R.T. -0.01 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

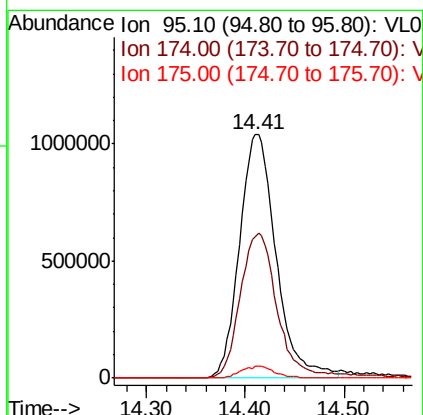
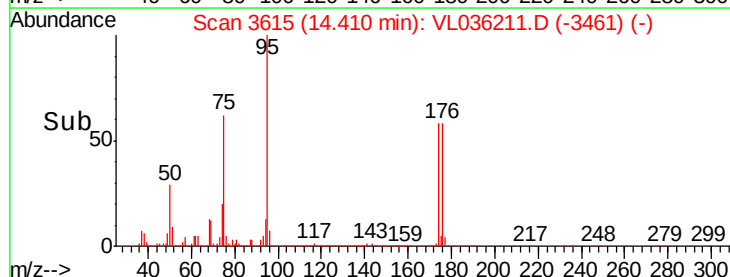
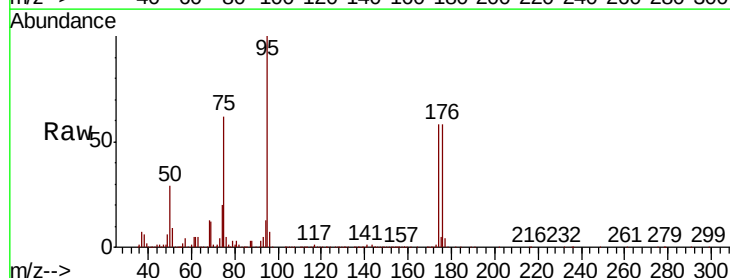
Tgt Ion: 95 Resp: 2670780

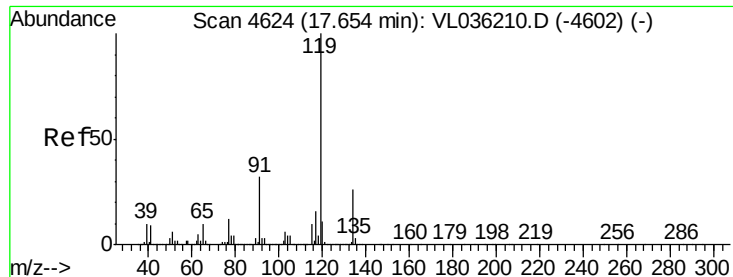
Ion Ratio Lower Upper

95 100

174 61.9 49.4 74.0

175 4.6 3.8 5.8

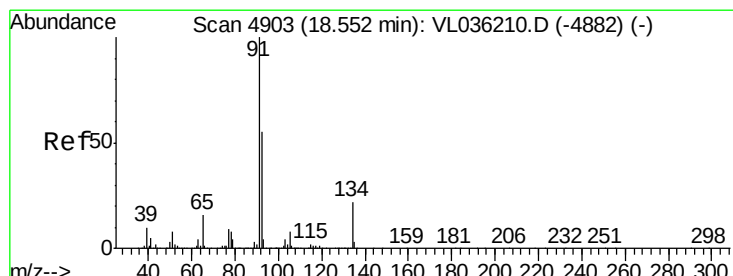
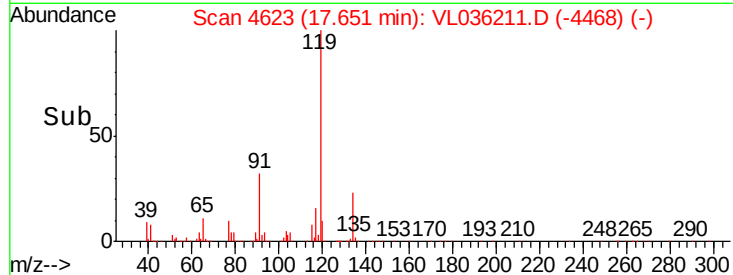
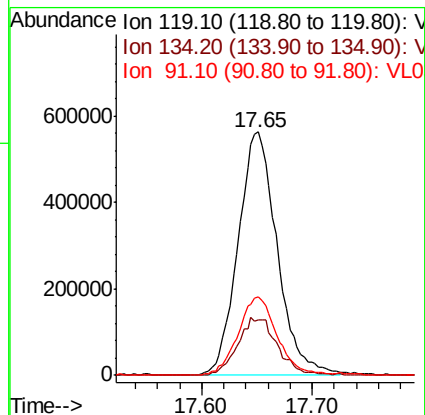
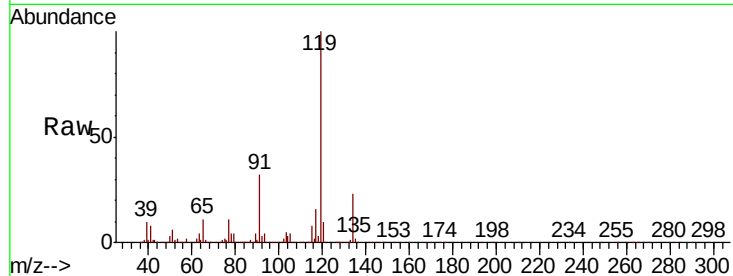




#69
 p-Isopropyltoluene
 Concen: 2.761 ppbv
 RT: 17.65 min Scan# 4623
 Delta R.T. -0.00 min
 Lab File: VL036211.D
 Acq: 13 Jan 2021 3:16

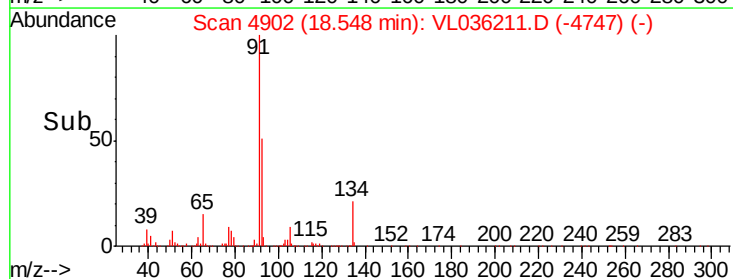
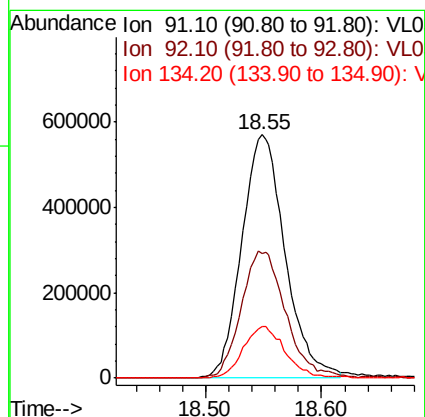
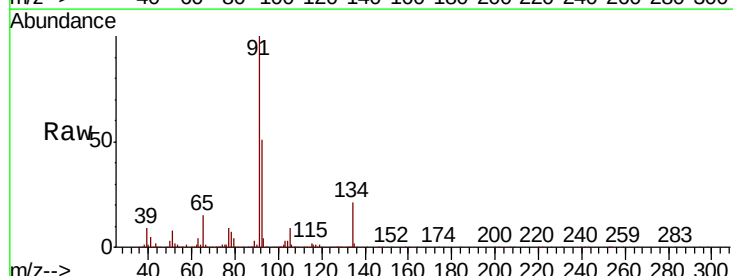
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

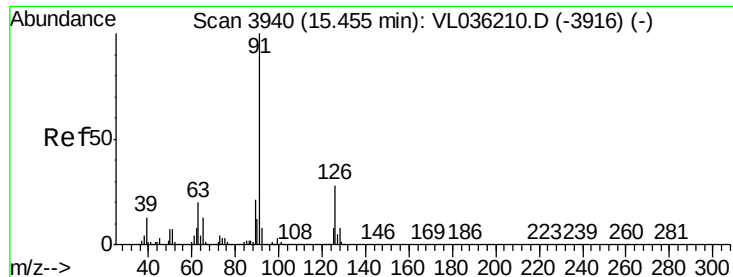
Tot Ion: 119 Resp: 1381269
 Ion Ratio Lower Upper
 119 100
 134 24.2 20.2 30.4
 91 32.7 26.0 39.0



#70
 n-Butylbenzene
 Concen: 2.935 ppbv
 RT: 18.55 min Scan# 4902
 Delta R.T. -0.00 min
 Lab File: VL036211.D
 Acq: 13 Jan 2021 3:16

Tgt Ion: 91 Resp: 1476713
 Ion Ratio Lower Upper
 91 100
 92 53.9 44.0 66.0
 134 20.8 17.0 25.4





#71

2-Chlorotoluene

Concen: 2.517 ppbv

RT: 15.45 min Scan# 3938

Delta R.T. -0.01 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

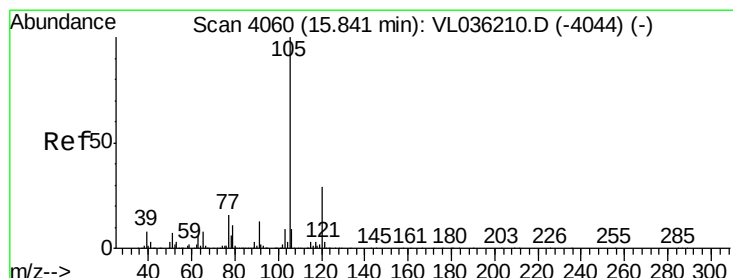
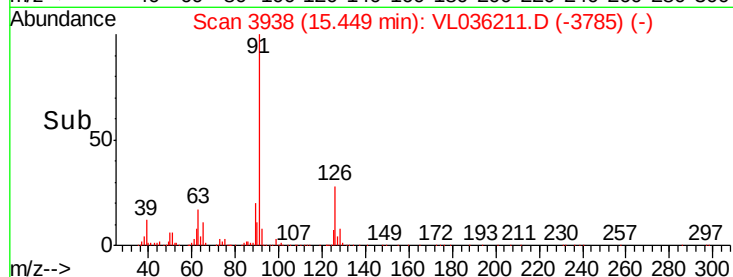
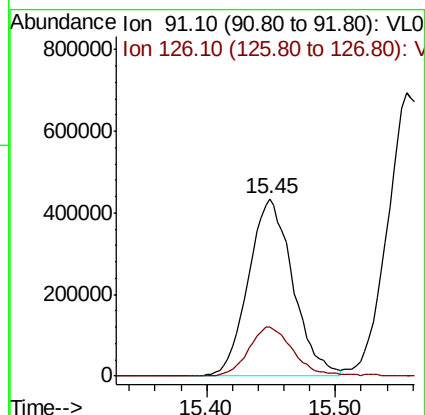
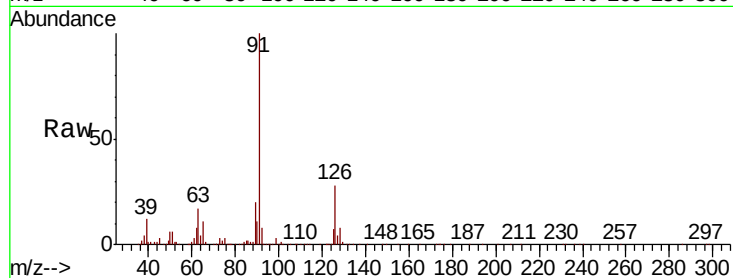
VSTDIC002

Tot Ion: 91 Resp: 1039150

Ion Ratio Lower Upper

91 100

126 28.3 11.5 45.9



#72

4-Ethyltoluene

Concen: 2.554 ppbv

RT: 15.83 min Scan# 4058

Delta R.T. -0.01 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

Tgt Ion:105 Resp: 1017685

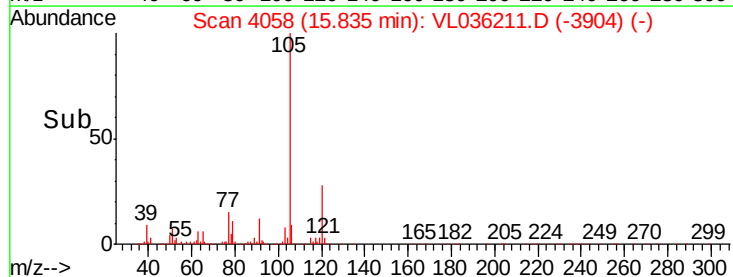
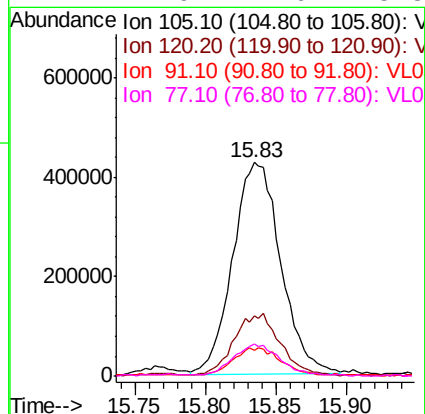
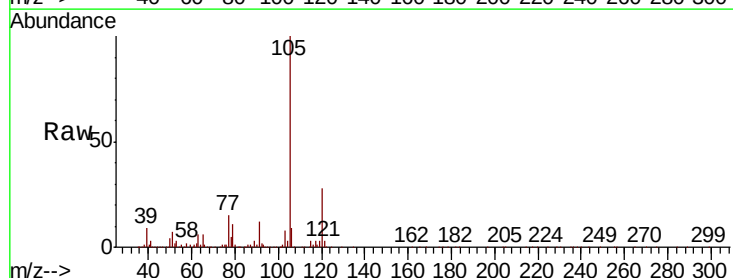
Ion Ratio Lower Upper

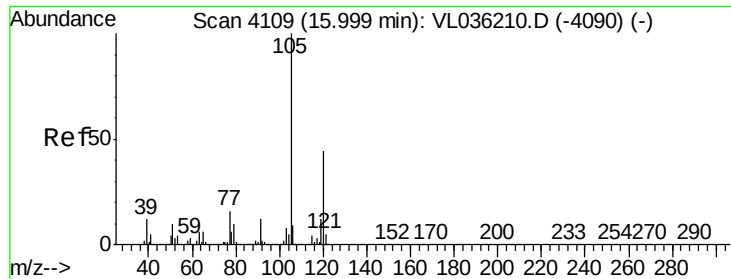
105 100

120 28.6 23.7 35.5

91 13.6 11.9 17.9

77 14.9 12.6 18.8





#73

1,3,5-Trimethylbenzene

Concen: 2.505 ppbv

RT: 16.00 min Scan# 4108

Delta R.T. -0.00 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

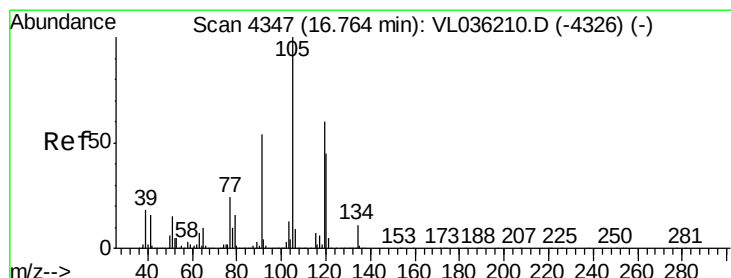
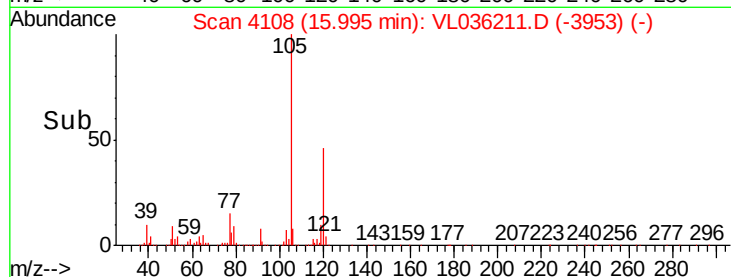
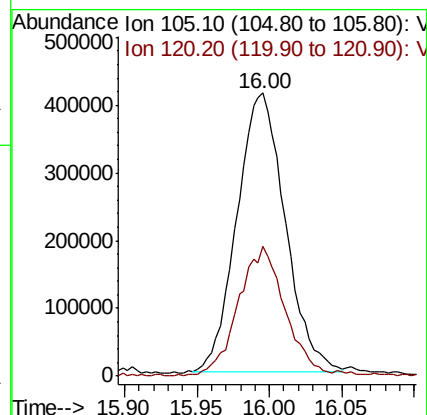
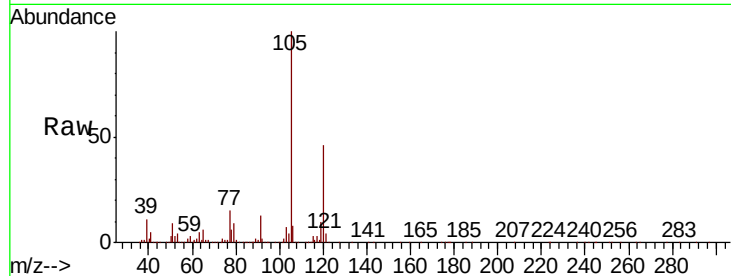
VSTDIC002

Tot Ion:105 Resp: 955543

Ion Ratio Lower Upper

105 100

120 46.0 35.5 53.3



#74

1,2,4-Trimethylbenzene

Concen: 2.659 ppbv

RT: 16.76 min Scan# 4346

Delta R.T. -0.00 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

Tgt Ion:105 Resp: 1017160

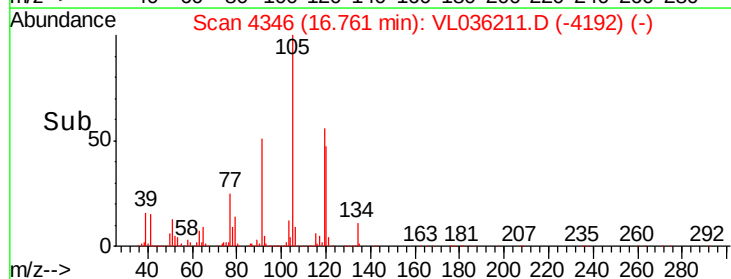
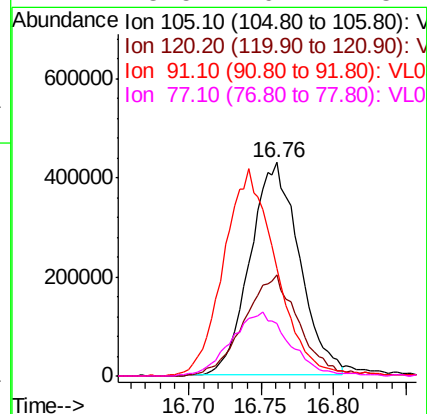
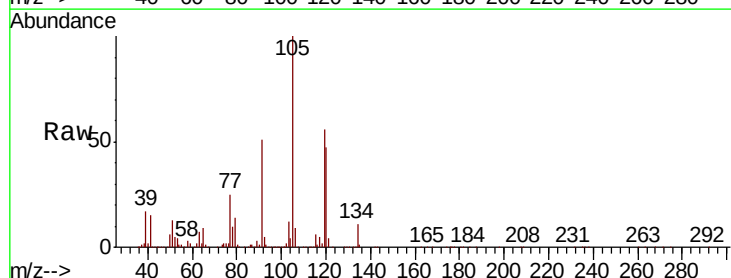
Ion Ratio Lower Upper

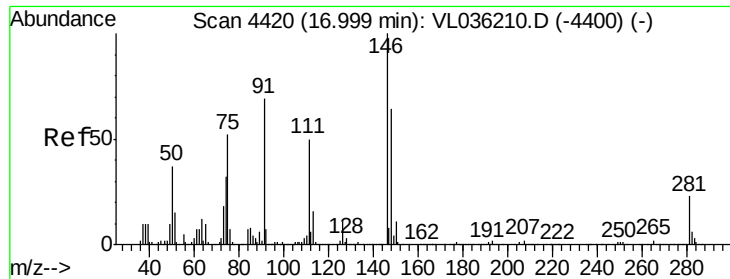
105 100

120 46.7 36.2 54.2

91 48.4 43.3 64.9

77 23.5 19.1 28.7

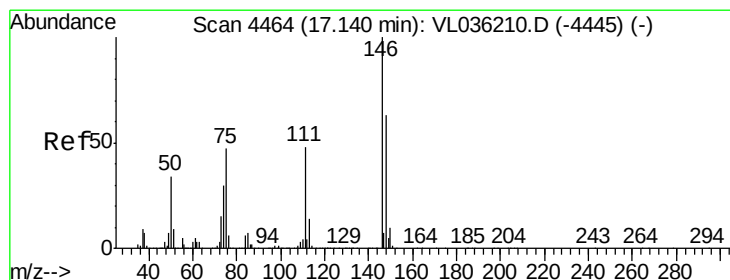
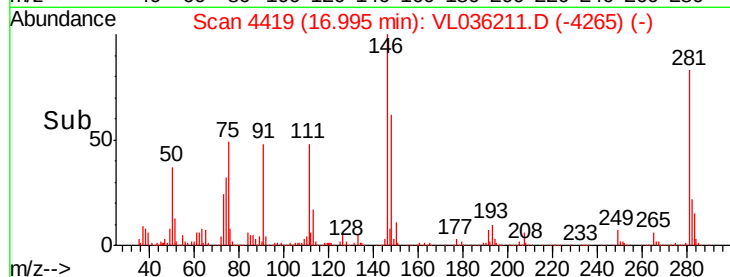
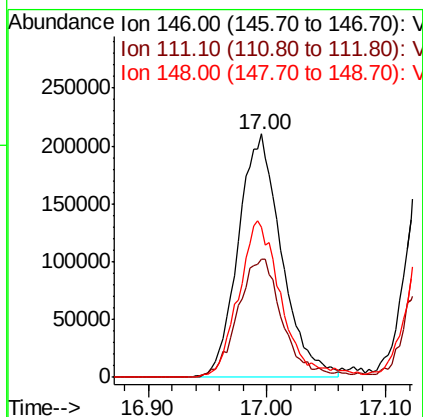
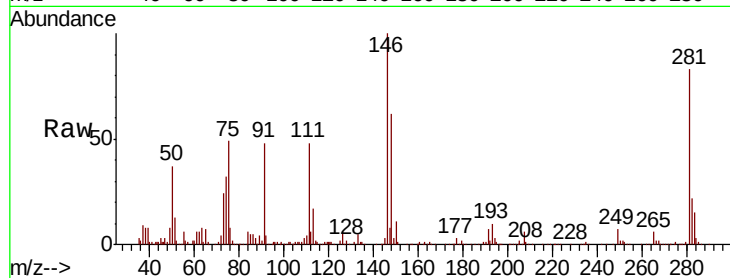




#75
 1,3-Dichlorobenzene
 Concen: 2.742 ppbv
 RT: 17.00 min Scan# 4419
 Delta R.T. -0.00 min
 Lab File: VL036211.D
 Acq: 13 Jan 2021 3:16

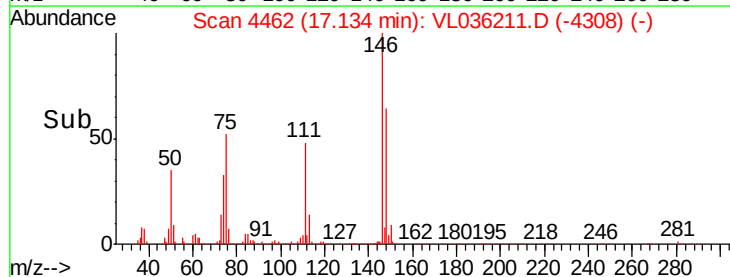
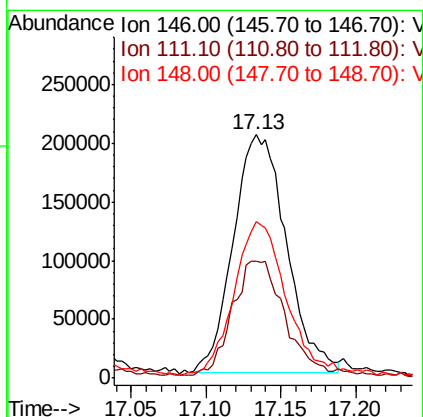
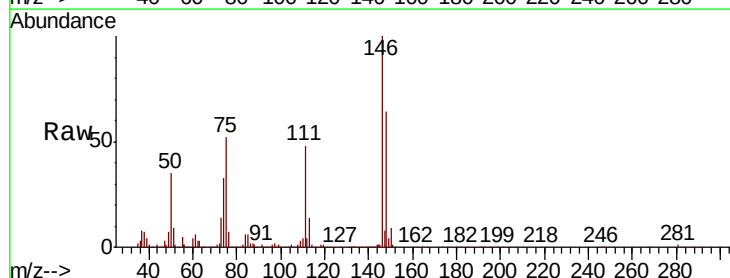
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

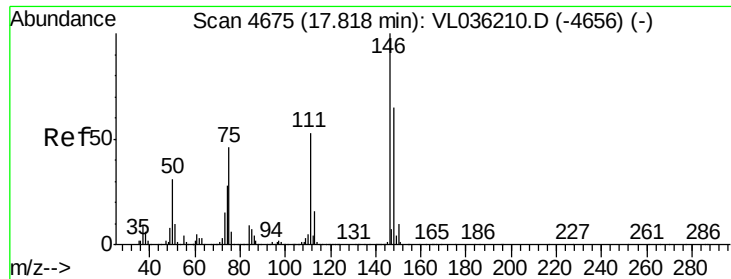
Tot Ion:146 Resp: 529266
 Ion Ratio Lower Upper
 146 100
 111 50.4 25.5 76.5
 148 63.8 32.4 97.2



#76
 1,4-Dichlorobenzene
 Concen: 2.544 ppbv
 RT: 17.13 min Scan# 4462
 Delta R.T. -0.01 min
 Lab File: VL036211.D
 Acq: 13 Jan 2021 3:16

Tgt Ion:146 Resp: 499982
 Ion Ratio Lower Upper
 146 100
 111 51.1 25.4 76.0
 148 67.5 33.3 99.9

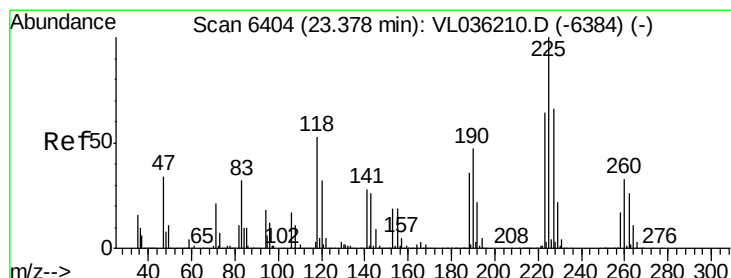
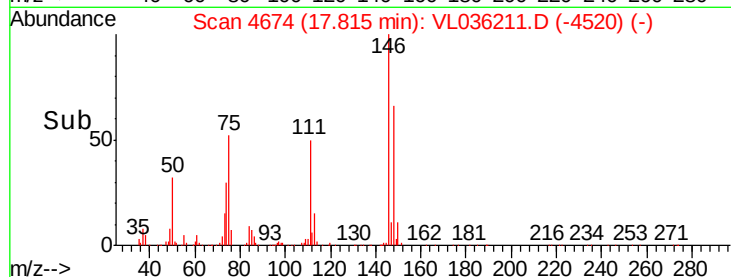
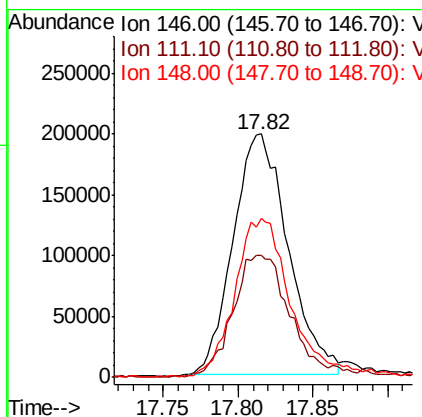
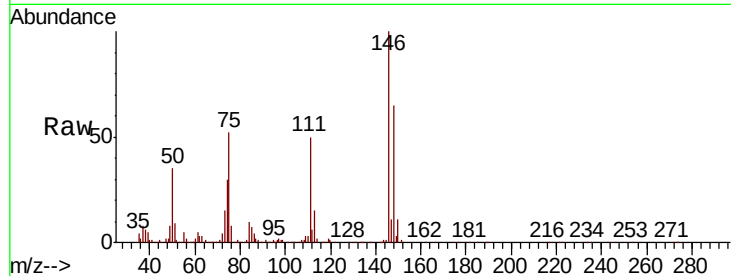




#77
 1,2-Dichlorobenzene
 Concen: 2.686 ppbv
 RT: 17.82 min Scan# 4674
 Delta R.T. -0.00 min
 Lab File: VL036211.D
 Acq: 13 Jan 2021 3:16

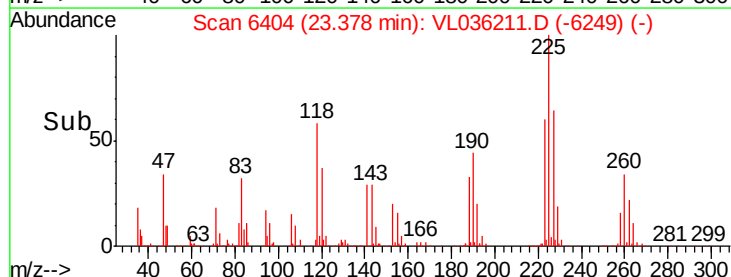
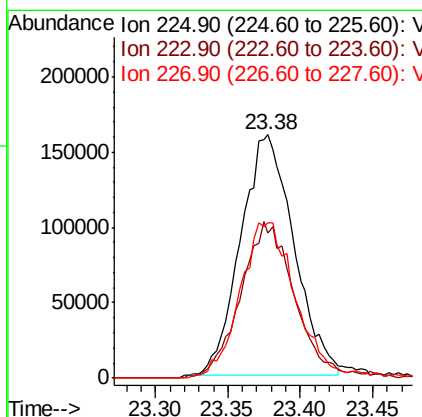
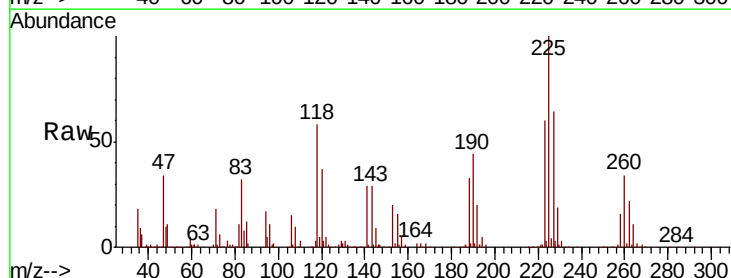
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

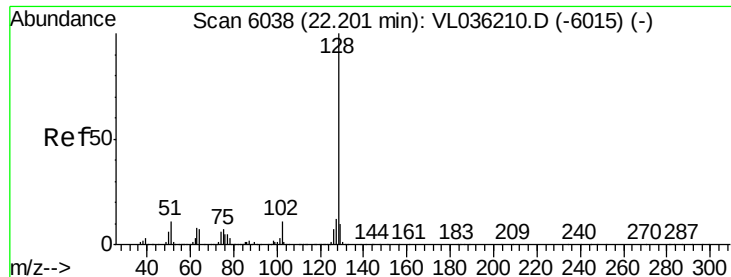
Tot Ion:146 Resp: 502531
 Ion Ratio Lower Upper
 146 100
 111 55.0 26.5 79.4
 148 67.3 32.8 98.4



#78
 Hexachloro-1,3-Butadiene
 Concen: 2.761 ppbv
 RT: 23.38 min Scan# 6404
 Delta R.T. -0.00 min
 Lab File: VL036211.D
 Acq: 13 Jan 2021 3:16

Tgt Ion:225 Resp: 407966
 Ion Ratio Lower Upper
 225 100
 223 66.6 50.5 75.7
 227 68.7 51.7 77.5





#79

Naphthalene

Concen: 1.208 ppbv

RT: 22.20 min Scan# 6037

Delta R.T. -0.00 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

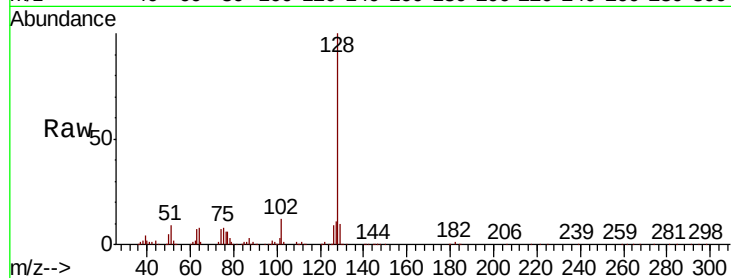
Tot Ion:128 Resp: 247357

Ion Ratio Lower Upper

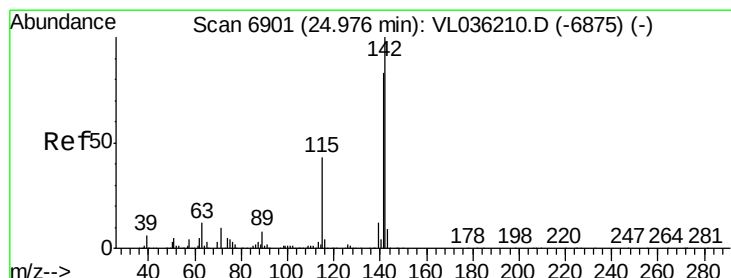
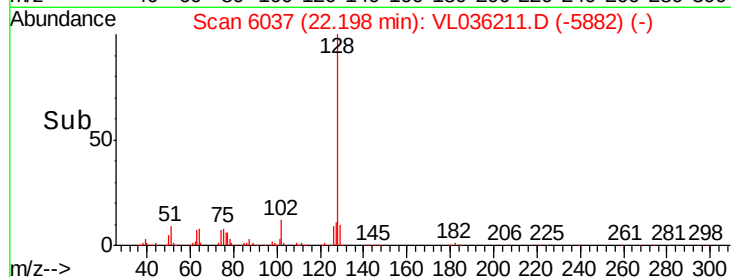
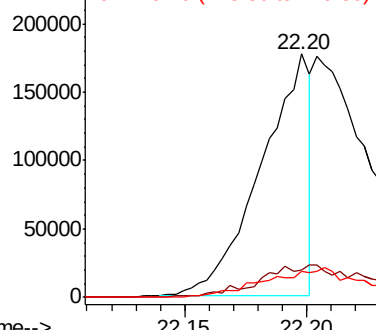
128 100

127 10.9 9.9 14.9

129 10.4 8.4 12.6



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: 2.433 ppbv

RT: 24.99 min Scan# 6905

Delta R.T. 0.01 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

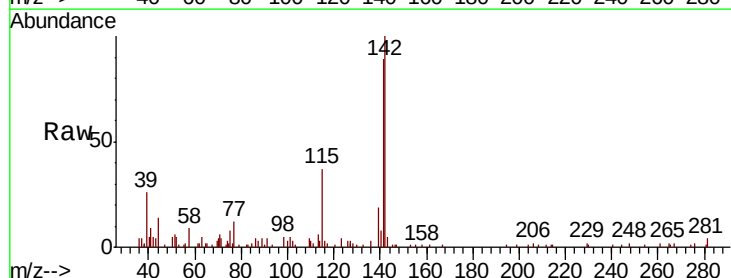
Tgt Ion:142 Resp: 101754

Ion Ratio Lower Upper

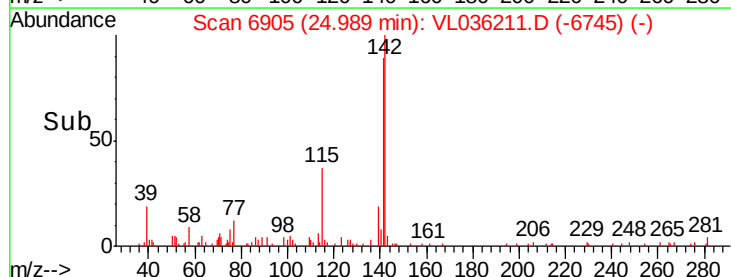
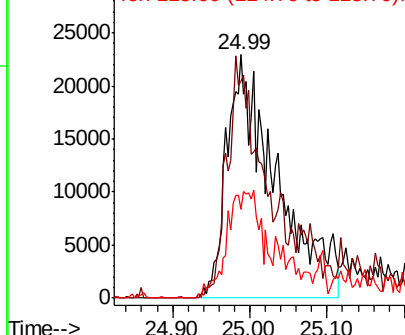
142 100

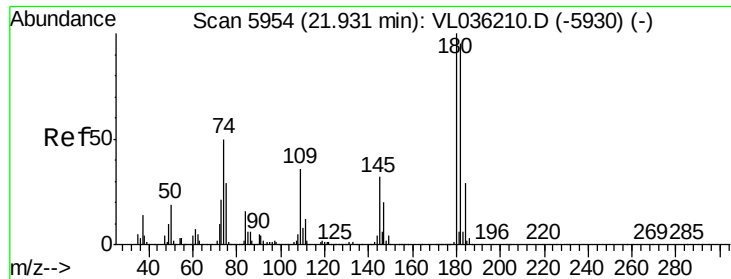
141 87.7 68.6 102.8

115 30.6 32.9 49.3#



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: 0.288 ppbv

RT: 21.92 min Scan# 5952

Delta R.T. -0.01 min

Lab File: VL036211.D

Acq: 13 Jan 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:180 Resp: 37470

Ion Ratio Lower Upper

180 100

182 0.0 79.9 119.9#

184 278.0 25.6 38.4#

