

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\
 Data File : VL036952.D
 Acq On : 18 May 2021 3:16
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Quant Time: May 18 07:08:22 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 07:06:50 2021
 QLast Update : Tue May 18 07:06:50 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1343541	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3960223	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3791035	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2816128	9.53	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	272101	1.187	ppbv	100
3) Chlorodifluoromethane	2.97	51	272394	1.032	ppbv	99
4) Chloromethane	3.13	50	90786	1.052	ppbv	95
5) Vinyl Chloride	3.24	62	91398	0.972	ppbv	98
6) Bromomethane	3.46	94	47128	0.994	ppbv	97
7) Chloroethane	3.55	64	29162	0.963	ppbv #	87
8) Dichlorotetrafluoroethane	3.17	85	242178	1.120	ppbv	100
9) Propene	2.99	41	94335	1.253	ppbv	95
10) Heptane	8.10	43	242694	1.354	ppbv	99
11) Trichlorofluoromethane	3.93	101	230958	1.120	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.47	101	160740	1.153	ppbv	100
13) Ethanol	3.61	45	10302	0.721	ppbv #	56
14) Bromoethene	3.72	108	64633	1.156	ppbv #	89
15) Acetone	3.84	43	139759	1.108	ppbv #	70
16) 1,3-Butadiene	3.31	39	88679	1.086	ppbv	96
17) tert-Butyl alcohol	4.30	59	134898	1.157	ppbv #	94
18) 1,1-Dichloroethene	4.27	96	72711	1.270	ppbv	95
19) Isopropyl Alcohol	3.98	45	63790	0.887	ppbv #	21
20) Methylene Chloride	4.33	84	73259	0.711	ppbv	94
21) Allyl Chloride	4.39	41	110112	1.185	ppbv	100
22) trans-1,2-Dichloroethene	4.86	96	58753	1.000	ppbv	95
23) Vinyl Acetate	5.06	43	211668	1.180	ppbv #	96
24) 1,1-Dichloroethane	4.99	63	170198	1.248	ppbv	99
25) Ethyl Acetate	5.67	43	353062	1.133	ppbv	98
26) Hexane	5.67	57	188368	1.177	ppbv	98
27) Carbon Disulfide	4.53	76	184353	1.300	ppbv	97
28) Methyl tert-Butyl Ether	5.02	73	215711	1.394	ppbv	97
29) Chloroform	5.73	83	246362	1.026	ppbv	99
30) Cyclohexane	7.11	84	152132	1.242	ppbv #	68
31) cis-1,2-Dichloroethene	5.53	61	165099	1.316	ppbv	97
32) 1,1,1-Trichloroethane	6.49	97	266475	1.041	ppbv	98
34) 2-Butanone	5.24	43	148349	0.980	ppbv #	90
35) Carbon Tetrachloride	7.00	117	268600	0.868	ppbv	94
36) Benzene	6.87	78	366622	1.152	ppbv	96
37) 1,2-Dichloroethane	6.28	62	174008	0.922	ppbv	98
38) Trichloroethene	7.81	130	142927	1.095	ppbv	98
39) 1,2-Dichloropropane	7.59	63	62756	0.482	ppbv	92
41) Tetrahydrofuran	6.05	42	79930	1.292	ppbv	92
42) Bromodichloromethane	7.77	83	266381	0.959	ppbv	96
43) Methyl Methacrylate	8.00	69	120753	1.304	ppbv	95
44) 2,2,4-Trimethylpentane	7.84	57	650579	1.150	ppbv	98

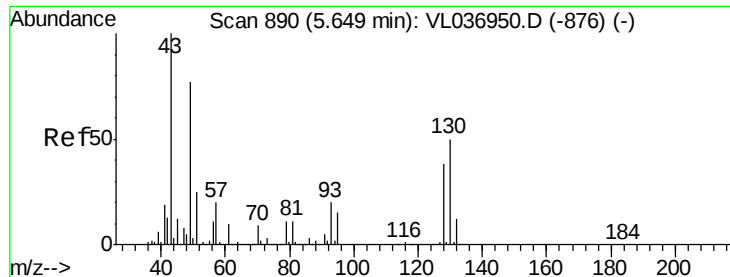
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 07:06:50 2021
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) t-1,3-Dichloropropene	9.25	75	47613	0.570	ppbv	98
46) cis-1,3-Dichloropropene	8.68	75	128044	1.094	ppbv	90
47) 1,1,2-Trichloroethane	9.45	97	143472	1.004	ppbv	97
48) Dibromochloromethane	10.28	129	230980	1.074	ppbv	98
49) Bromoform	13.01	173	175144	0.989	ppbv	95
50) 4-Methyl-2-Pentanone	8.74	43	235217	1.135	ppbv	96
51) 2-Hexanone	10.13	43	45868	0.519	ppbv #	27
52) Tetrachloroethene	11.20	164	148673	1.271	ppbv	98
53) Toluene	9.78	91	436197	1.375	ppbv	100
54) 1,2-Dibromoethane	10.59	107	206626	1.107	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.10	131	173357	0.995	ppbv #	1
57) Chlorobenzene	12.12	112	328955	1.028	ppbv	94
58) Ethyl Benzene	12.69	91	577287	1.281	ppbv	95
59) m/p-Xylene	12.97	91	433600	1.024	ppbv #	16
60) o-Xylene	13.67	91	472865	1.154	ppbv	100
61) Styrene	13.50	104	242508	1.442	ppbv	96
62) Isopropylbenzene	14.64	105	673104	1.205	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.65	83	308078	0.796	ppbv	98
64) n-propylbenzene	15.54	120	165732	1.199	ppbv	75
65) tert-Butylbenzene	16.72	119	607517	1.226	ppbv	98
66) Benzyl Chloride	16.97	91	5843	0.130	ppbv #	46
67) sec-Butylbenzene	17.27	105	841652	1.203	ppbv	98
69) p-Isopropyltoluene	17.63	119	717857	1.348	ppbv	99
70) n-Butylbenzene	18.53	91	656757	1.230	ppbv	98
71) 2-Chlorotoluene	15.43	91	469249	1.175	ppbv	99
72) 4-Ethyltoluene	15.82	105	543015	1.280	ppbv	99
73) 1,3,5-Trimethylbenzene	15.97	105	493390	1.190	ppbv	99
74) 1,2,4-Trimethylbenzene	16.74	105	545399	1.198	ppbv	91
75) 1,3-Dichlorobenzene	16.97	146	309974	1.050	ppbv	97
76) 1,4-Dichlorobenzene	17.11	146	296182	1.123	ppbv	97
77) 1,2-Dichlorobenzene	17.79	146	299634	1.121	ppbv	96
78) Hexachloro-1,3-Butadiene	23.36	225	269289	1.128	ppbv	97
79) Naphthalene	22.18	128	385227	1.873	ppbv	97
80) Naphthalene,2-methyl-	25.03	142	23907	0.793	ppbv	89
81) 1,2,4-Trichlorobenzene	21.90	180	129167	0.878	ppbv #	9

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.00 min

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MSVOA_L

ClientSampleId :

VSTDIC001

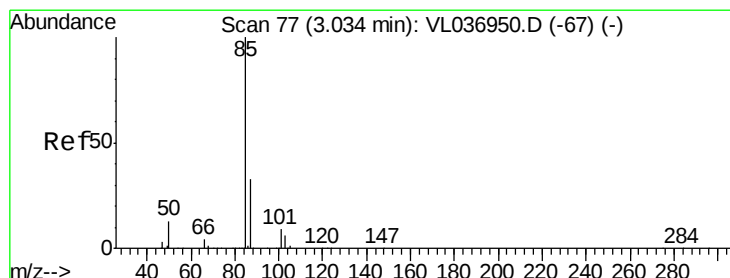
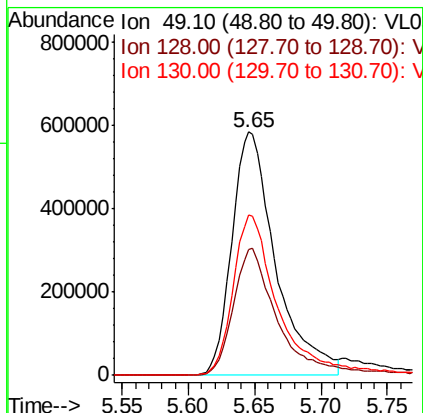
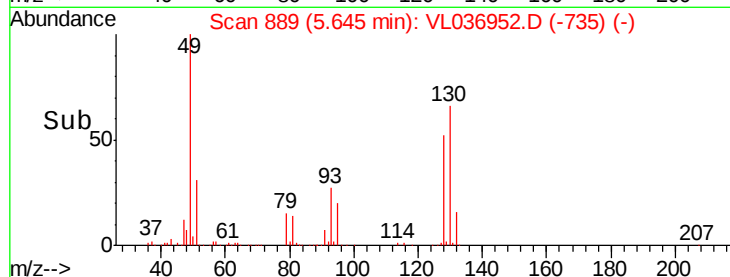
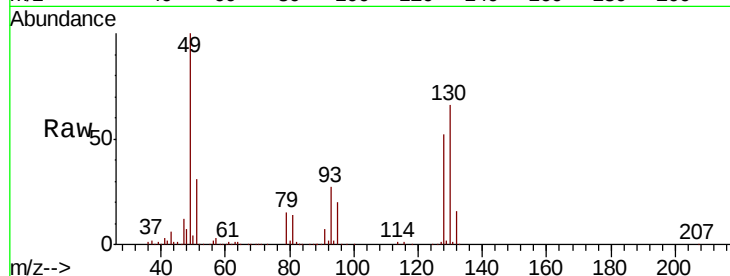
Tot Ion: 49 Resp: 1343541

Ion Ratio Lower Upper

49 100

128 54.6 26.9 80.7

130 70.3 33.8 101.4



#2

Dichlorodifluoromethane

Concen: 1.187 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.00 min

Lab File: VL036952.D

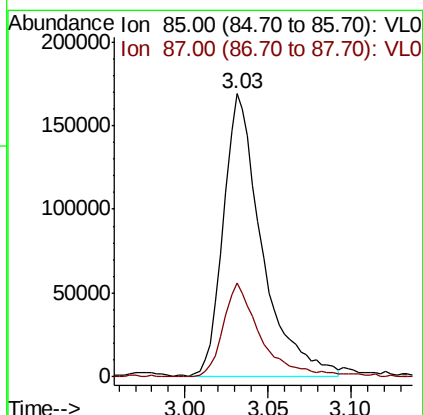
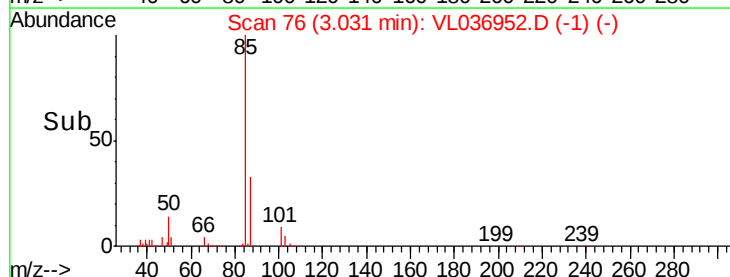
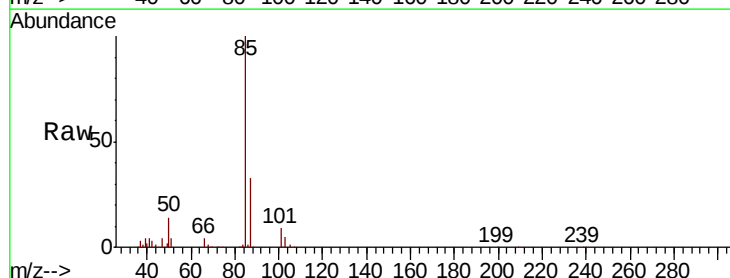
Acq: 18 May 2021 3:16

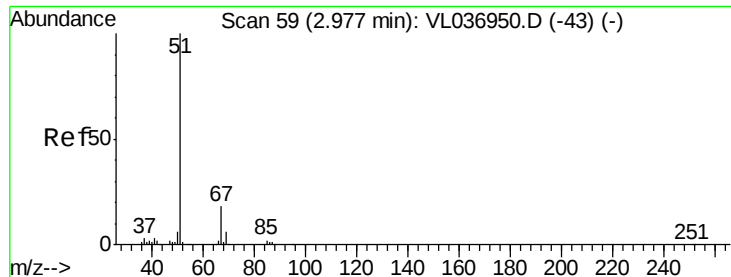
Tgt Ion: 85 Resp: 272101

Ion Ratio Lower Upper

85 100

87 33.1 26.6 39.8





#3

Chlorodifluoromethane

Concen: 1.032 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.00 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

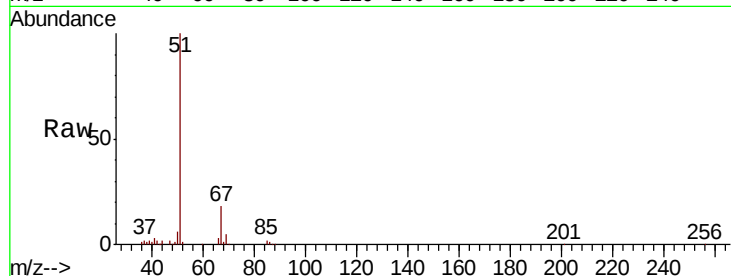
VSTDIC001

Tot Ion: 51 Resp: 272394

Ion Ratio Lower Upper

51 100

67 17.8 14.6 21.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.97

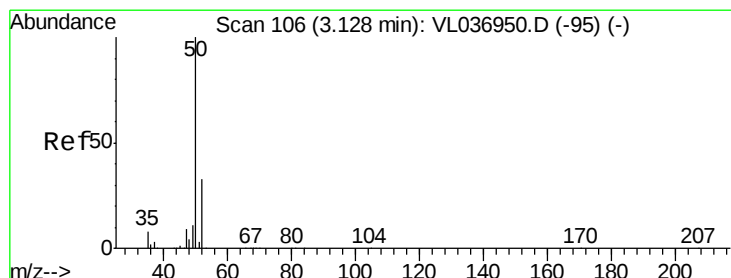
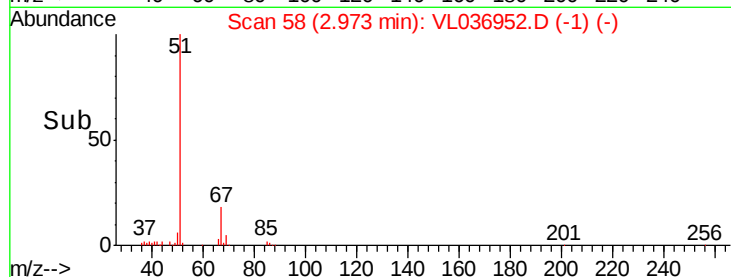
150000

100000

50000

0

Time-->



#4

Chloromethane

Concen: 1.052 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.00 min

Lab File: VL036952.D

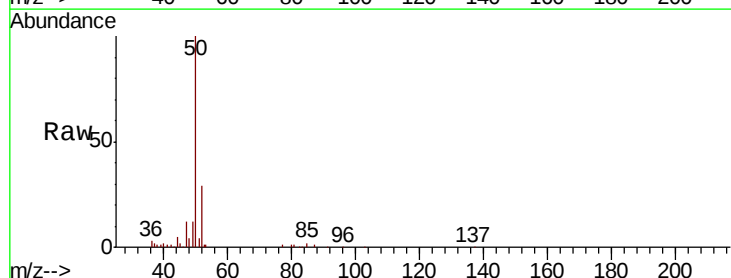
Acq: 18 May 2021 3:16

Tgt Ion: 50 Resp: 90786

Ion Ratio Lower Upper

50 100

52 29.8 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

60000

50000

40000

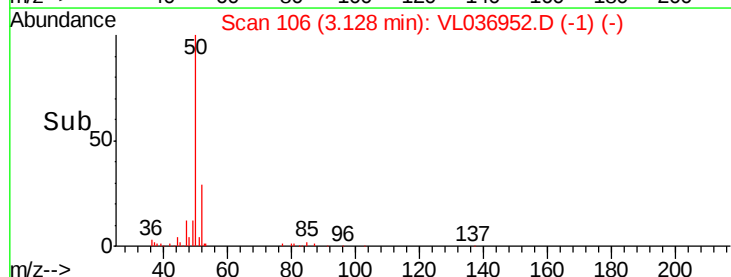
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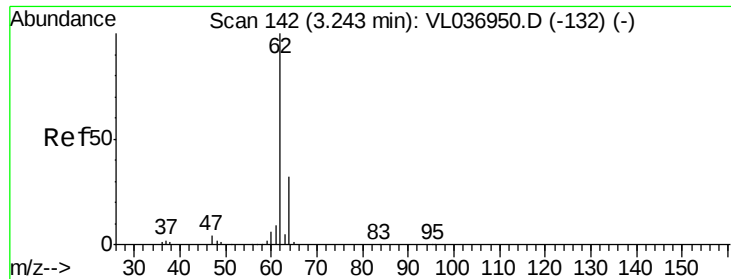
20000

10000

0

Time-->





#5

Vinyl Chloride

Concen: 0.972 ppbv

RT: 3.24 min Scan# 141

Delta R.T. -0.00 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

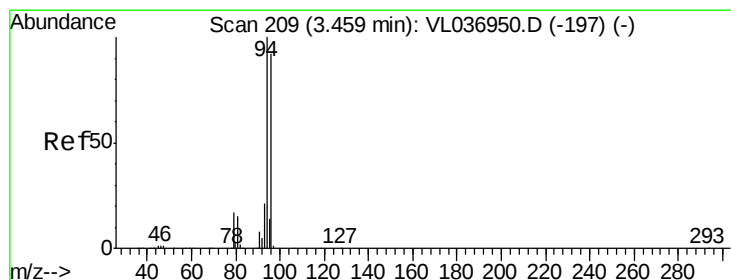
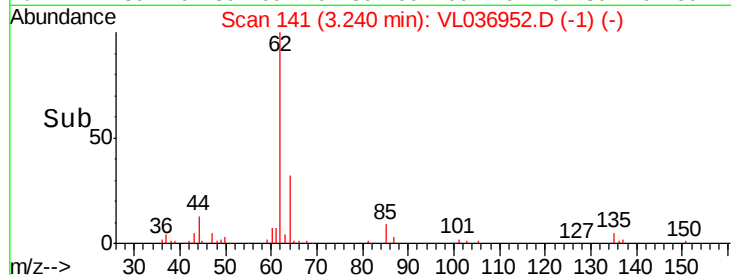
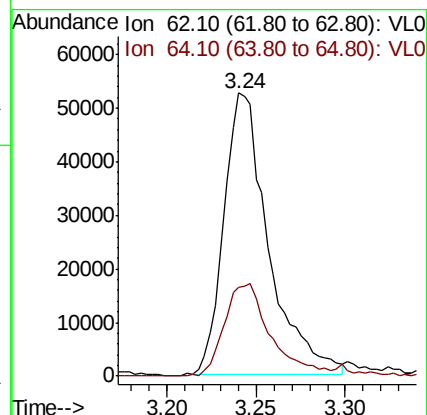
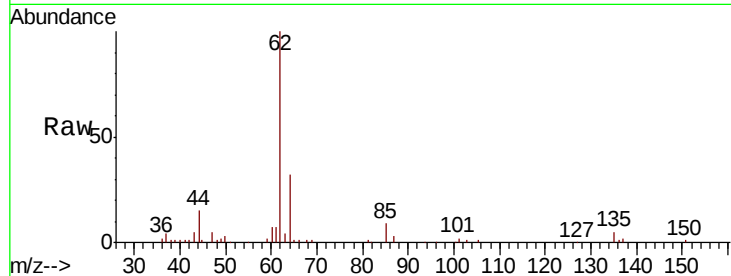
VSTDIC001

Tot Ion: 62 Resp: 91398

Ion Ratio Lower Upper

62 100

64 31.3 25.9 38.9



#6

Bromomethane

Concen: 0.994 ppbv

RT: 3.46 min Scan# 208

Delta R.T. -0.00 min

Lab File: VL036952.D

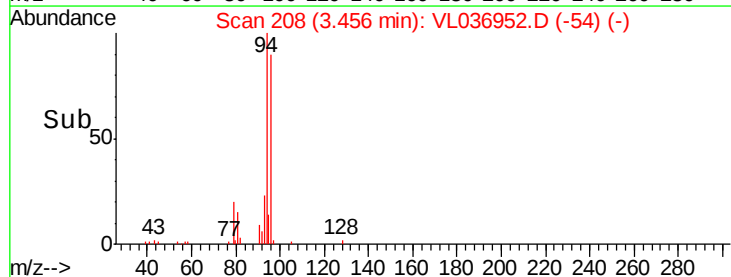
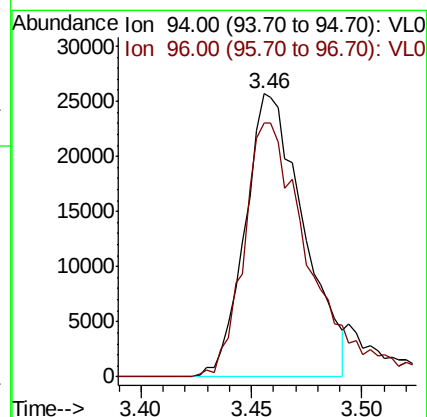
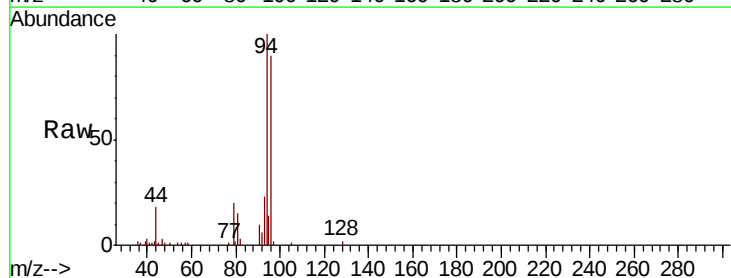
Acq: 18 May 2021 3:16

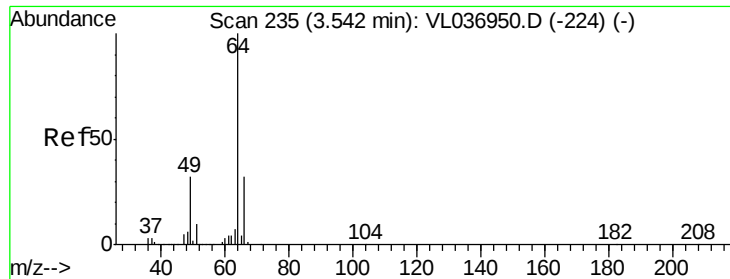
Tgt Ion: 94 Resp: 47128

Ion Ratio Lower Upper

94 100

96 89.7 74.0 111.0





#7

Chloroethane

Concen: 0.963 ppbv

RT: 3.55 min Scan# 236

Delta R.T. 0.00 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

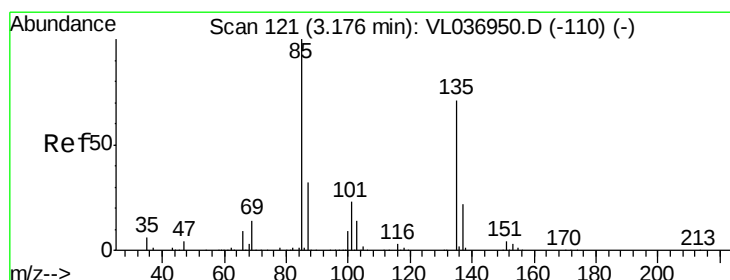
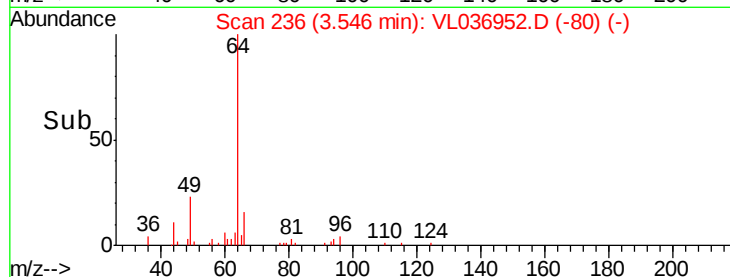
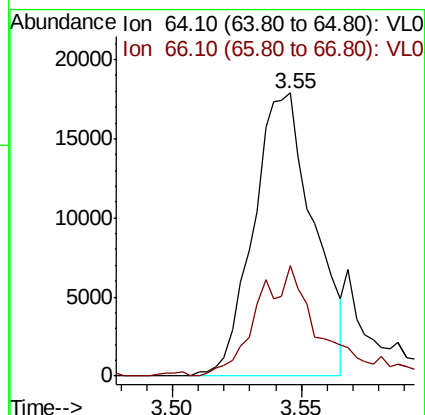
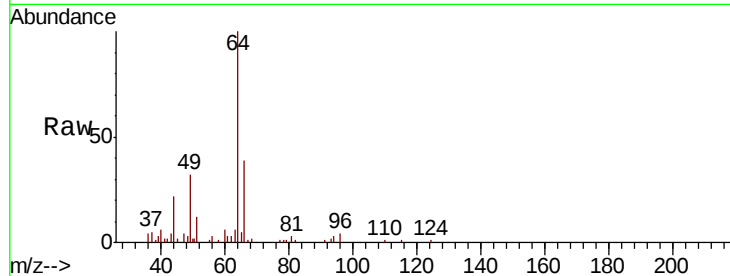
VSTDIC001

Tot Ion: 64 Resp: 29162

Ion Ratio Lower Upper

64 100

66 39.2 25.4 38.2#



#8

Dichlorotetrafluoroethane

Concen: 1.120 ppbv

RT: 3.17 min Scan# 120

Delta R.T. -0.00 min

Lab File: VL036952.D

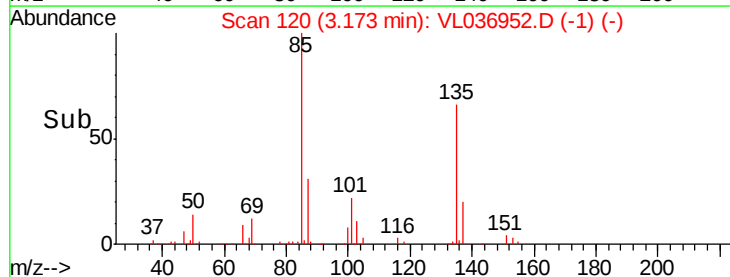
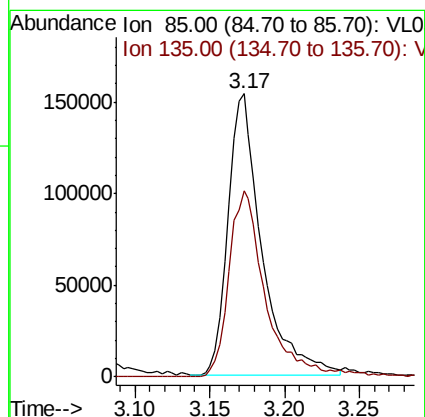
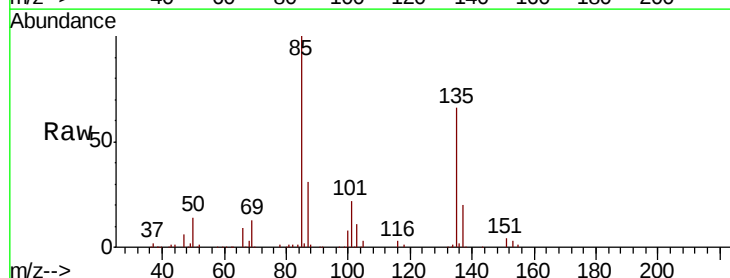
Acq: 18 May 2021 3:16

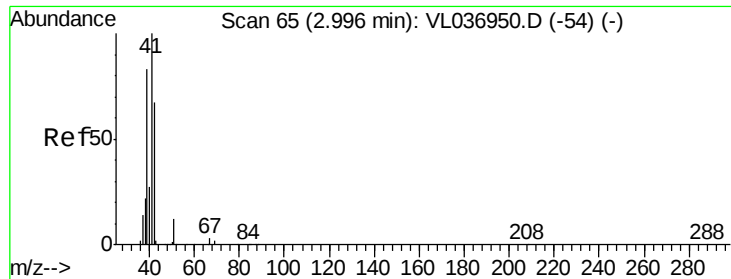
Tgt Ion: 85 Resp: 242178

Ion Ratio Lower Upper

85 100

135 71.9 57.7 86.5





#9

Propene

Concen: 1.253 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.00 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

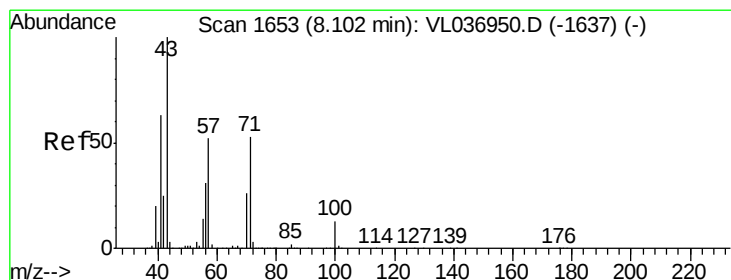
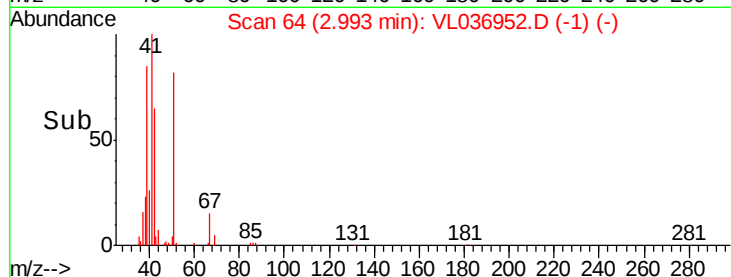
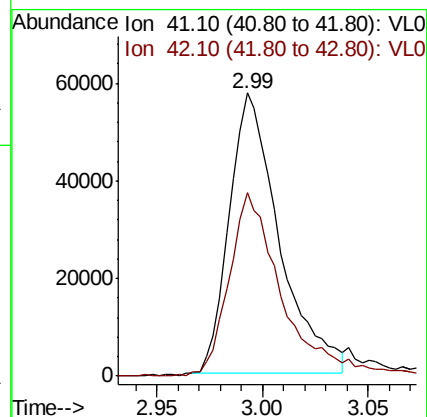
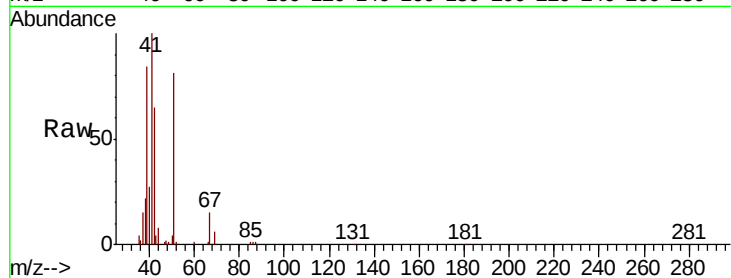
VSTDIC001

Tot Ion: 41 Resp: 94335

Ion Ratio Lower Upper

41 100

42 71.3 53.9 80.9



#10

Heptane

Concen: 1.354 ppbv

RT: 8.10 min Scan# 1652

Delta R.T. -0.00 min

Lab File: VL036952.D

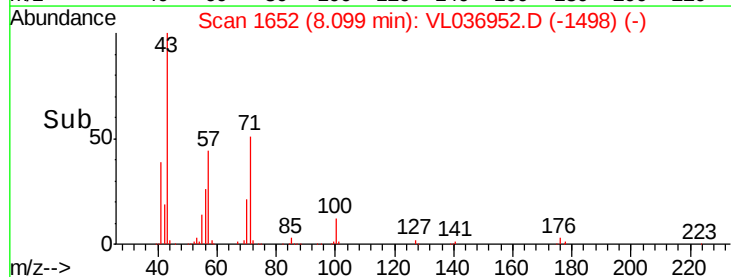
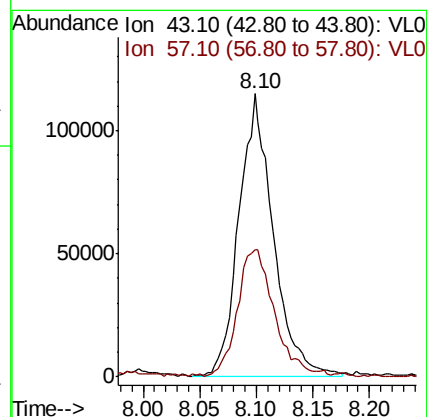
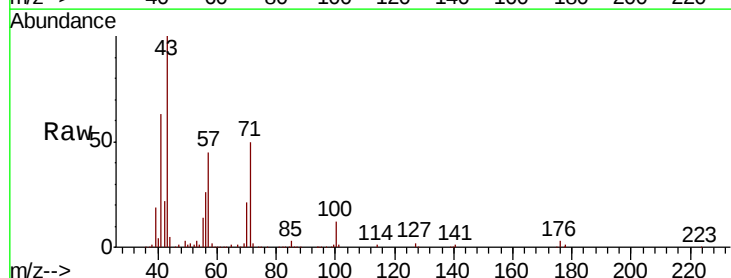
Acq: 18 May 2021 3:16

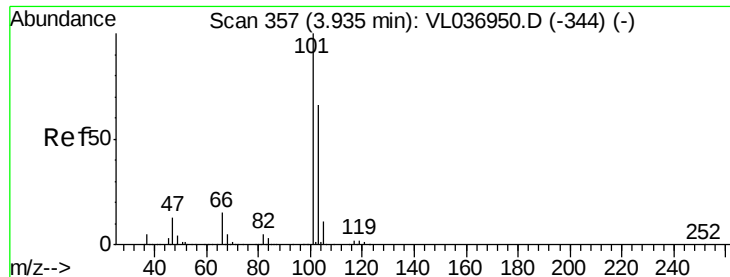
Tgt Ion: 43 Resp: 242694

Ion Ratio Lower Upper

43 100

57 50.3 41.0 61.6

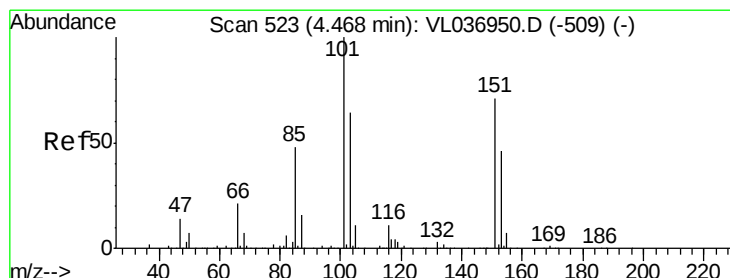
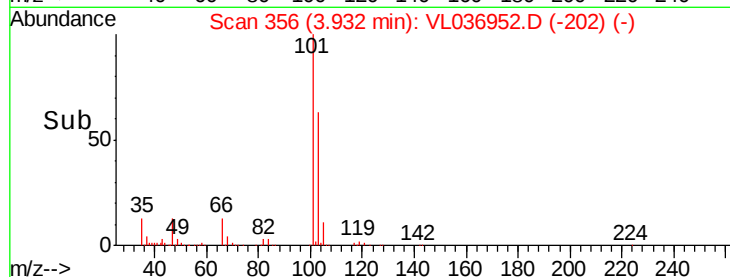
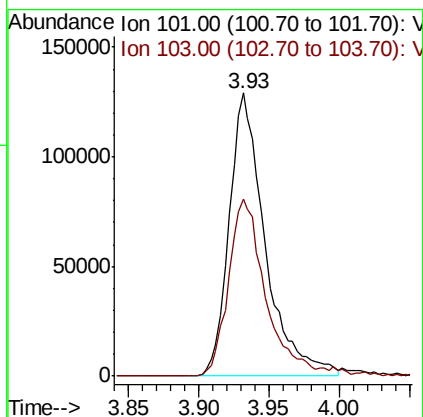
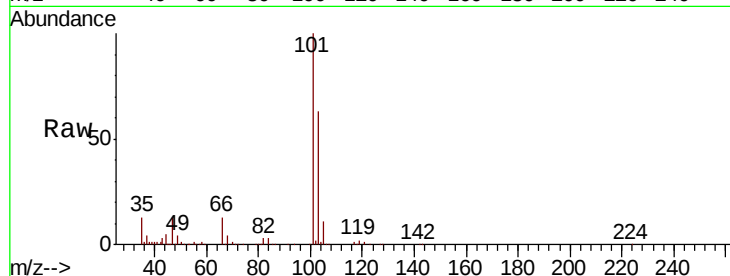




#11
 Trichlorofluoromethane
 Concen: 1.120 ppbv
 RT: 3.93 min Scan# 356
 Delta R.T. -0.00 min
 Lab File: VL036952.D
 Acq: 18 May 2021 3:16

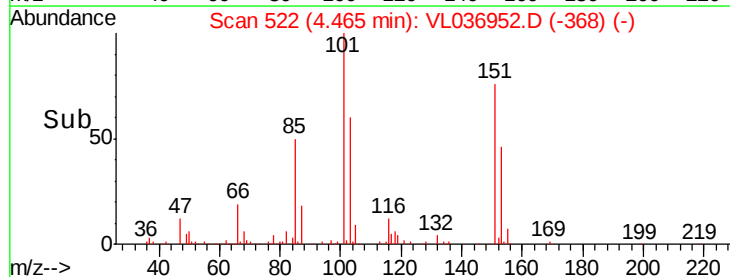
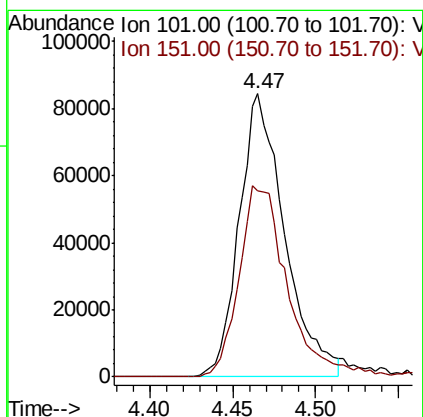
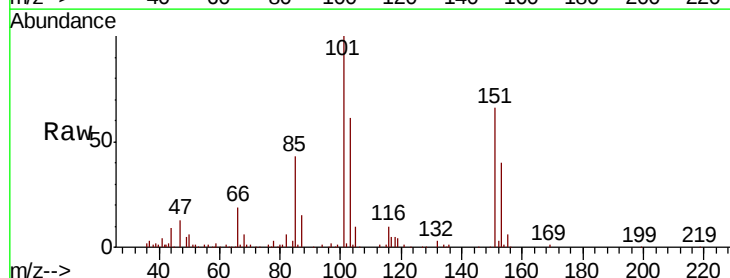
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

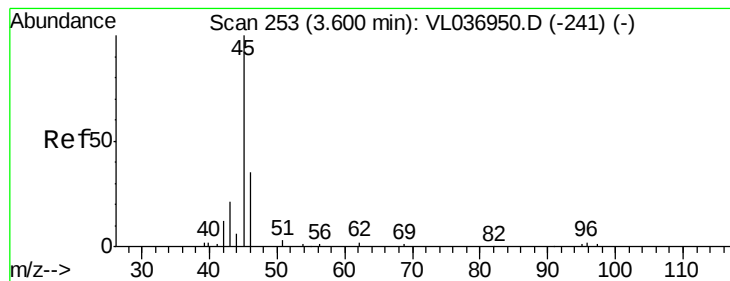
Tot Ion:101 Resp: 230958
 Ion Ratio Lower Upper
 101 100
 103 62.6 52.6 79.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.153 ppbv
 RT: 4.47 min Scan# 522
 Delta R.T. -0.00 min
 Lab File: VL036952.D
 Acq: 18 May 2021 3:16

Tgt Ion:101 Resp: 160740
 Ion Ratio Lower Upper
 101 100
 151 71.9 57.7 86.5





#13

Ethanol

Concen: 0.721 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.01 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

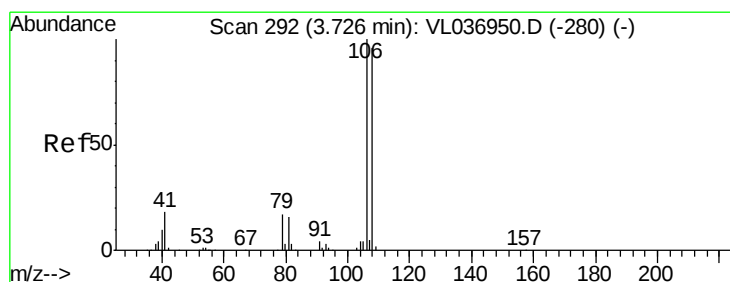
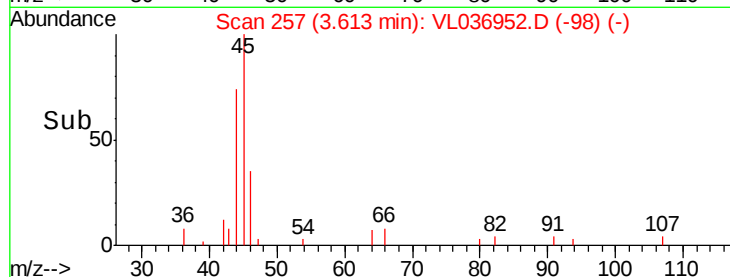
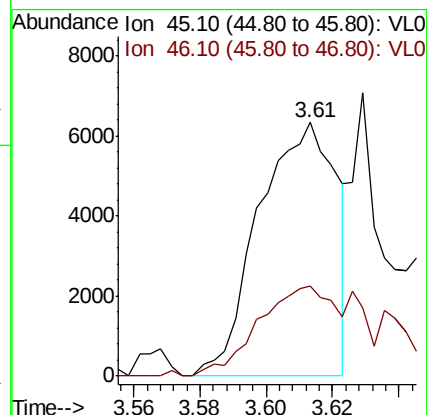
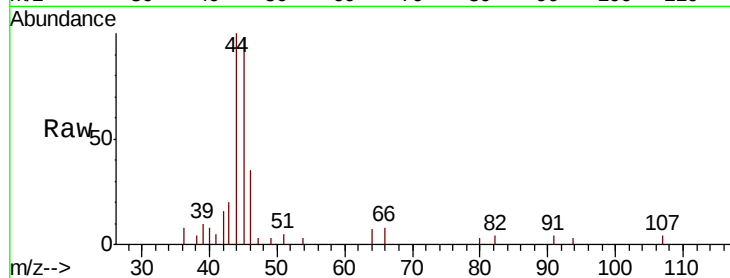
VSTDIC001

Tot Ion: 45 Resp: 10302

Ion Ratio Lower Upper

45 100

46 68.3 16.3 65.3#



#14

Bromoethene

Concen: 1.156 ppbv

RT: 3.72 min Scan# 291

Delta R.T. -0.00 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

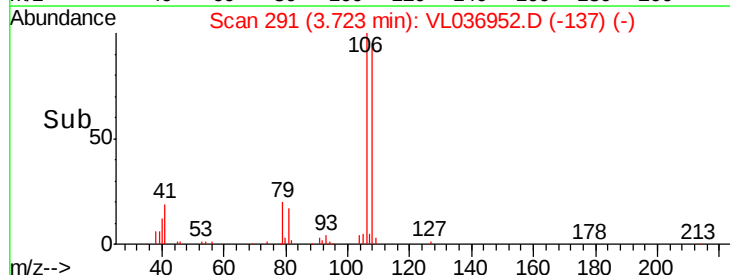
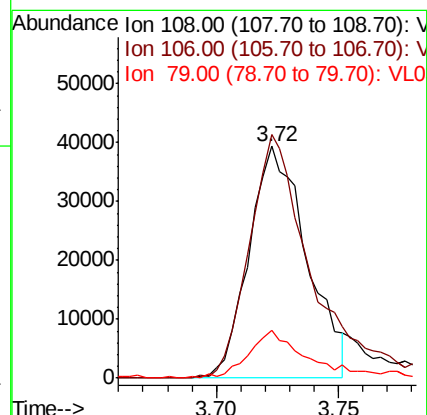
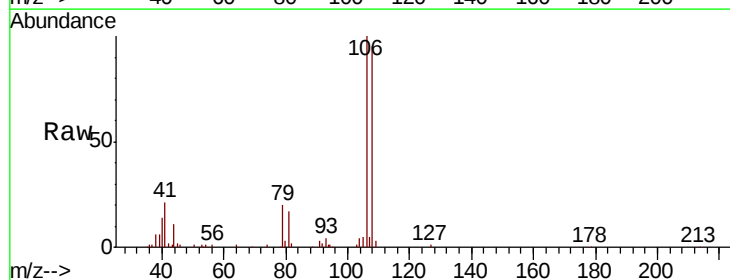
Tgt Ion: 108 Resp: 64633

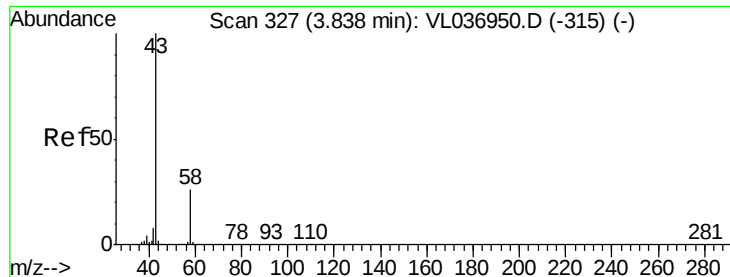
Ion Ratio Lower Upper

108 100

106 120.2 86.5 129.7

79 23.0 15.0 22.4#





#15

Acetone

Concen: 1.108 ppbv

RT: 3.84 min Scan# 329

Delta R.T. 0.01 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

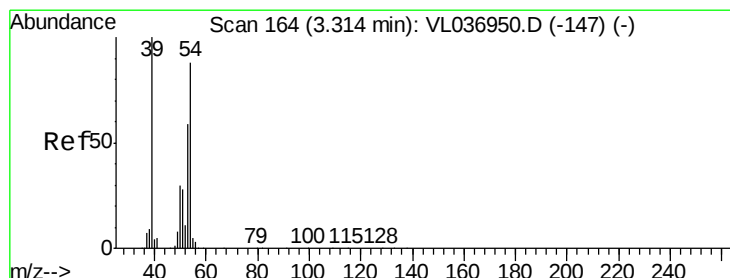
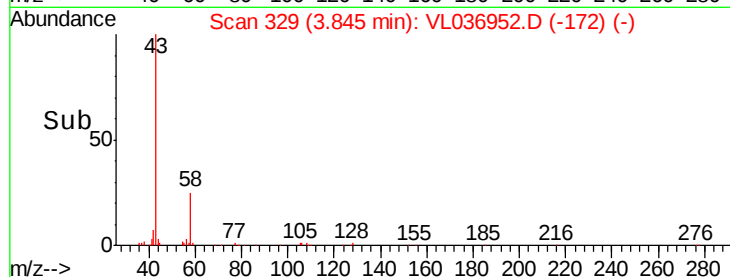
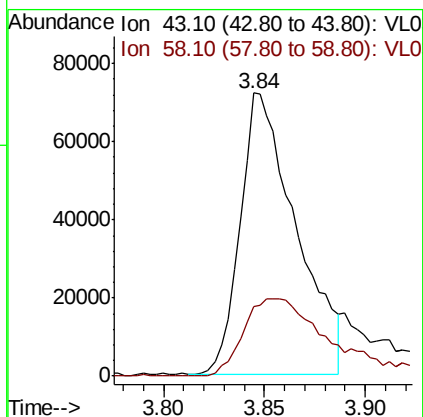
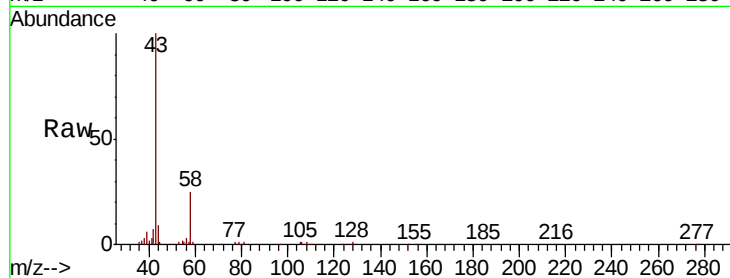
VSTDIC001

Tot Ion: 43 Resp: 139759

Ion Ratio Lower Upper

43 100

58 46.2 24.0 36.0#



#16

1,3-Butadiene

Concen: 1.086 ppbv

RT: 3.31 min Scan# 163

Delta R.T. -0.00 min

Lab File: VL036952.D

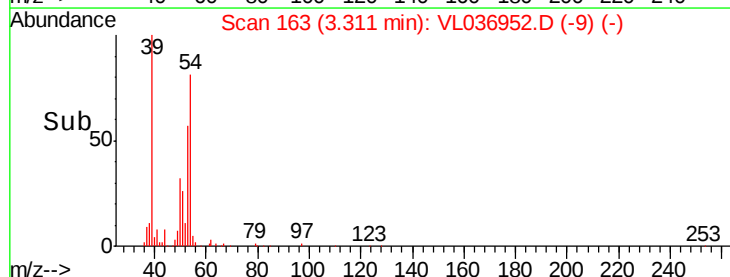
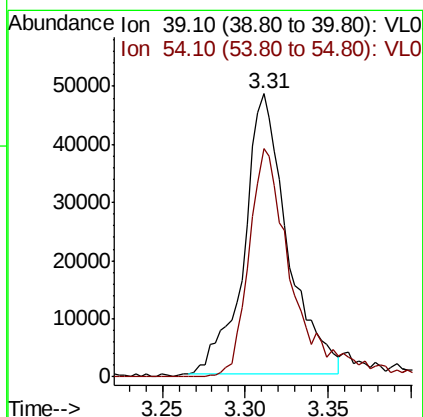
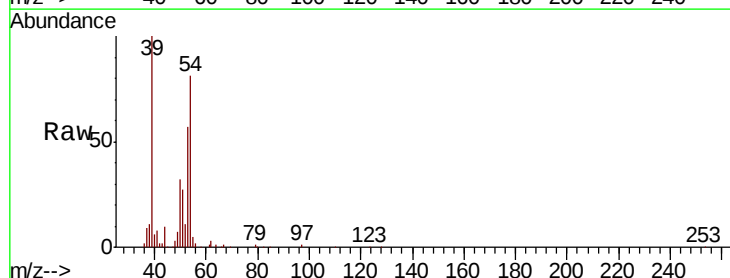
Acq: 18 May 2021 3:16

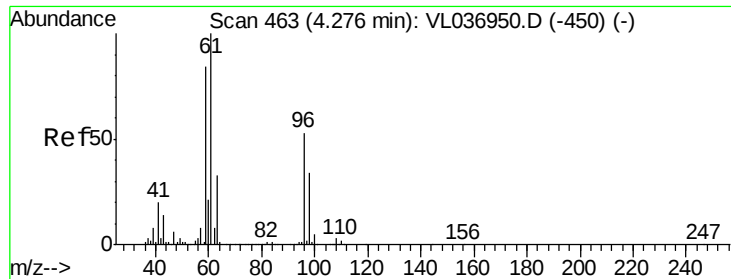
Tgt Ion: 39 Resp: 88679

Ion Ratio Lower Upper

39 100

54 82.5 63.2 94.8



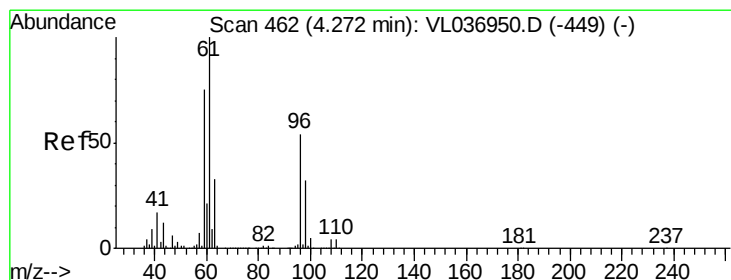
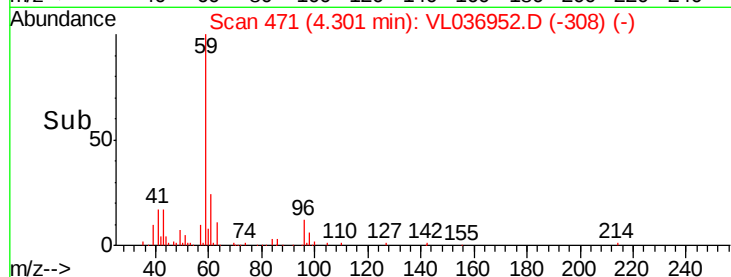
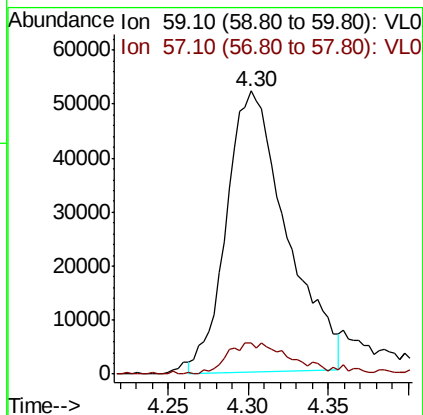
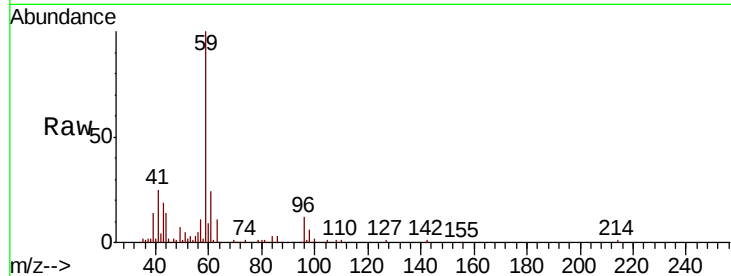


#17

tert-Butyl alcohol
Concen: 1.157 ppbv
RT: 4.30 min Scan# 471
Delta R.T. 0.03 min
Lab File: VL036952.D
Acq: 18 May 2021 3:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

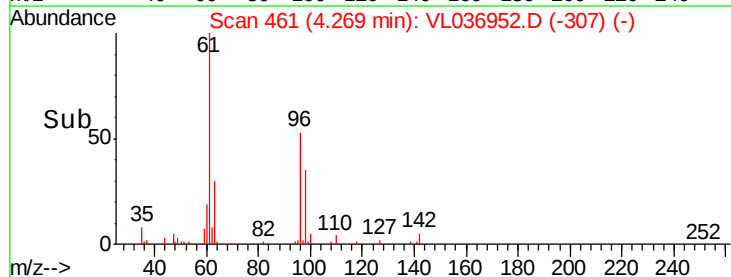
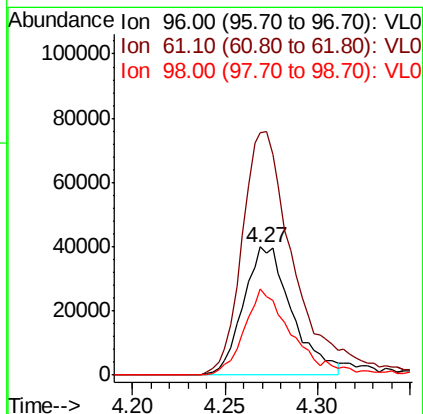
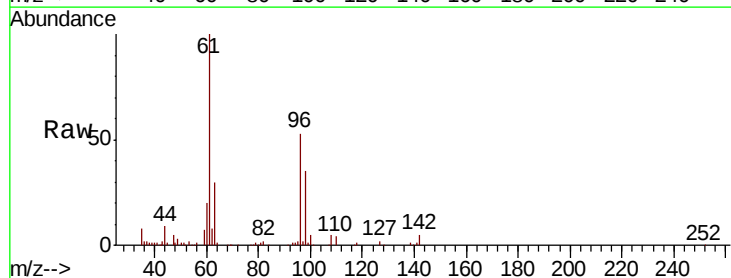
Tot Ion: 59 Resp: 134898
Ion Ratio Lower Upper
59 100
57 12.6 8.3 12.5#

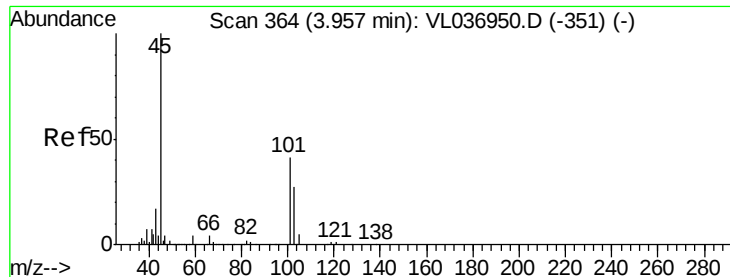


#18

1,1-Dichloroethene
Concen: 1.270 ppbv
RT: 4.27 min Scan# 461
Delta R.T. -0.00 min
Lab File: VL036952.D
Acq: 18 May 2021 3:16

Tgt Ion: 96 Resp: 72711
Ion Ratio Lower Upper
96 100
61 190.0 148.2 222.4
98 66.9 47.8 71.6





#19

Isopropyl Alcohol

Concen: 0.887 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.02 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

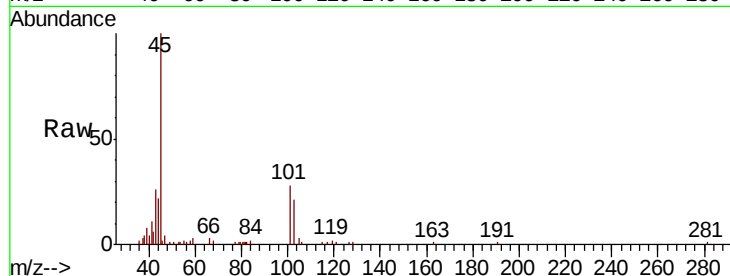
VSTDIC001

Tot Ion: 45 Resp: 63790

Ion Ratio Lower Upper

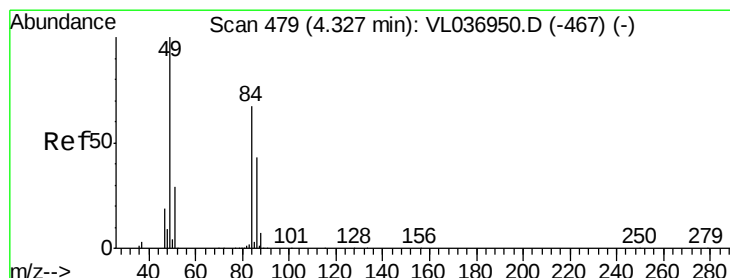
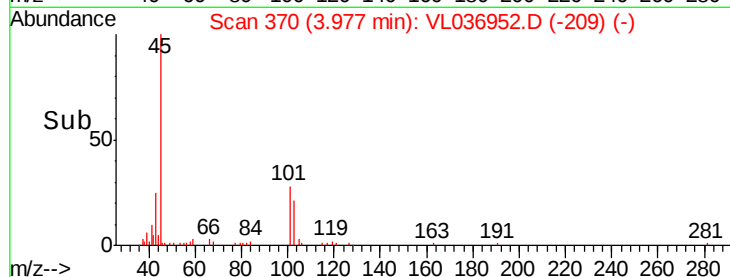
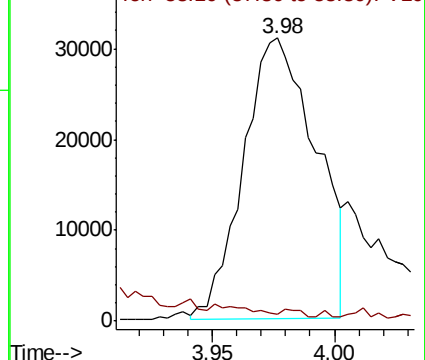
45 100

58 99.2 37.2 55.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.711 ppbv

RT: 4.33 min Scan# 479

Delta R.T. -0.00 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

Tgt Ion: 84 Resp: 73259

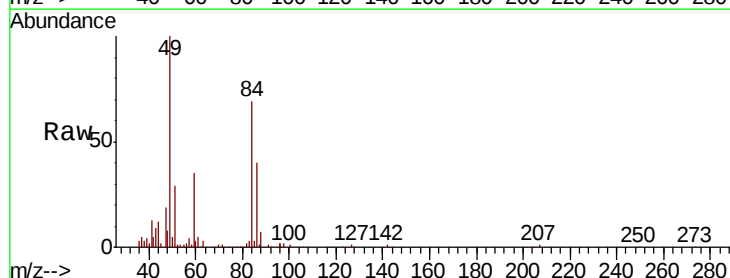
Ion Ratio Lower Upper

84 100

49 142.4 119.8 179.6

51 39.9 35.1 52.7

86 58.2 50.9 76.3

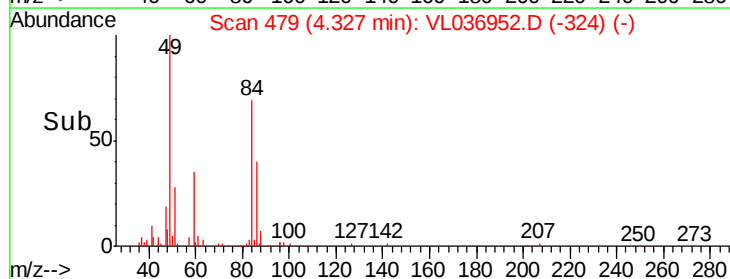
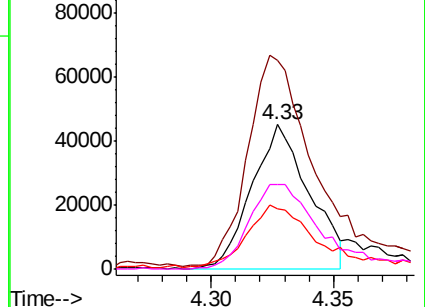


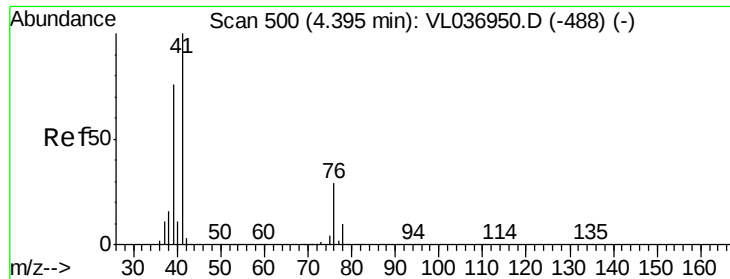
Abundance Ion 84.00 (83.70 to 84.70): VL0

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: 1.185 ppbv

RT: 4.39 min Scan# 499

Delta R.T. -0.00 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

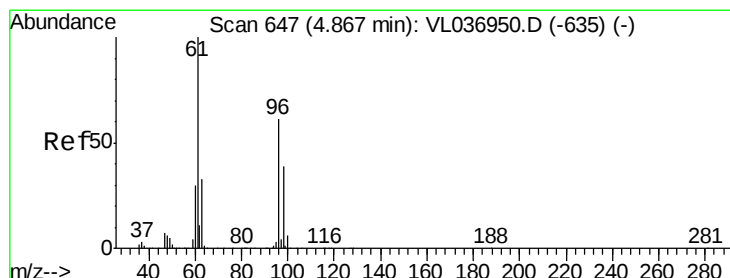
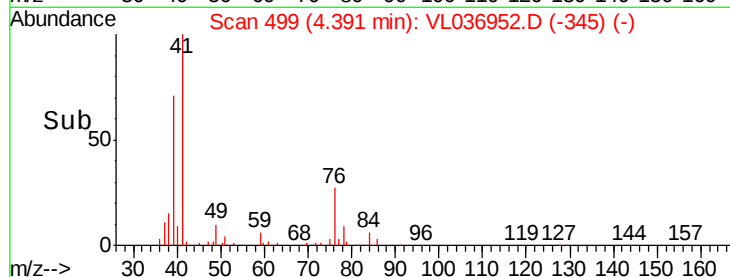
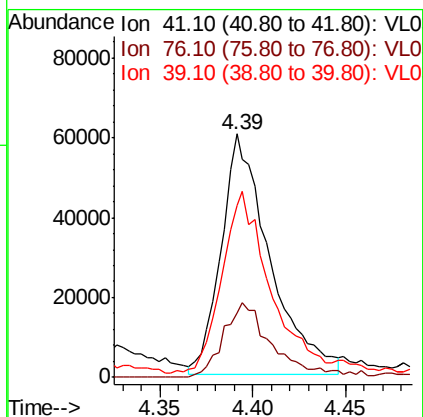
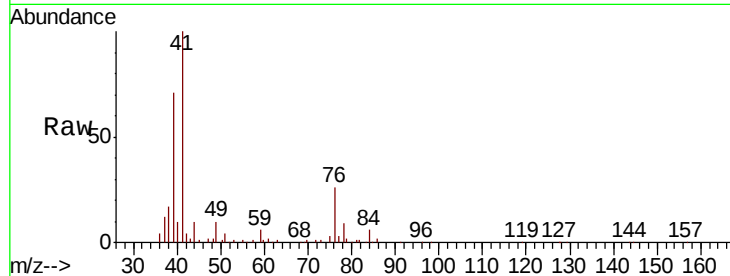
Tot Ion: 41 Resp: 110112

Ion Ratio Lower Upper

41 100

76 31.3 24.9 37.3

39 79.5 63.7 95.5



#22

trans-1,2-Dichloroethene

Concen: 1.000 ppbv

RT: 4.86 min Scan# 646

Delta R.T. -0.00 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

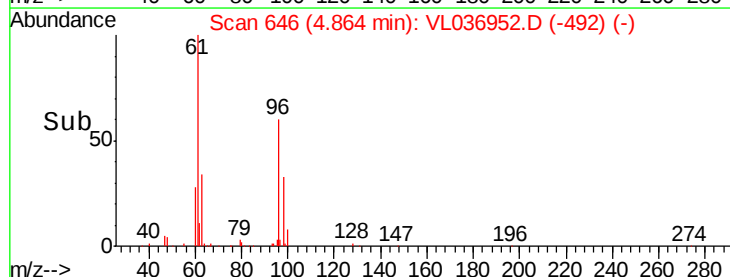
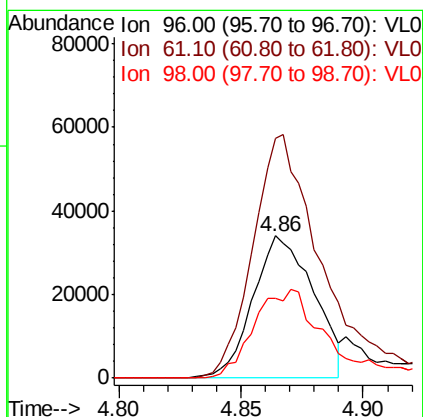
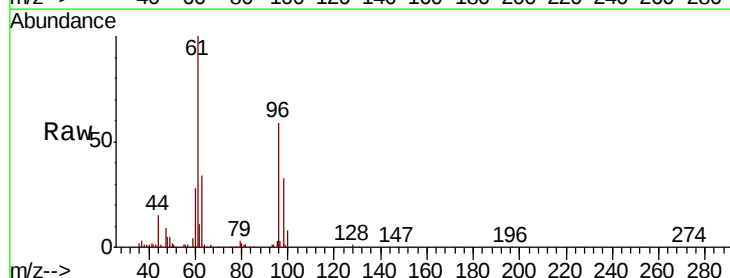
Tgt Ion: 96 Resp: 58753

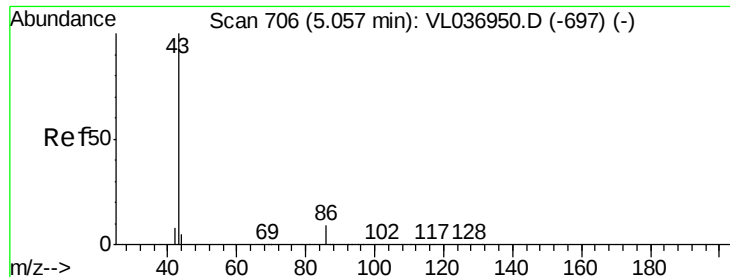
Ion Ratio Lower Upper

96 100

61 168.2 130.6 196.0

98 56.0 50.8 76.2





#23

Vinyl Acetate

Concen: 1.180 ppbv

RT: 5.06 min Scan# 707

Delta R.T. 0.00 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 43 Resp: 211668

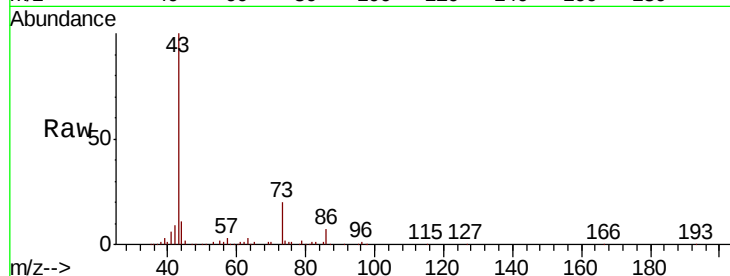
Ion Ratio Lower Upper

43 100

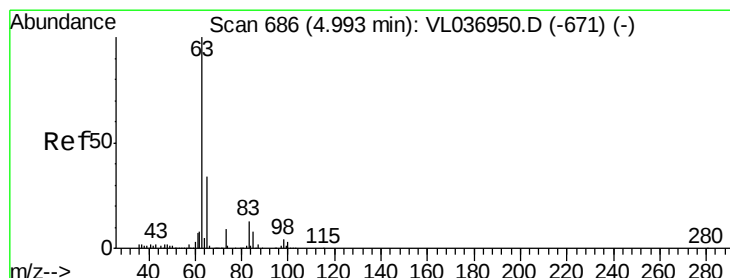
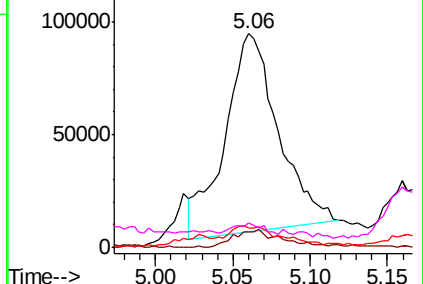
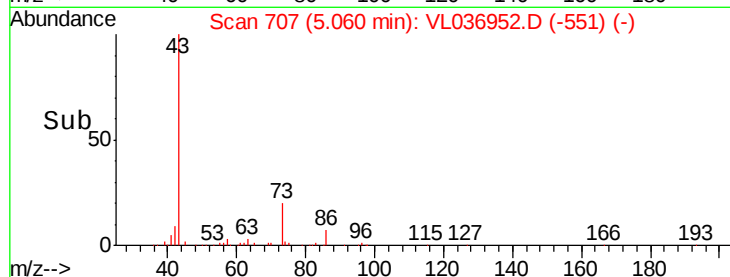
86 8.0 5.8 8.8

42 8.6 7.4 11.2

44 7.4 3.3 4.9#



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: 1.248 ppbv

RT: 4.99 min Scan# 686

Delta R.T. -0.00 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

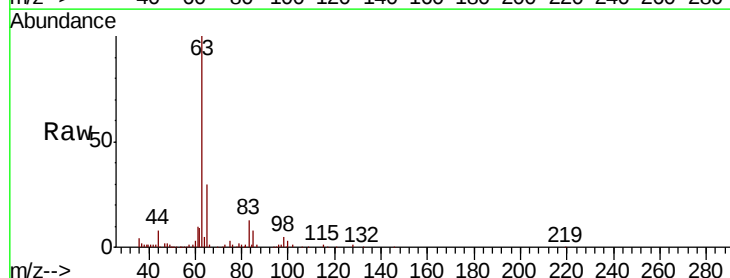
Tgt Ion: 63 Resp: 170198

Ion Ratio Lower Upper

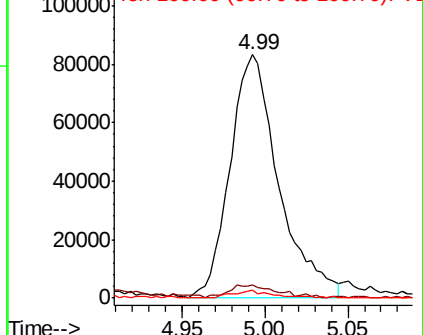
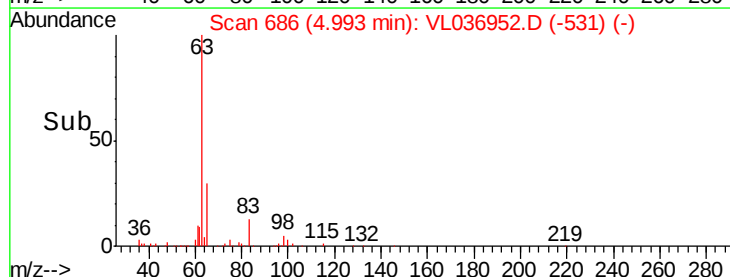
63 100

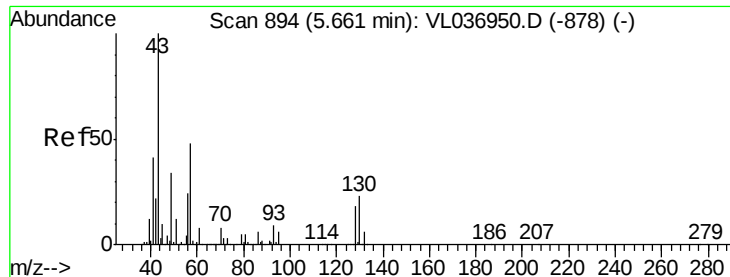
98 4.5 2.3 6.9

100 3.1 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

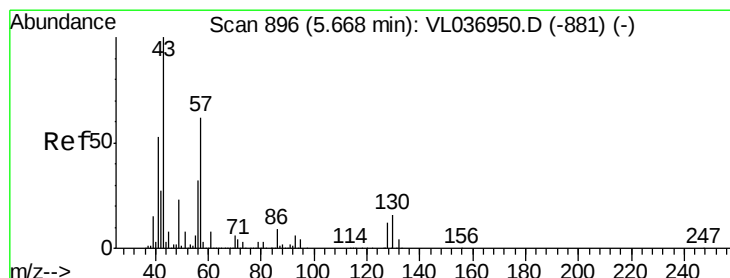
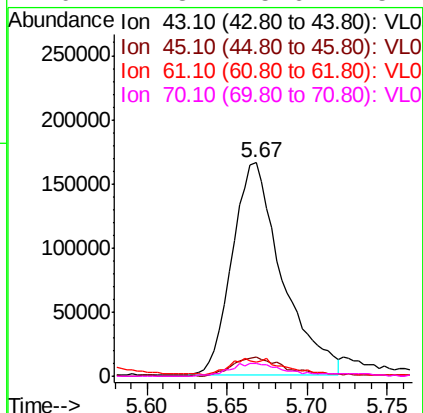
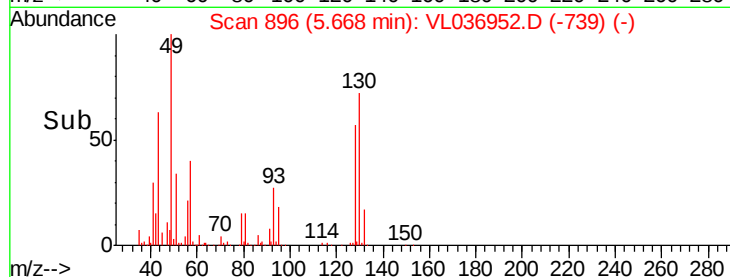
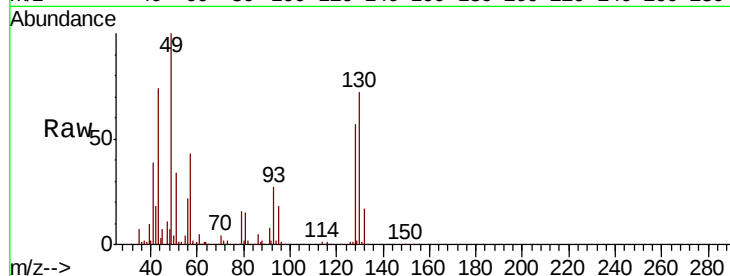




#25
Ethyl Acetate
Concen: 1.133 ppbv
RT: 5.67 min Scan# 896
Delta R.T. 0.01 min
Lab File: VL036952.D
Acq: 18 May 2021 3:16

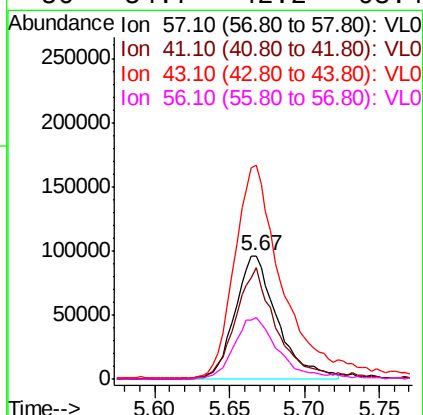
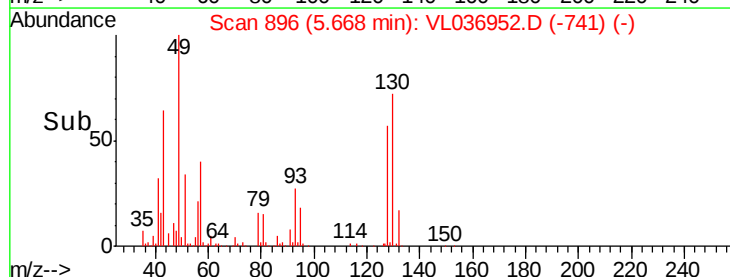
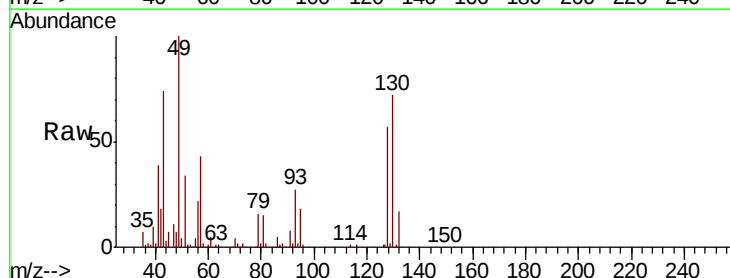
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

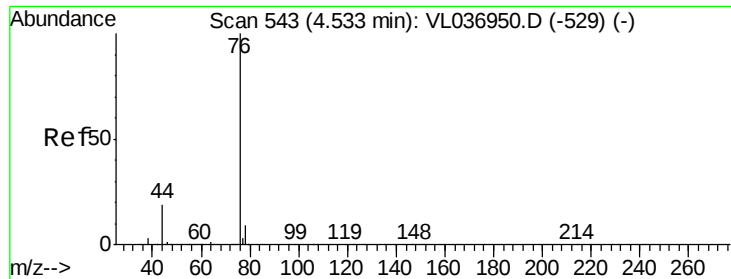
Tot Ion:	43	Resp:	353062
Ion	Ratio	Lower	Upper
43	100		
45	10.2	7.8	11.8
61	10.8	7.8	11.8
70	7.8	5.6	8.4



#26
Hexane
Concen: 1.177 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.00 min
Lab File: VL036952.D
Acq: 18 May 2021 3:16

Tgt Ion:	57	Resp:	188368
Ion	Ratio	Lower	Upper
57	100		
41	90.4	70.5	105.7
43	204.3	165.8	248.8
56	54.7	42.2	63.4

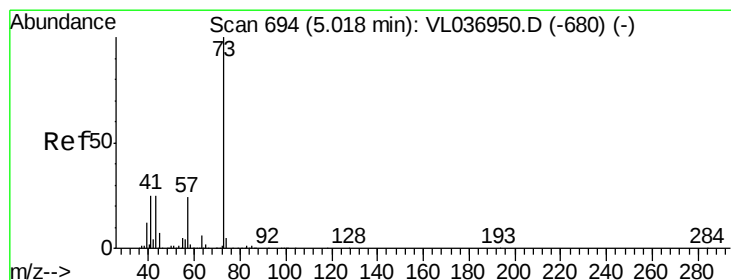
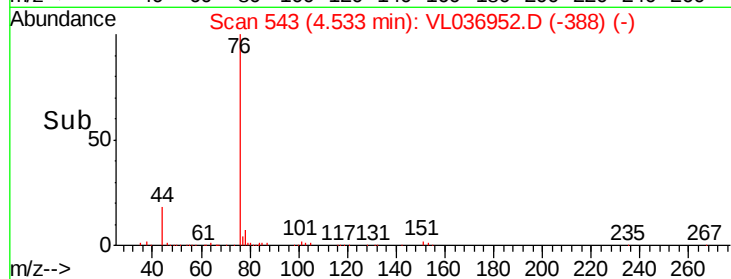
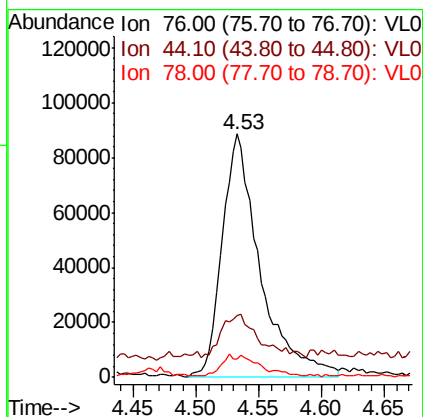
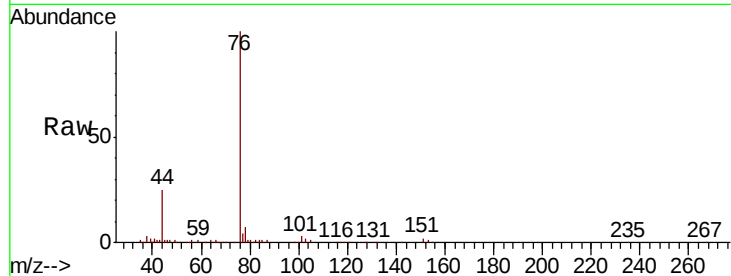




#27
Carbon Disulfide
Concen: 1.300 ppbv
RT: 4.53 min Scan# 543
Delta R.T. -0.00 min
Lab File: VL036952.D
Acq: 18 May 2021 3:16

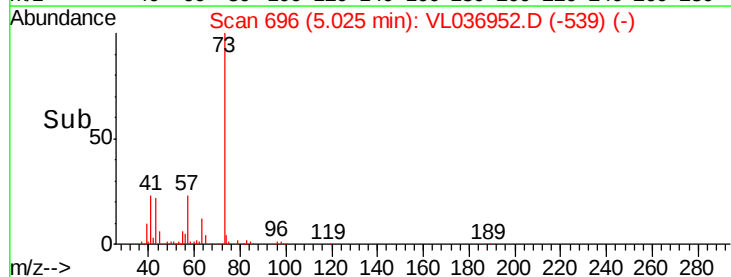
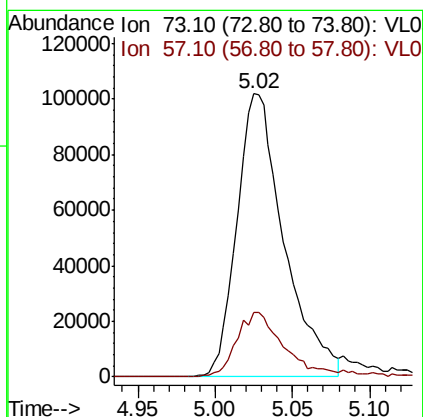
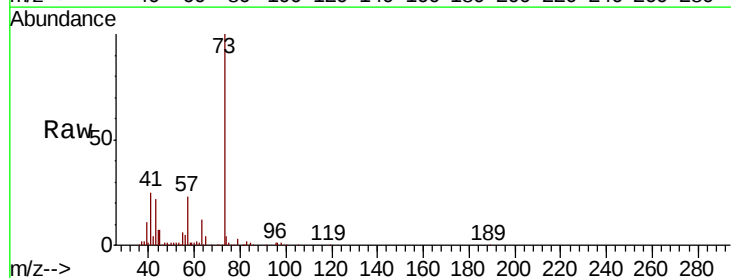
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

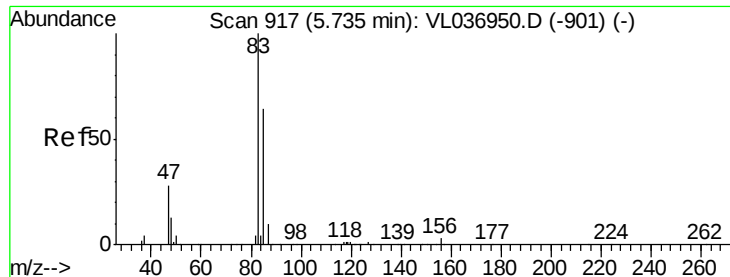
Tot Ion	Ratio	Lower	Upper
76	100		
44	21.2	15.5	23.3
78	10.1	7.8	11.6



#28
Methyl tert-Butyl Ether
Concen: 1.394 ppbv
RT: 5.02 min Scan# 696
Delta R.T. 0.01 min
Lab File: VL036952.D
Acq: 18 May 2021 3:16

Tgt Ion	Ratio	Lower	Upper
73	100		
57	24.2	18.3	27.5





#29

Chloroform

Concen: 1.026 ppbv

RT: 5.73 min Scan# 915

Delta R.T. -0.01 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

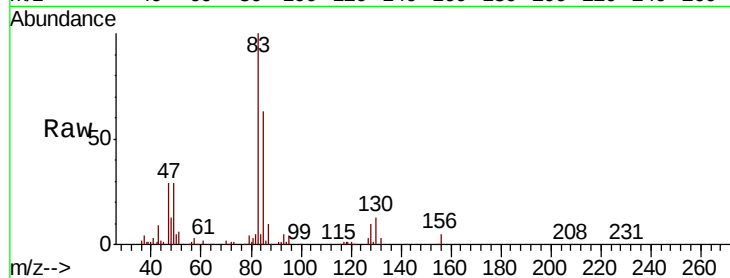
VSTDIC001

Tot Ion: 83 Resp: 246362

Ion Ratio Lower Upper

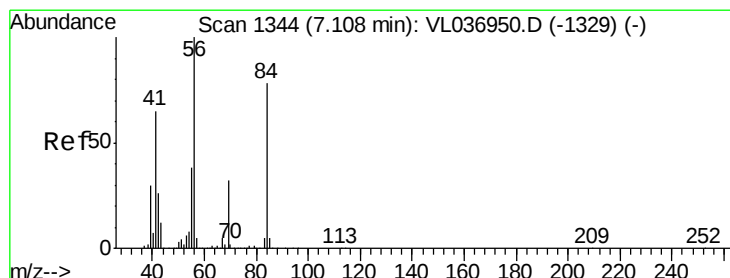
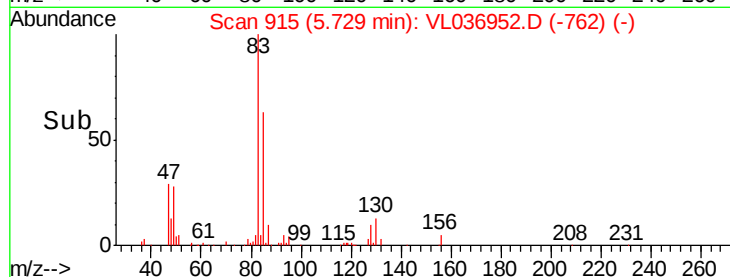
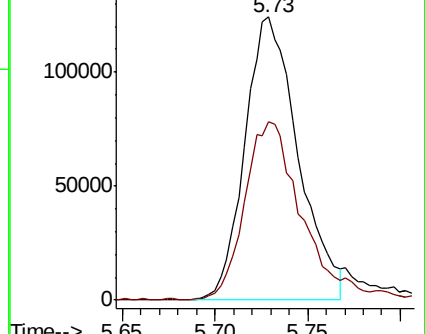
83 100

85 63.1 51.1 76.7



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 1.242 ppbv

RT: 7.11 min Scan# 1344

Delta R.T. -0.00 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

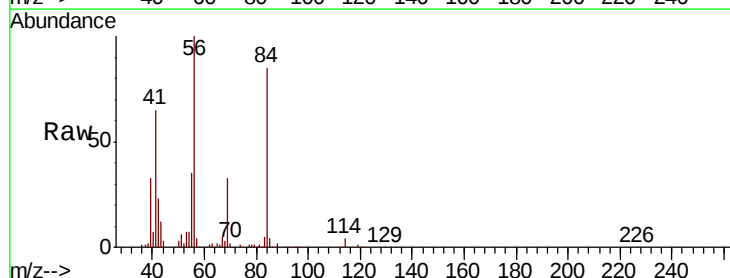
Tgt Ion: 84 Resp: 152132

Ion Ratio Lower Upper

84 100

56 193.9 107.9 161.9#

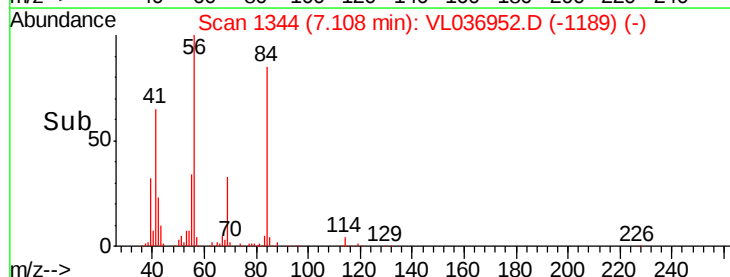
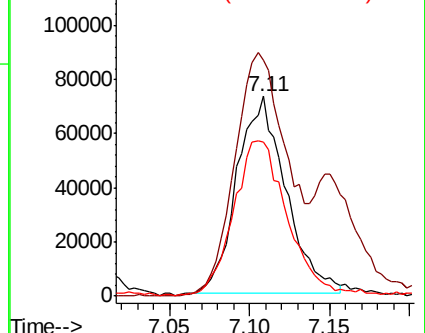
41 85.4 65.5 98.3

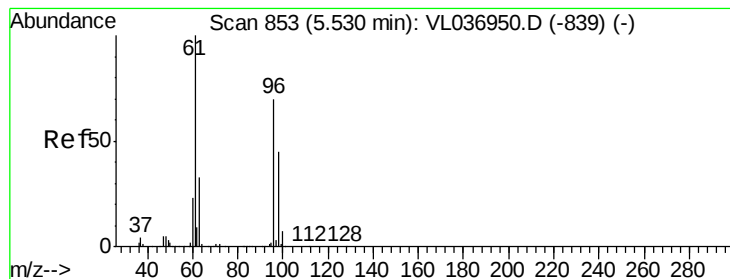


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0



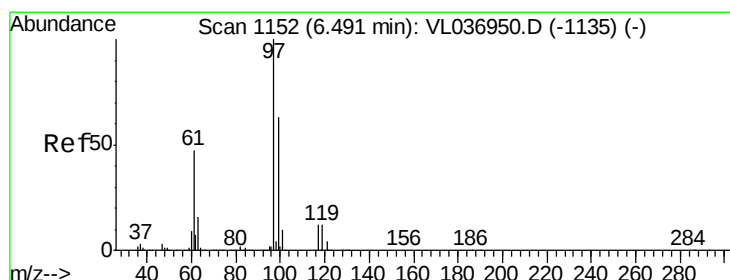
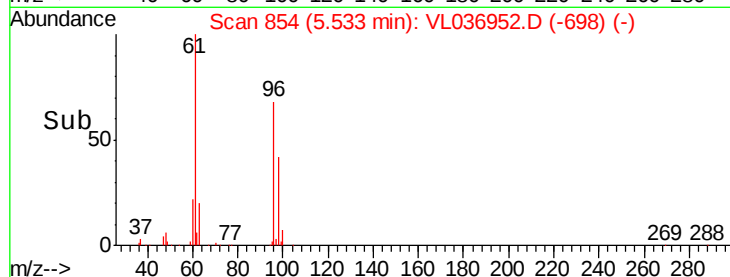
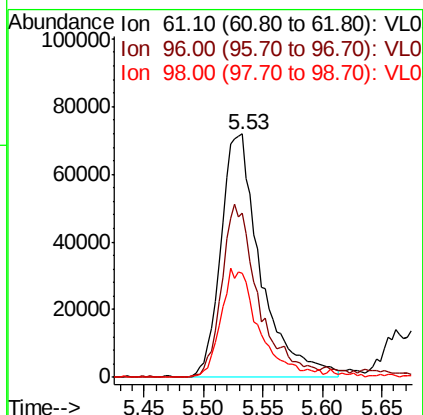
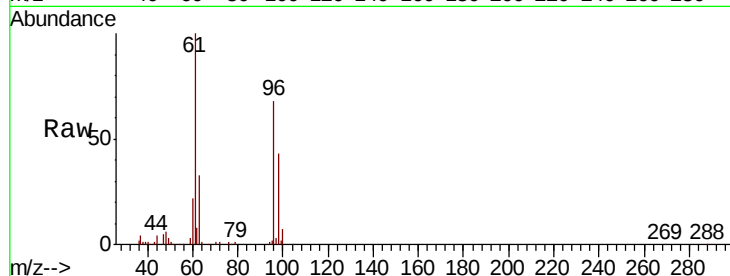


#31

cis-1,2-Dichloroethene
 Concen: 1.316 ppbv
 RT: 5.53 min Scan# 854
 Delta R.T. 0.00 min
 Lab File: VL036952.D
 Acq: 18 May 2021 3:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

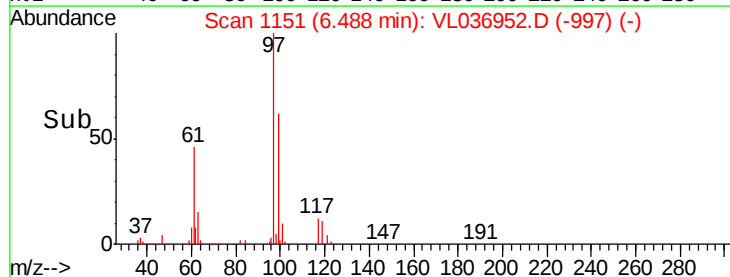
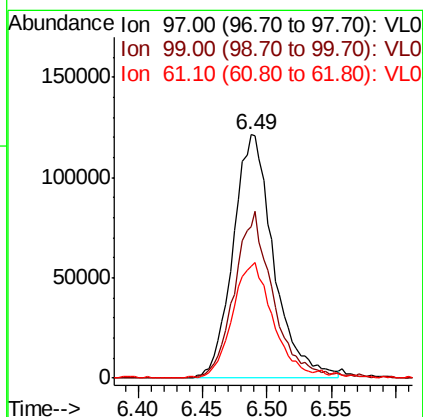
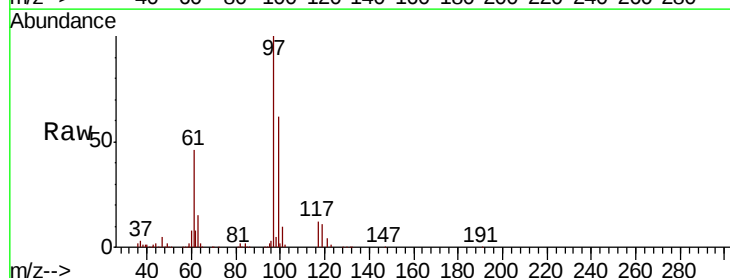
Tot Ion:	61	Resp:	165099
Ion	Ratio	Lower	Upper
61	100		
96	67.8	55.9	83.9
98	42.7	35.6	53.4

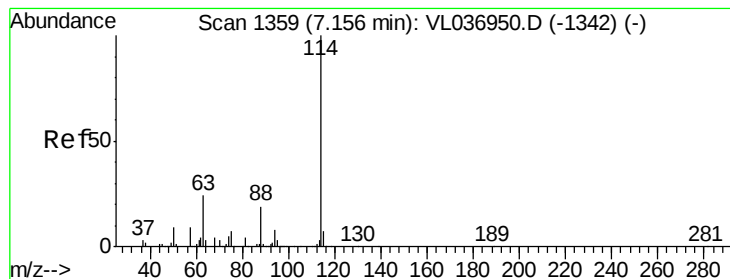


#32

1,1,1-Trichloroethane
 Concen: 1.041 ppbv
 RT: 6.49 min Scan# 1151
 Delta R.T. -0.00 min
 Lab File: VL036952.D
 Acq: 18 May 2021 3:16

Tgt Ion:	97	Resp:	266475
Ion	Ratio	Lower	Upper
97	100		
99	65.8	51.9	77.9
61	49.1	37.6	56.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.15 min Scan# 1358

Delta R.T. -0.00 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

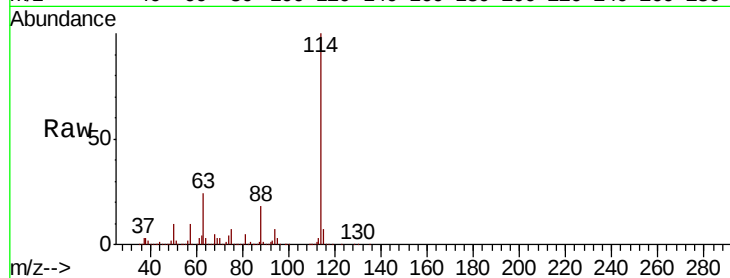
Tot Ion:114 Resp: 3960223

Ion Ratio Lower Upper

114 100

63 24.1 19.6 29.4

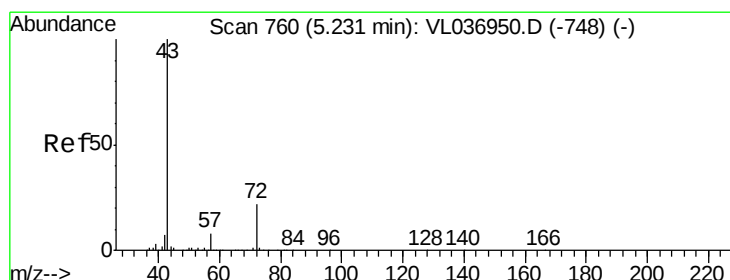
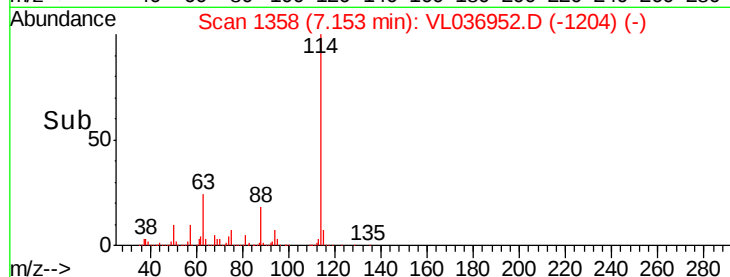
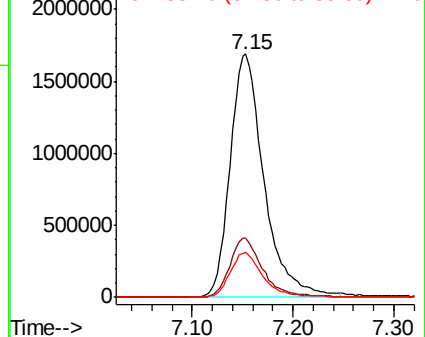
88 18.1 14.6 21.8



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.980 ppbv

RT: 5.24 min Scan# 763

Delta R.T. 0.01 min

Lab File: VL036952.D

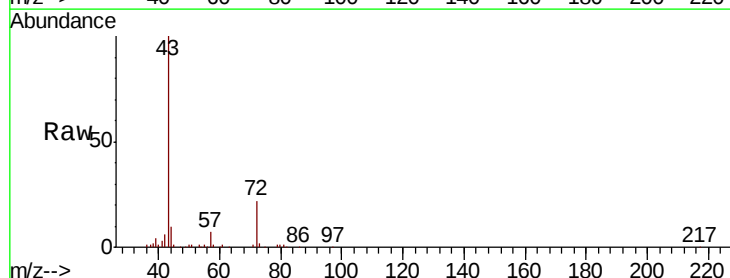
Acq: 18 May 2021 3:16

Tgt Ion: 43 Resp: 148349

Ion Ratio Lower Upper

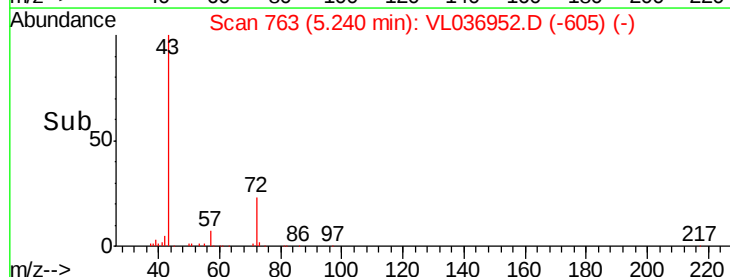
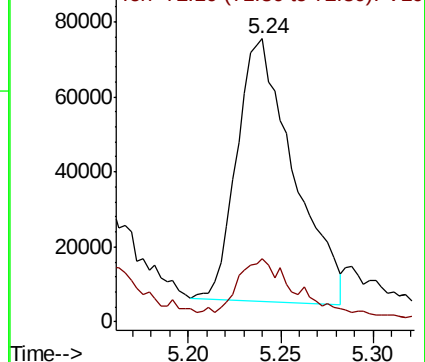
43 100

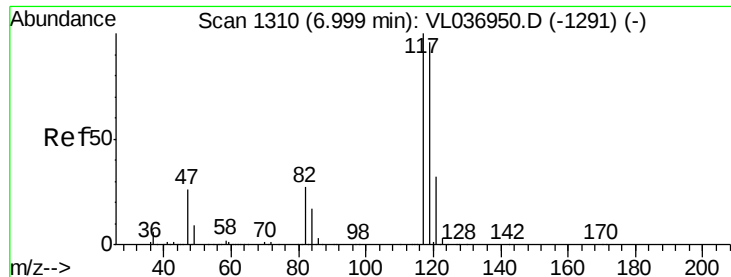
72 28.9 19.0 28.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

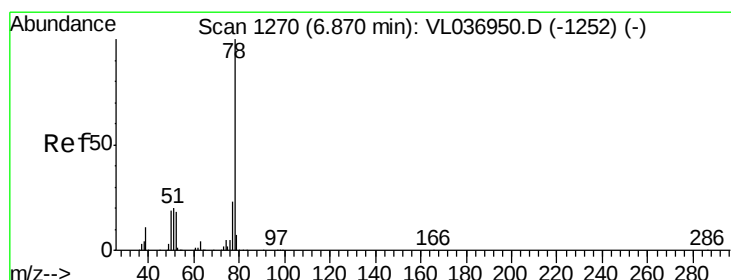
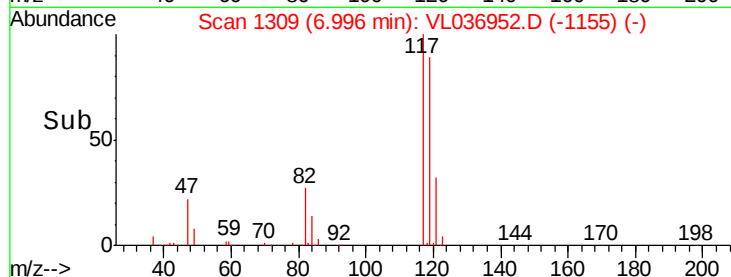
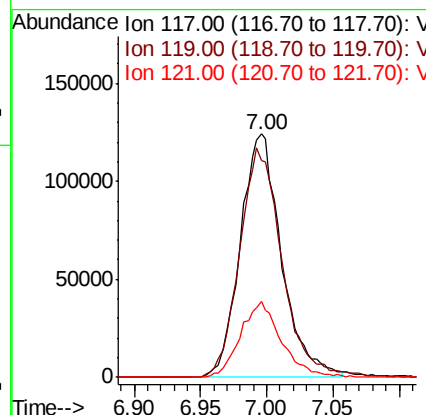
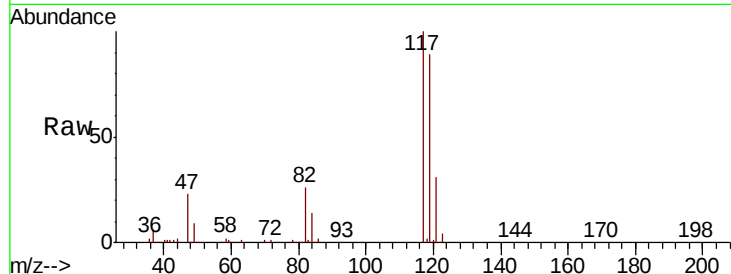




#35
Carbon Tetrachloride
Concen: 0.868 ppbv
RT: 7.00 min Scan# 1309
Delta R.T. -0.00 min
Lab File: VL036952.D
Acq: 18 May 2021 3:16

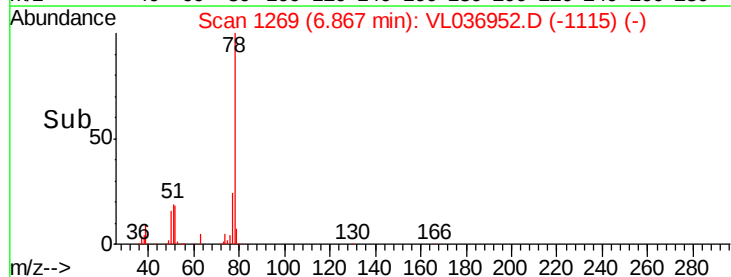
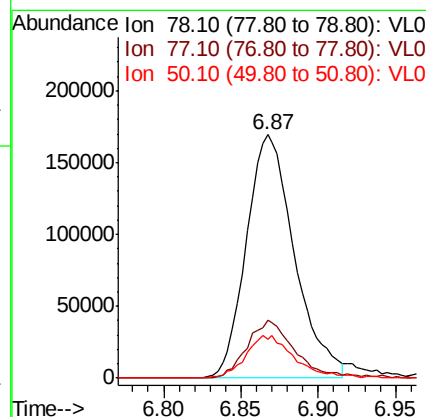
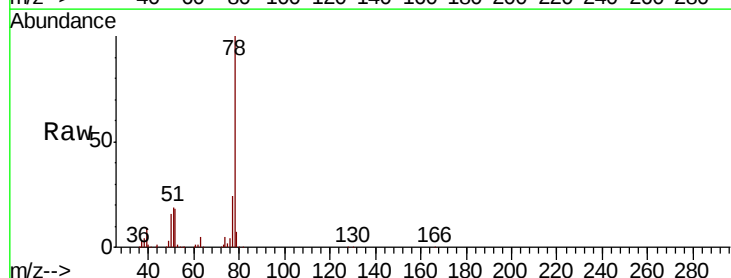
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

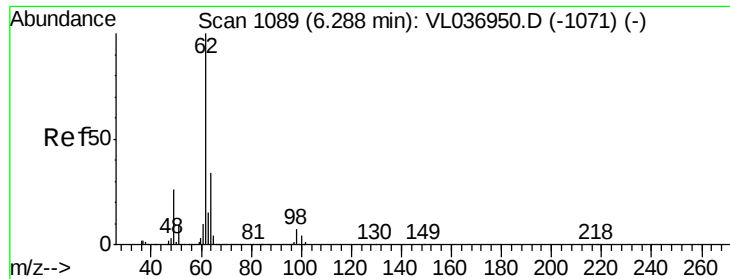
Tot Ion:117 Resp: 268600
Ion Ratio Lower Upper
117 100
119 88.8 76.6 114.8
121 31.1 25.8 38.6



#36
Benzene
Concen: 1.152 ppbv
RT: 6.87 min Scan# 1269
Delta R.T. -0.00 min
Lab File: VL036952.D
Acq: 18 May 2021 3:16

Tgt Ion: 78 Resp: 366622
Ion Ratio Lower Upper
78 100
77 23.9 18.6 28.0
50 15.8 15.0 22.4





#37

1,2-Dichloroethane

Concen: 0.922 ppbv

RT: 6.28 min Scan# 1087

Delta R.T. -0.01 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

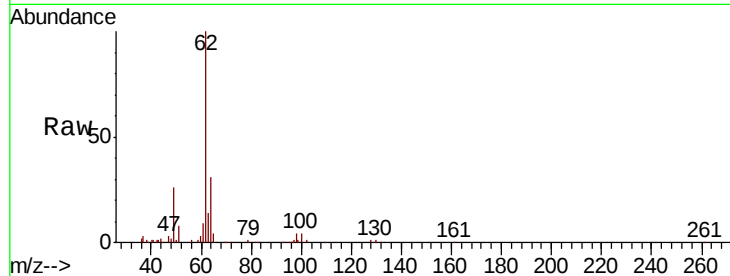
VSTDIC001

Tot Ion: 62 Resp: 174008

Ion Ratio Lower Upper

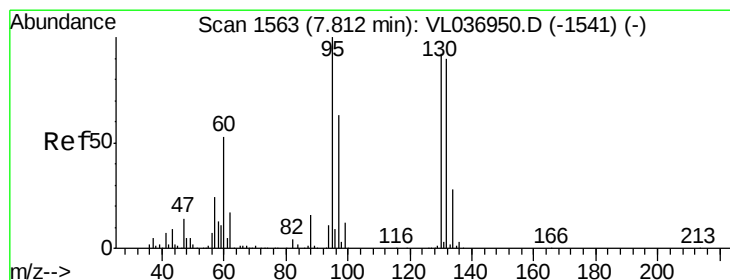
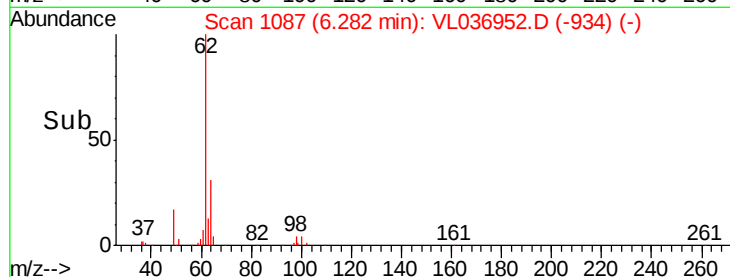
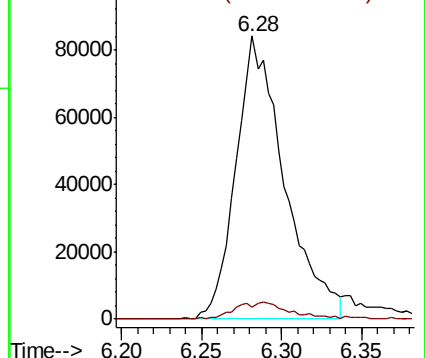
62 100

98 7.4 5.5 8.3



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 1.095 ppbv

RT: 7.81 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

Tgt Ion:130 Resp: 142927

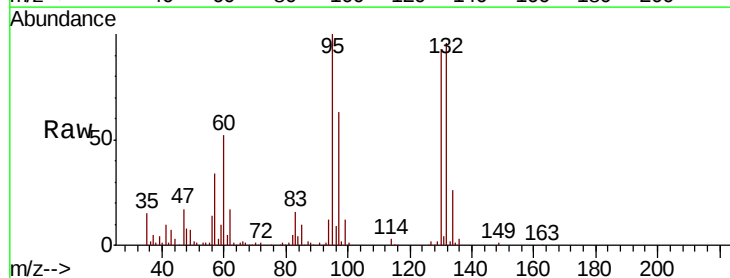
Ion Ratio Lower Upper

130 100

95 108.9 86.9 130.3

132 104.1 78.4 117.6

97 68.9 55.0 82.6

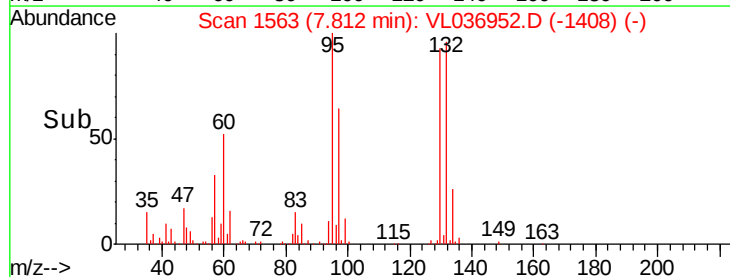
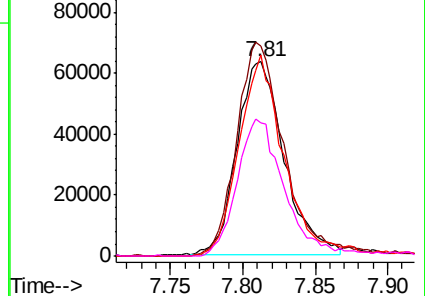


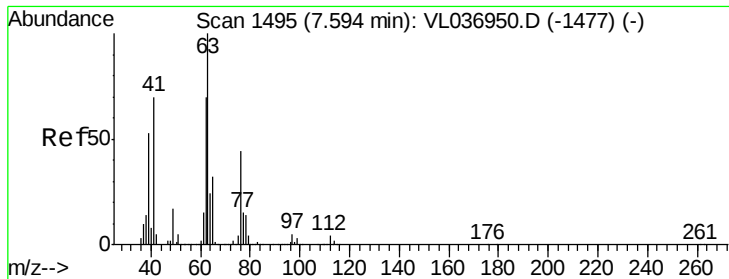
Abundance Ion 130.00 (129.70 to 130.70): V

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

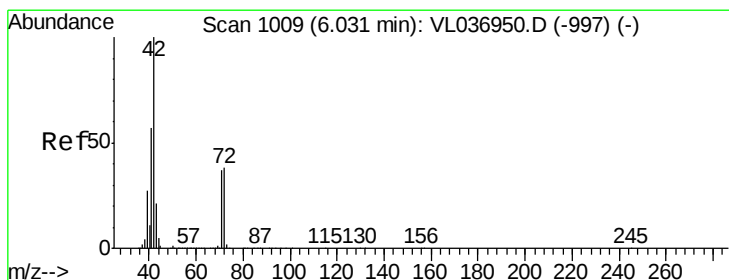
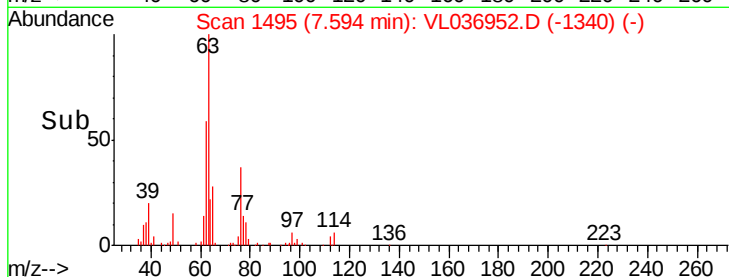
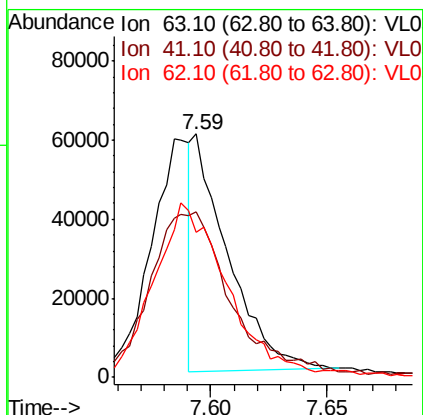
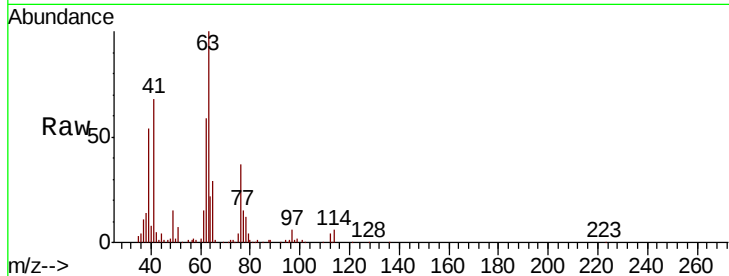




#39
 1,2-Dichloropropane
 Concen: 0.482 ppbv
 RT: 7.59 min Scan# 1495
 Delta R.T. -0.00 min
 Lab File: VL036952.D
 Acq: 18 May 2021 3:16

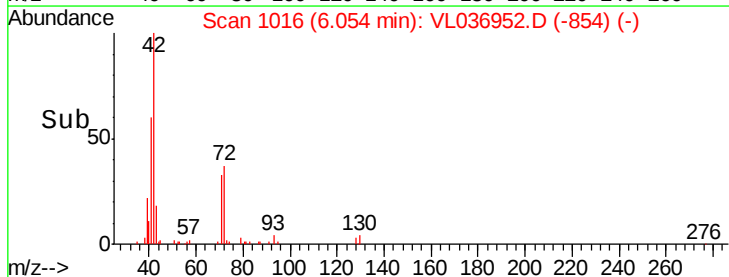
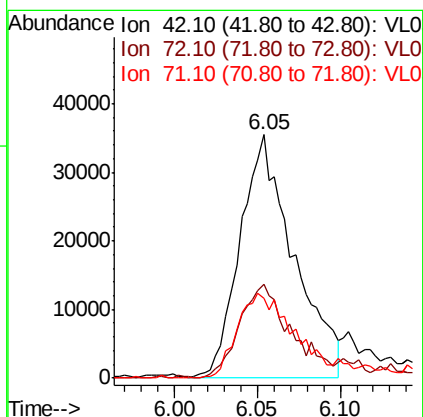
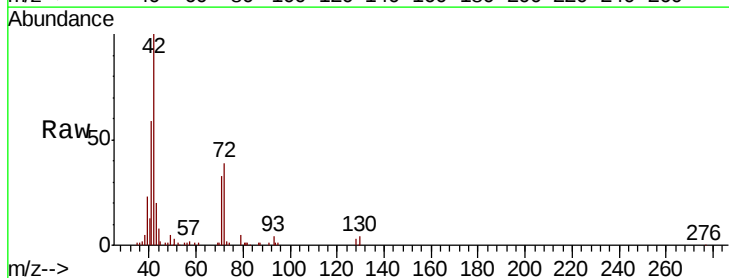
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

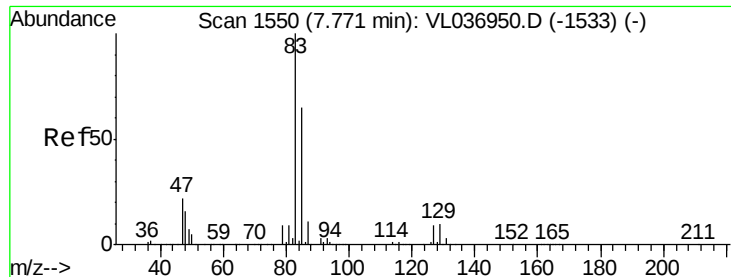
Tot Ion: 63 Resp: 62756
 Ion Ratio Lower Upper
 63 100
 41 68.2 55.7 83.5
 62 58.7 56.2 84.4



#41
 Tetrahydrofuran
 Concen: 1.292 ppbv
 RT: 6.05 min Scan# 1016
 Delta R.T. 0.02 min
 Lab File: VL036952.D
 Acq: 18 May 2021 3:16

Tgt Ion: 42 Resp: 79930
 Ion Ratio Lower Upper
 42 100
 72 44.5 31.4 47.2
 71 42.1 30.4 45.6





#42

Bromodichloromethane

Concen: 0.959 ppbv

RT: 7.77 min Scan# 1549

Delta R.T. -0.00 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

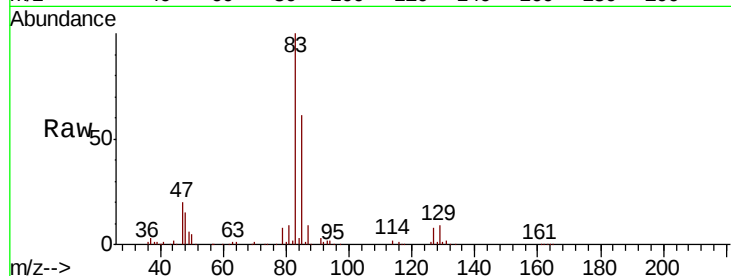
Tot Ion: 83 Resp: 266381

Ion Ratio Lower Upper

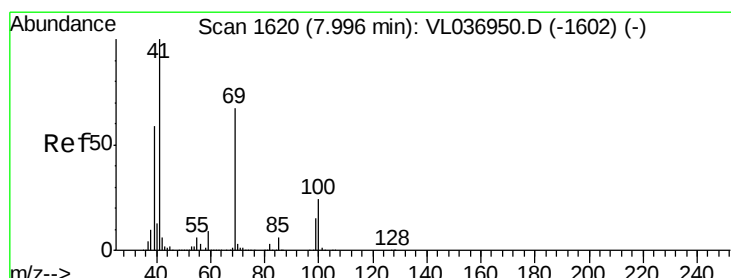
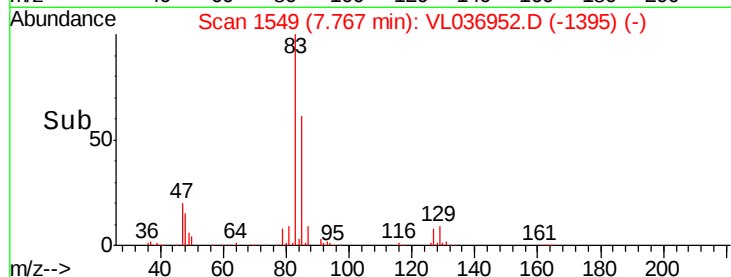
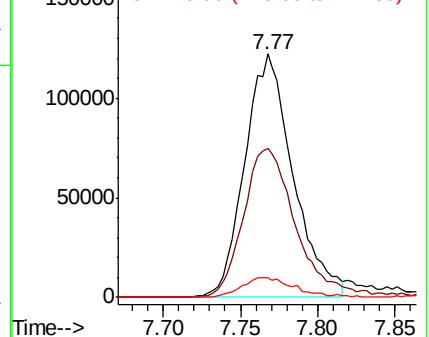
83 100

85 61.1 51.7 77.5

127 8.2 6.9 10.3



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): VL0



#43

Methyl Methacrylate

Concen: 1.304 ppbv

RT: 8.00 min Scan# 1622

Delta R.T. 0.01 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

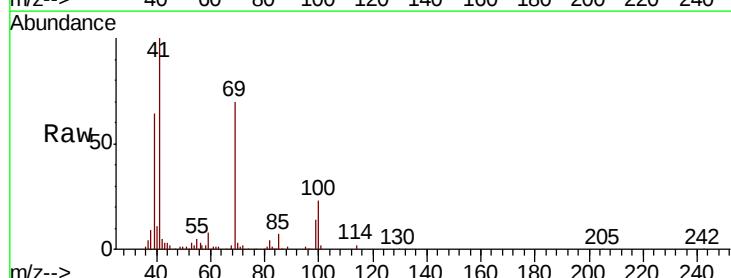
Tgt Ion: 69 Resp: 120753

Ion Ratio Lower Upper

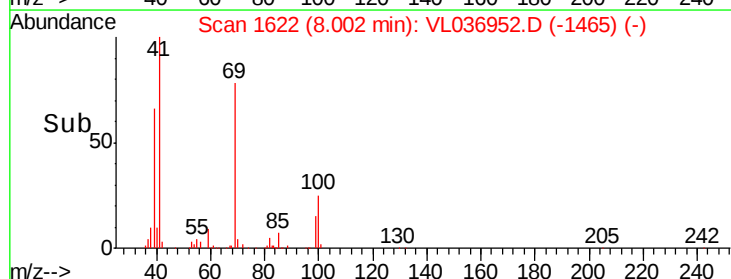
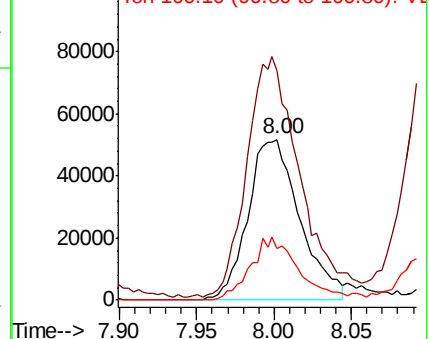
69 100

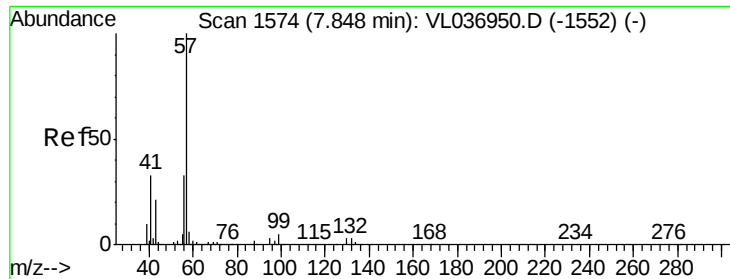
41 155.4 118.6 178.0

100 37.1 28.2 42.4



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

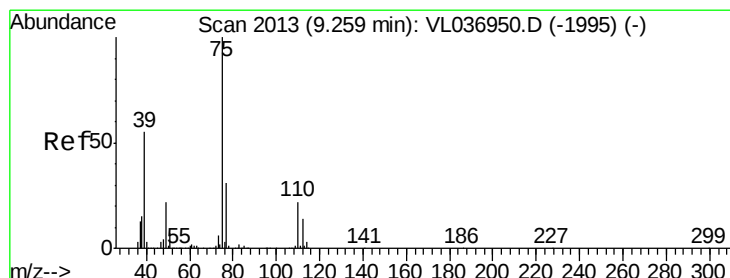
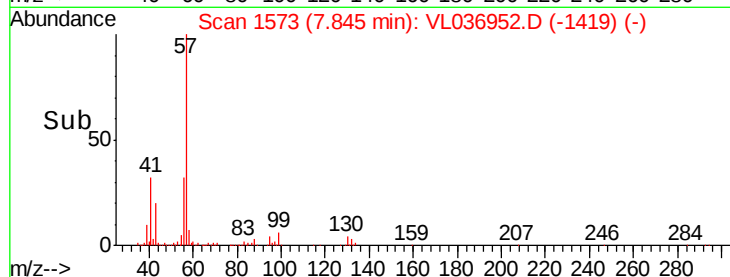
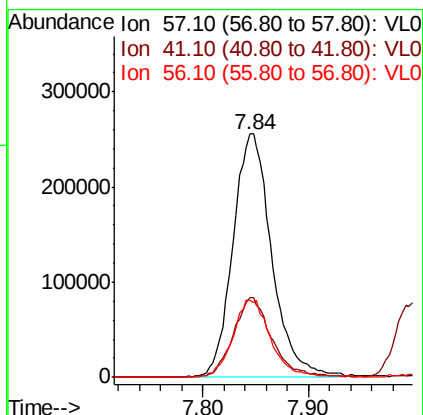
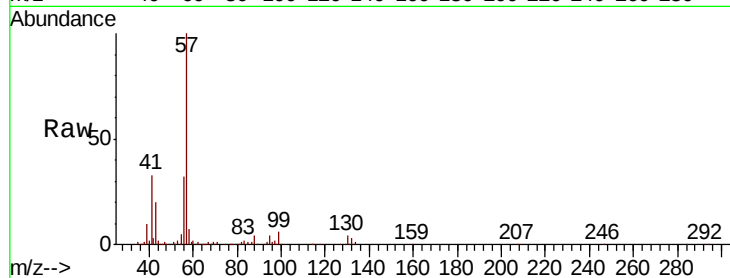




#44
 2,2,4-Trimethylpentane
 Concen: 1.150 ppbv
 RT: 7.84 min Scan# 1573
 Delta R.T. -0.00 min
 Lab File: VL036952.D
 Acq: 18 May 2021 3:16

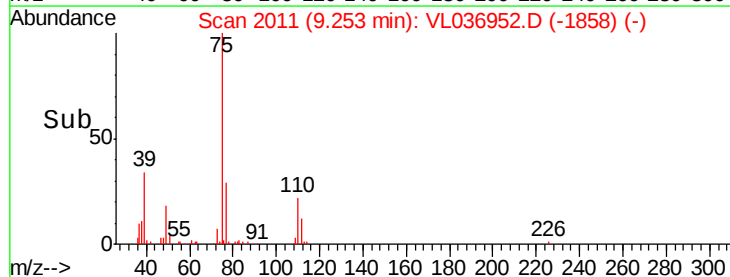
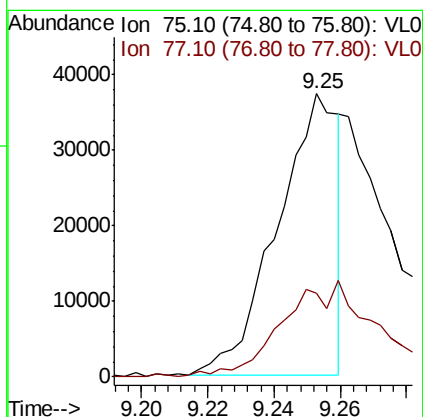
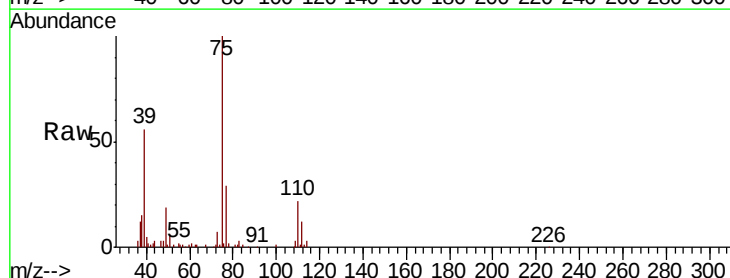
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

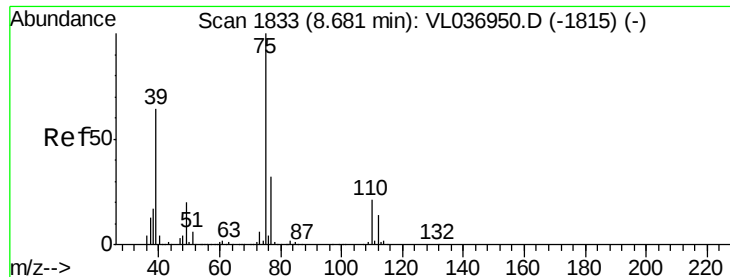
Tot Ion	57	Resp	650579
Ion	Ratio	Lower	Upper
57	100		
41	32.2	27.0	40.4
56	31.6	25.4	38.2



#45
 t-1,3-Dichloropropene
 Concen: 0.570 ppbv
 RT: 9.25 min Scan# 2011
 Delta R.T. -0.01 min
 Lab File: VL036952.D
 Acq: 18 May 2021 3:16

Tgt Ion	75	Resp	47613
Ion	Ratio	Lower	Upper
75	100		
77	29.4	24.4	36.6



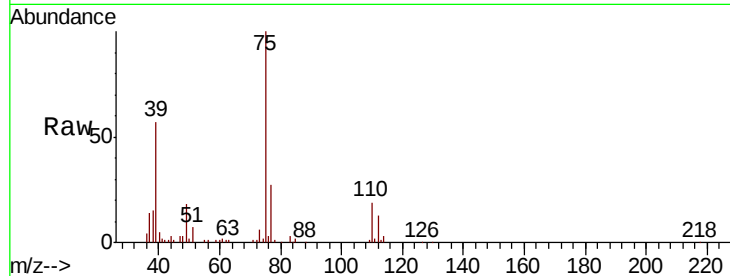


#46

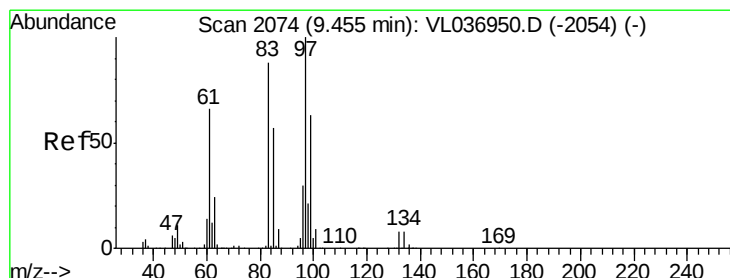
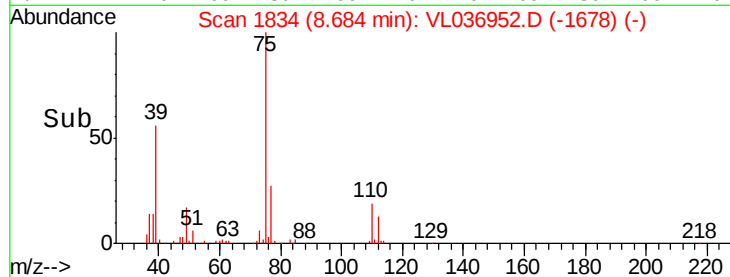
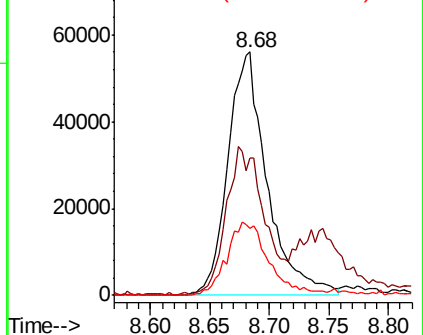
cis-1,3-Dichloropropene
 Concen: 1.094 ppbv
 RT: 8.68 min Scan# 1834
 Delta R.T. 0.00 min
 Lab File: VL036952.D
 Acq: 18 May 2021 3:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
75	100		
39	55.9	51.5	77.3
77	27.4	25.9	38.9



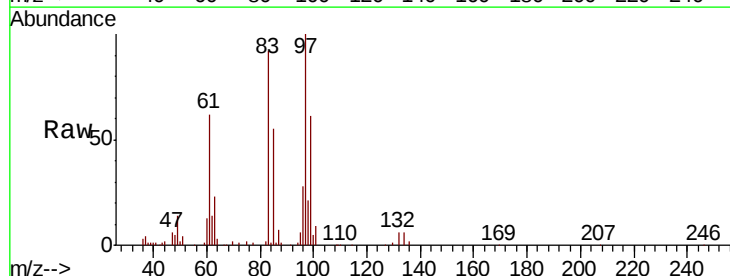
Abundance Ion 75.00 (74.70 to 75.70): VL0
 Ion 39.00 (38.70 to 39.70): VL0
 Ion 77.00 (76.70 to 77.70): VL0



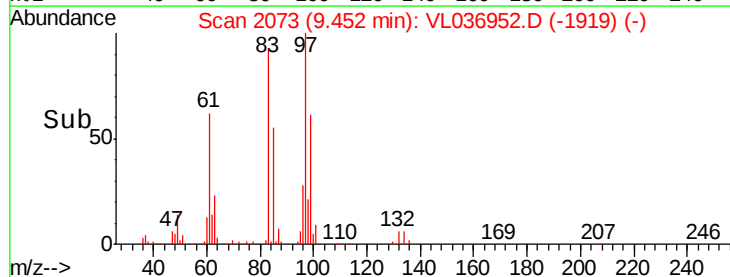
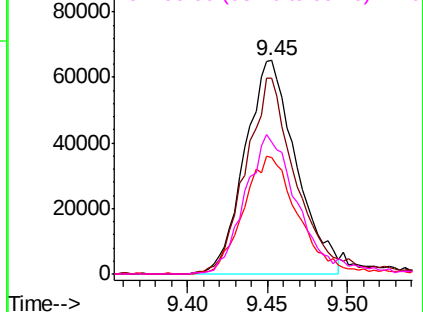
#47

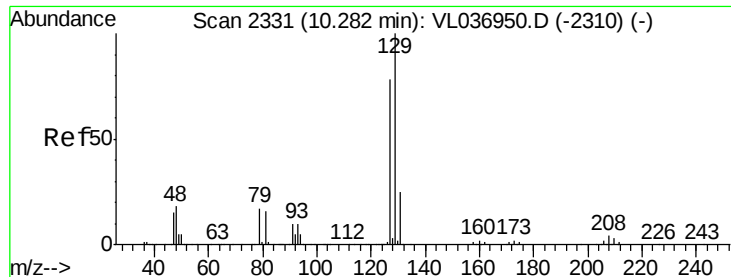
1,1,2-Trichloroethane
 Concen: 1.004 ppbv
 RT: 9.45 min Scan# 2073
 Delta R.T. -0.00 min
 Lab File: VL036952.D
 Acq: 18 May 2021 3:16

Tgt Ion	Ratio	Lower	Upper
97	100		
83	91.4	70.4	105.6
85	54.8	45.5	68.3
99	61.5	50.2	75.2



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: 1.074 ppbv

RT: 10.28 min Scan# 2330

Delta R.T. -0.00 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

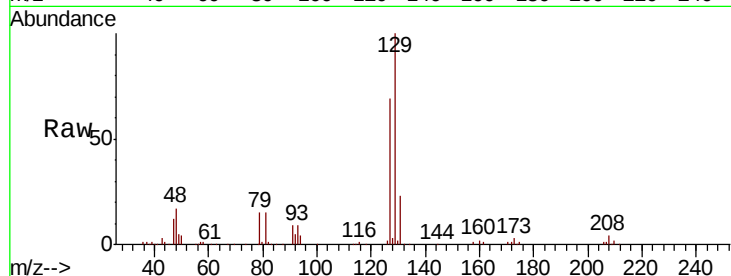
VSTDIC001

Tot Ion:129 Resp: 230980

Ion Ratio Lower Upper

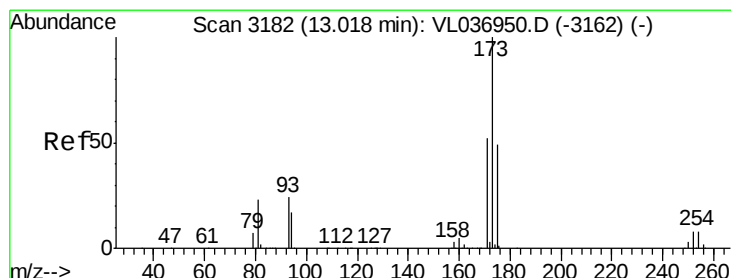
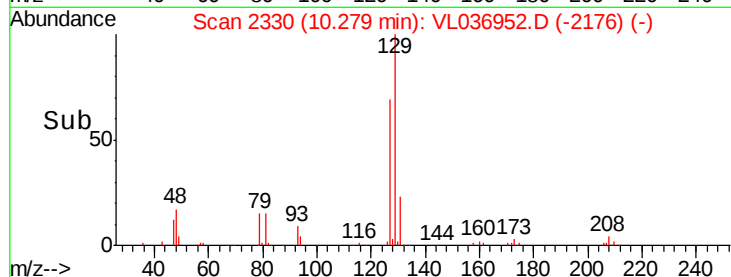
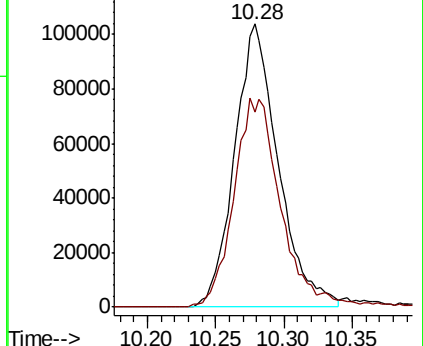
129 100

127 80.4 39.3 117.8



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#49

Bromoform

Concen: 0.989 ppbv

RT: 13.01 min Scan# 3180

Delta R.T. -0.01 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

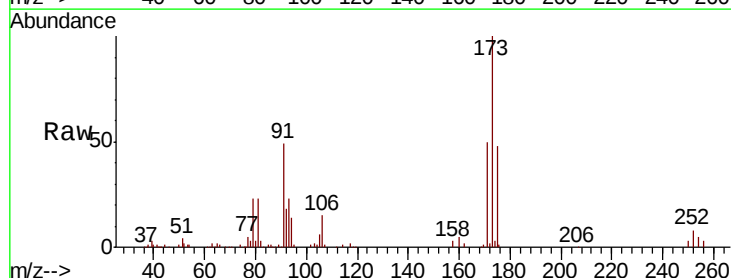
Tgt Ion:173 Resp: 175144

Ion Ratio Lower Upper

173 100

175 53.5 40.4 60.6

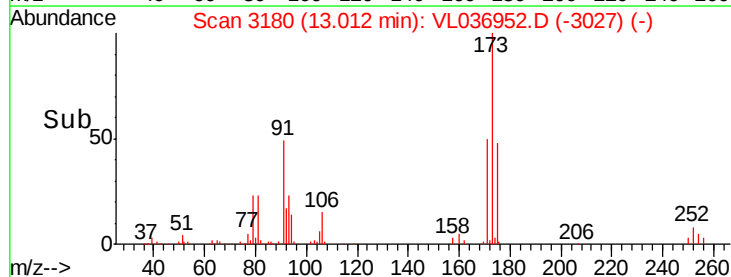
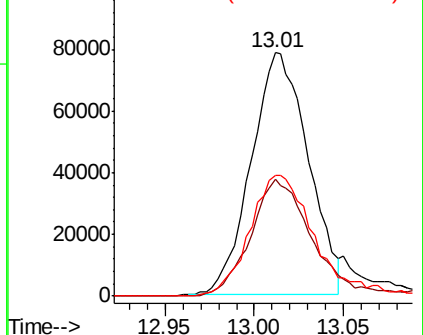
171 57.2 42.6 64.0

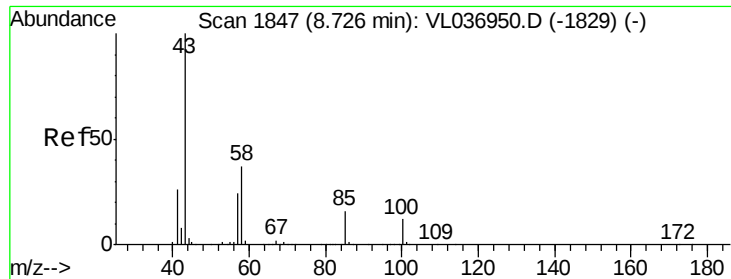


Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V

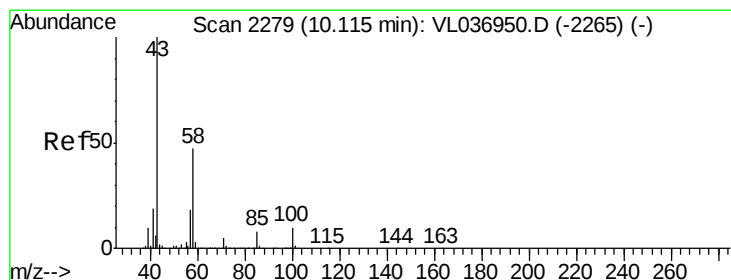
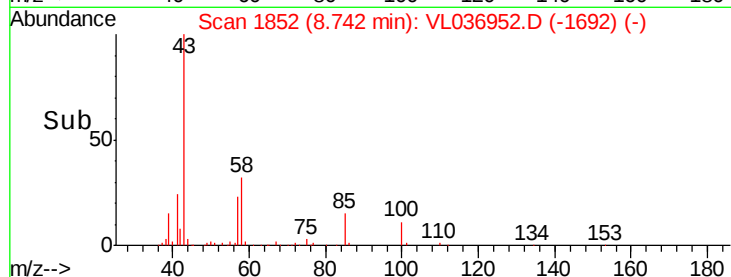
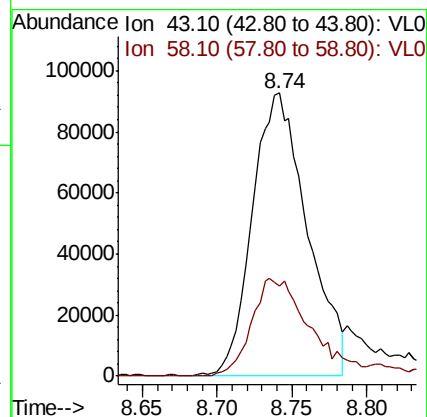
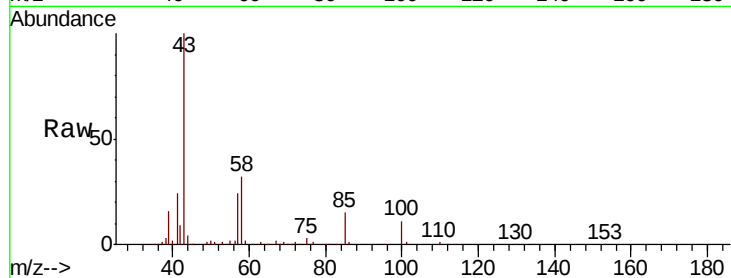




#50
4-Methyl-2-Pentanone
Concen: 1.135 ppbv
RT: 8.74 min Scan# 1852
Delta R.T. 0.02 min
Lab File: VL036952.D
Acq: 18 May 2021 3:16

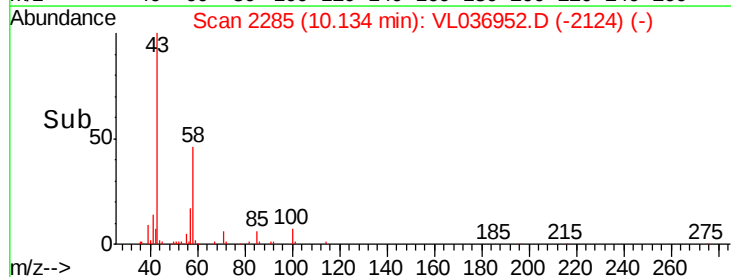
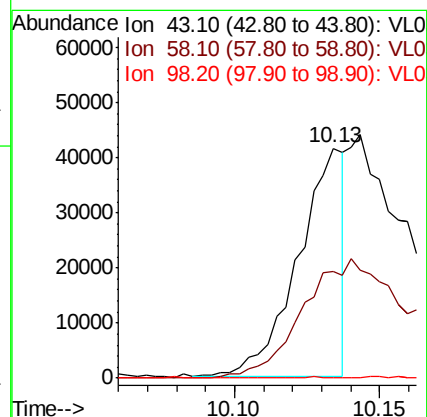
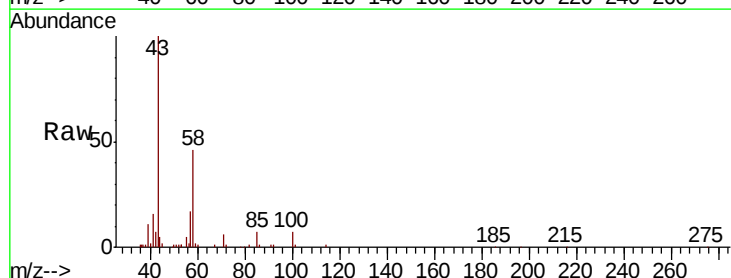
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

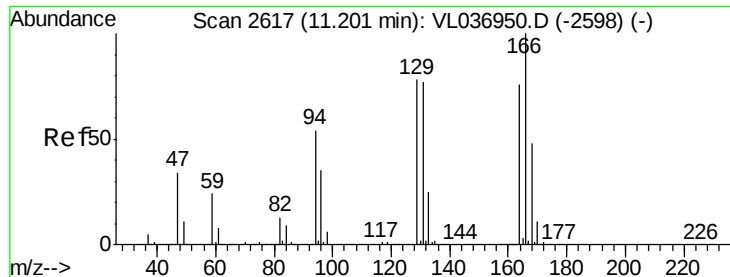
Tot Ion: 43 Resp: 235217
Ion Ratio Lower Upper
43 100
58 39.3 29.4 44.2



#51
2-Hexanone
Concen: 0.519 ppbv
RT: 10.13 min Scan# 2285
Delta R.T. 0.02 min
Lab File: VL036952.D
Acq: 18 May 2021 3:16

Tgt Ion: 43 Resp: 45868
Ion Ratio Lower Upper
43 100
58 0.0 41.1 61.7#
98 0.2 0.1 0.1#





#52

Tetrachloroethene

Concen: 1.271 ppbv

RT: 11.20 min Scan# 2616

Delta R.T. -0.00 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion:164 Resp: 148673

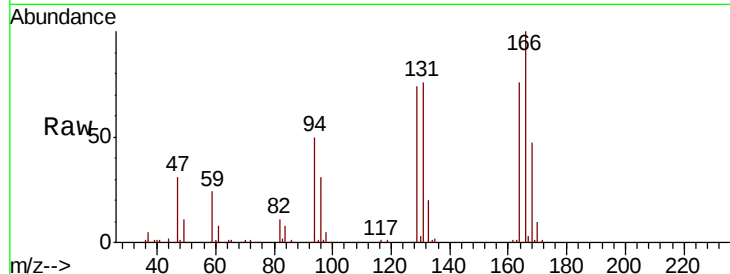
Ion Ratio Lower Upper

164 100

166 131.5 105.5 158.3

129 97.0 81.8 122.8

131 100.5 81.2 121.8

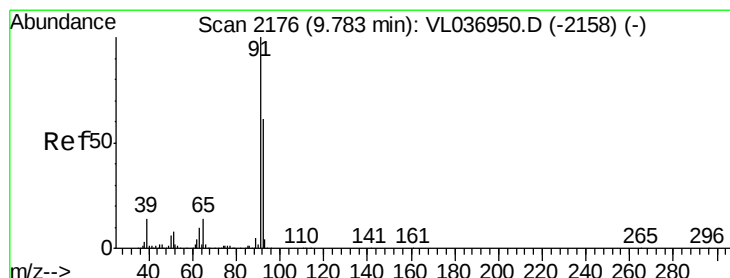
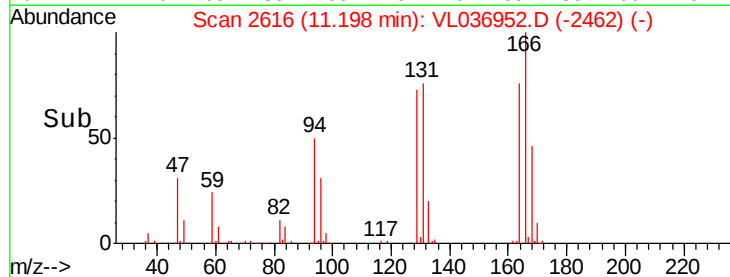
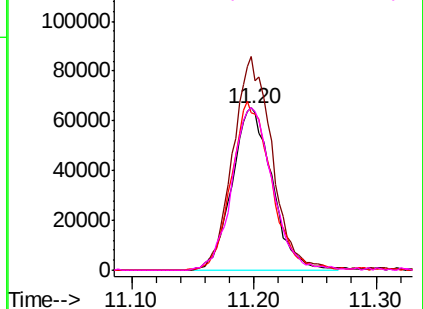


Abundance Ion 163.90 (163.60 to 164.60): V

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: 1.375 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VL036952.D

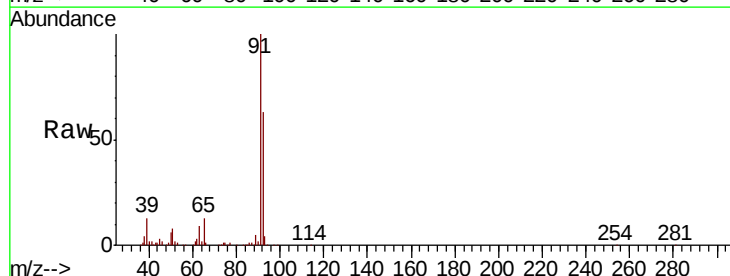
Acq: 18 May 2021 3:16

Tgt Ion: 91 Resp: 436197

Ion Ratio Lower Upper

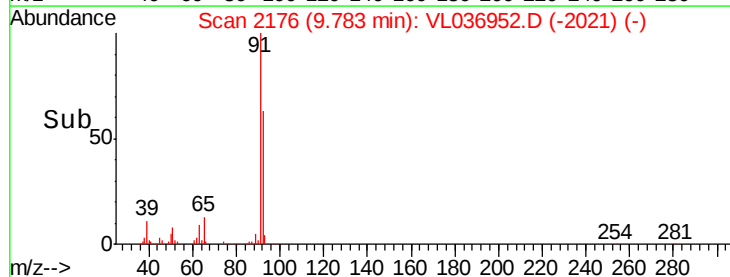
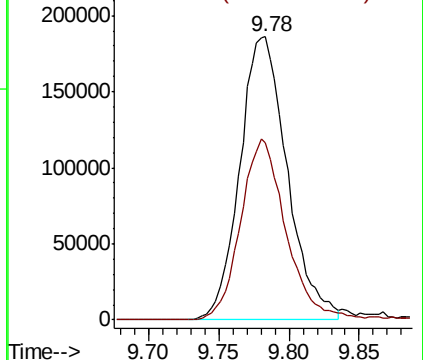
91 100

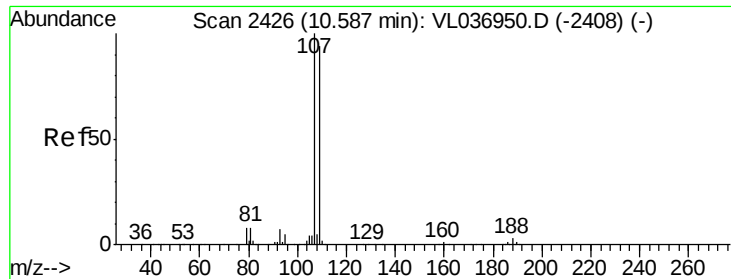
92 62.3 49.5 74.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#54

1,2-Dibromoethane

Concen: 1.107 ppbv

RT: 10.59 min Scan# 2426

Delta R.T. -0.00 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

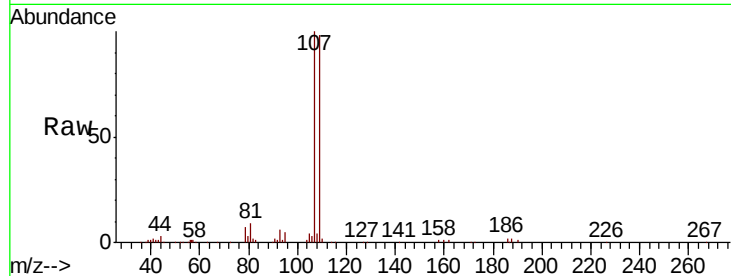
VSTDIC001

Tot Ion:107 Resp: 206626

Ion Ratio Lower Upper

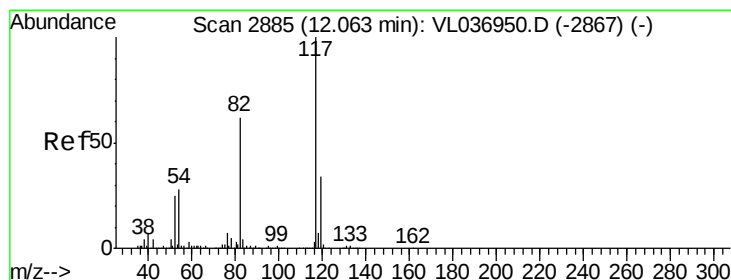
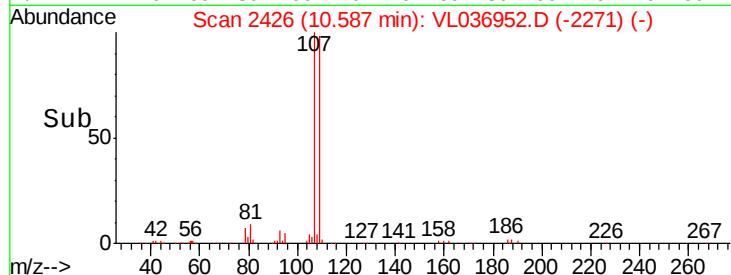
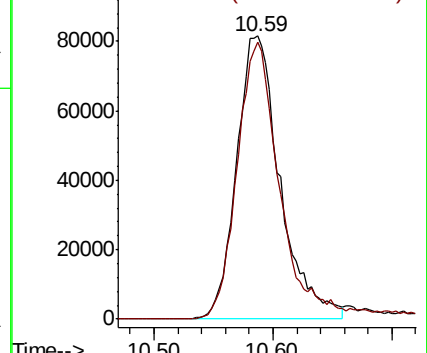
107 100

109 97.9 75.0 112.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2884

Delta R.T. -0.00 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

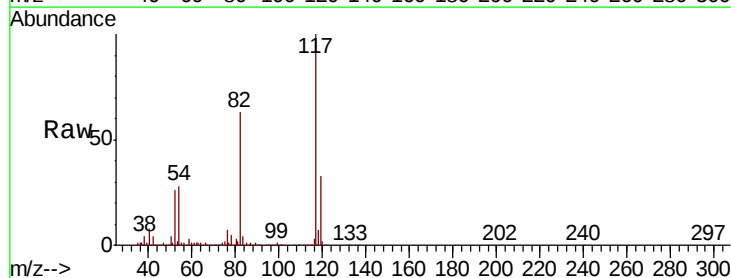
Tgt Ion:117 Resp: 3791035

Ion Ratio Lower Upper

117 100

82 62.3 52.6 79.0

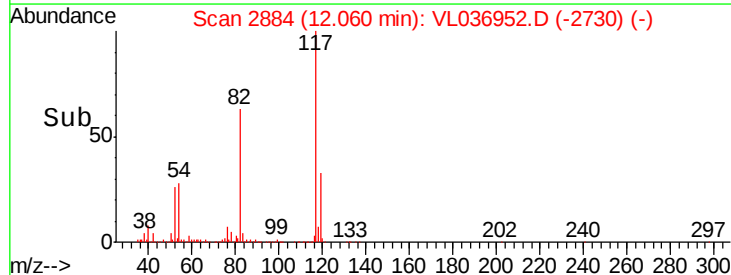
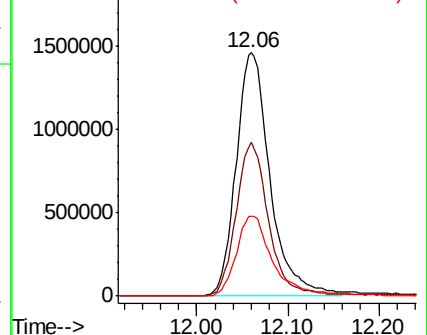
119 36.0 46.6 70.0#

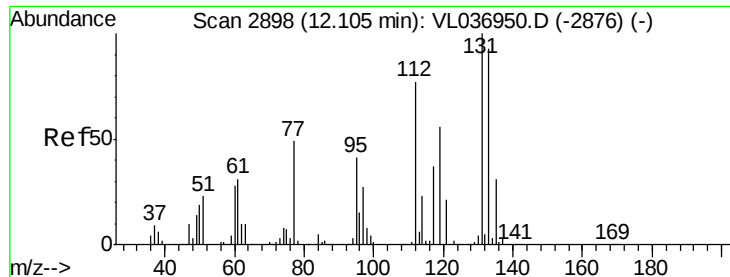


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

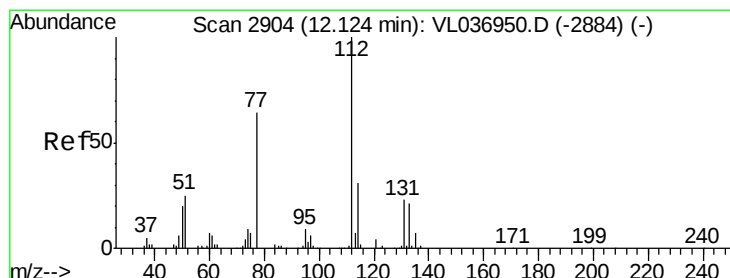
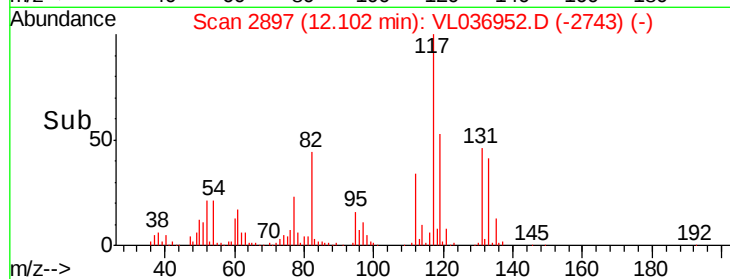
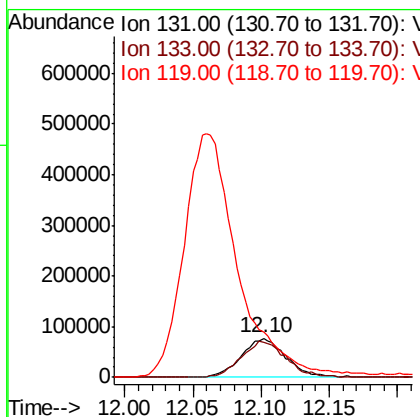
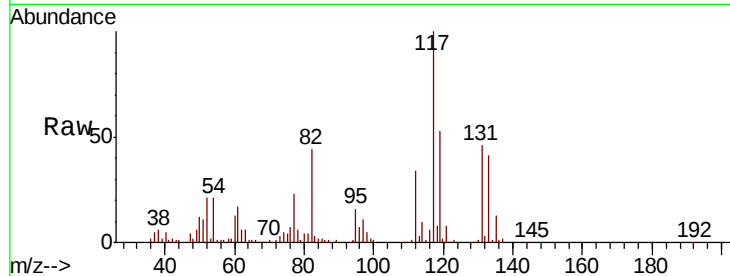




#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.995 ppbv
 RT: 12.10 min Scan# 2897
 Delta R.T. -0.00 min
 Lab File: VL036952.D
 Acq: 18 May 2021 3:16

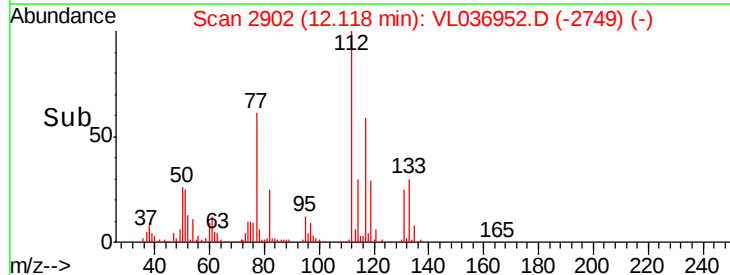
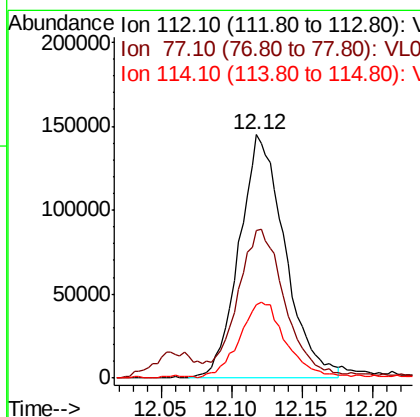
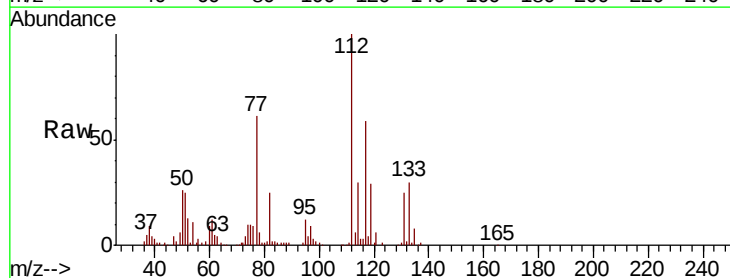
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

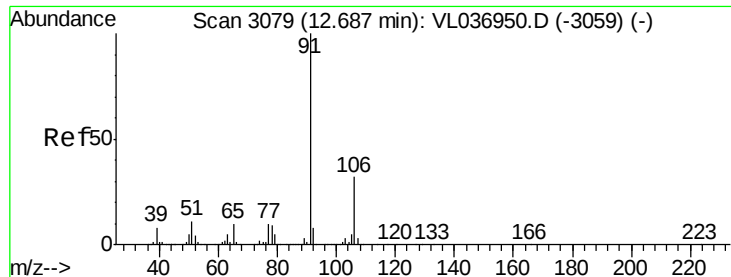
Tot Ion:131 Resp: 173357
 Ion Ratio Lower Upper
 131 100
 133 95.7 76.9 115.3
 119 773.5 120.2 180.4#



#57
 Chlorobenzene
 Concen: 1.028 ppbv
 RT: 12.12 min Scan# 2902
 Delta R.T. -0.01 min
 Lab File: VL036952.D
 Acq: 18 May 2021 3:16

Tgt Ion:112 Resp: 328955
 Ion Ratio Lower Upper
 112 100
 77 58.5 51.0 76.6
 114 29.3 28.3 34.5





#58

Ethyl Benzene

Concen: 1.281 ppbv

RT: 12.69 min Scan# 3079

Delta R.T. -0.00 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

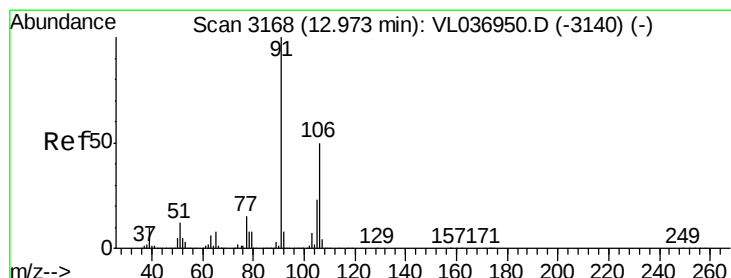
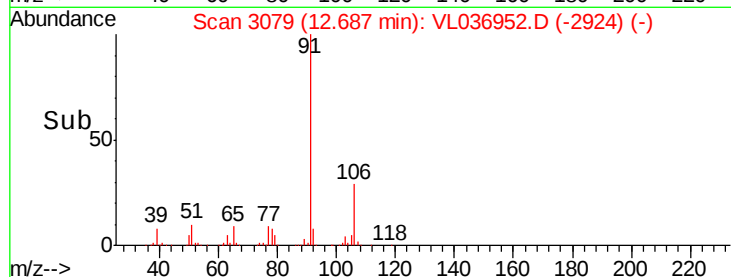
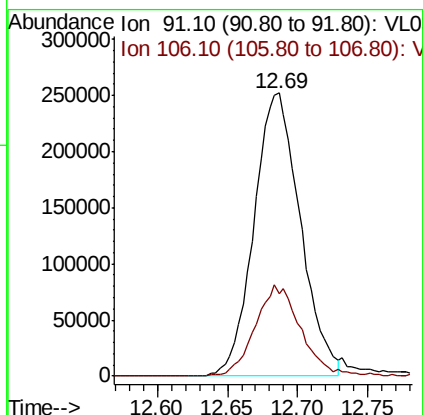
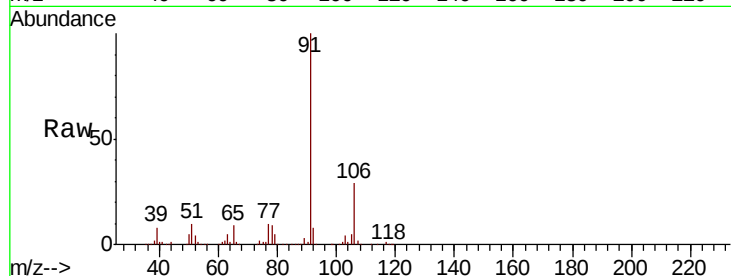
VSTDIC001

Tot Ion: 91 Resp: 577287

Ion Ratio Lower Upper

91 100

106 29.1 25.6 38.4



#59

m/p-Xylene

Concen: 1.024 ppbv

RT: 12.97 min Scan# 3167

Delta R.T. -0.00 min

Lab File: VL036952.D

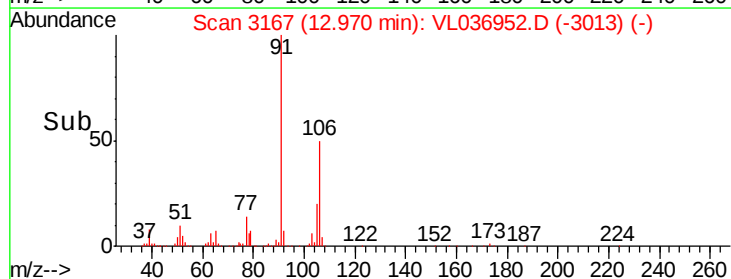
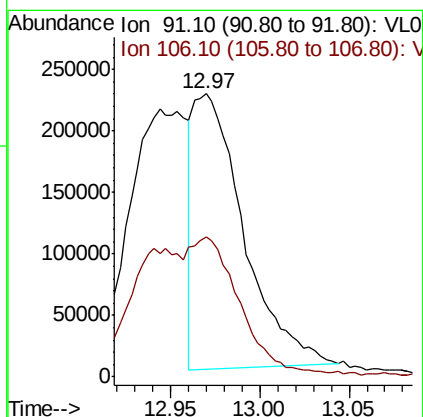
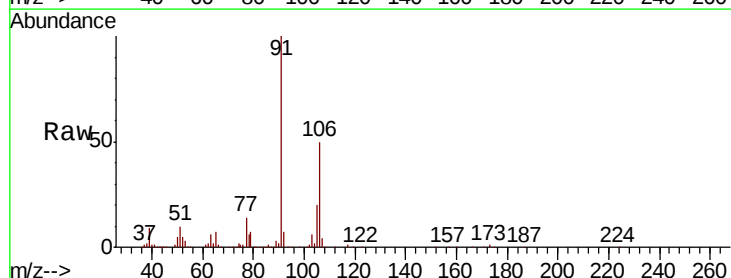
Acq: 18 May 2021 3:16

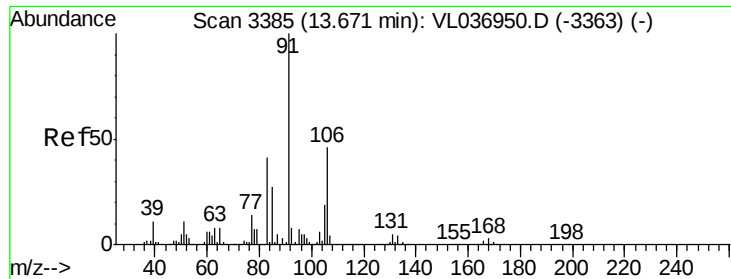
Tgt Ion: 91 Resp: 433600

Ion Ratio Lower Upper

91 100

106 102.8 37.4 56.2#

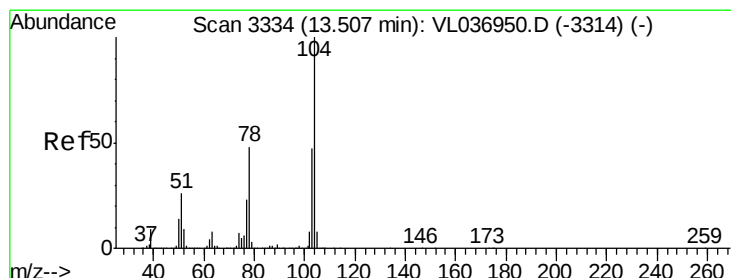
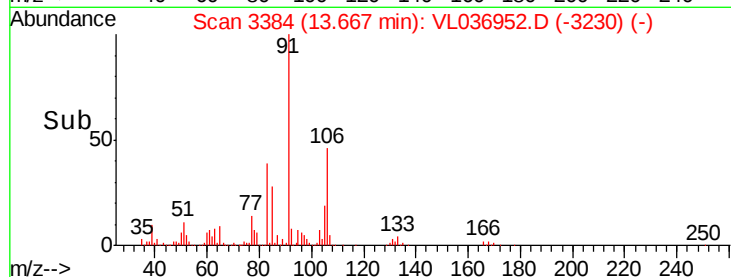
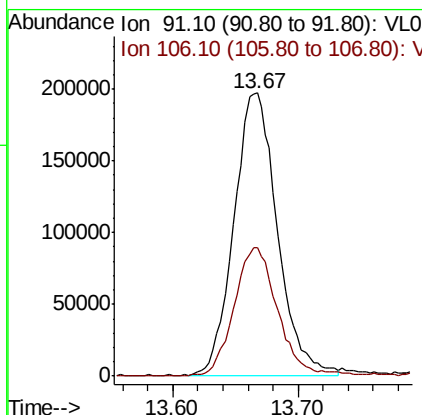
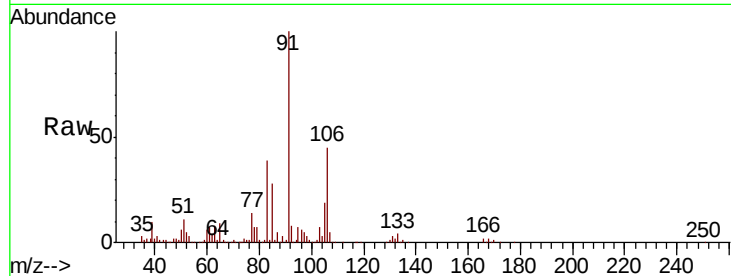




#60
o-Xylene
Concen: 1.154 ppbv
RT: 13.67 min Scan# 3384
Delta R.T. -0.00 min
Lab File: VL036952.D
Acq: 18 May 2021 3:16

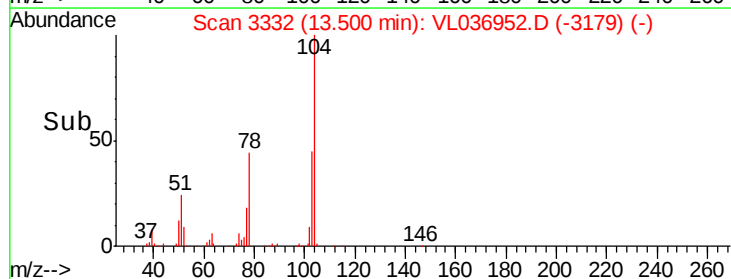
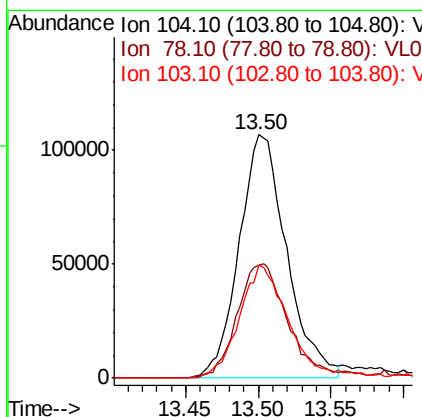
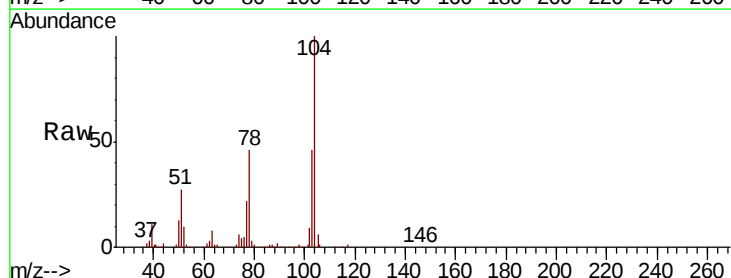
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

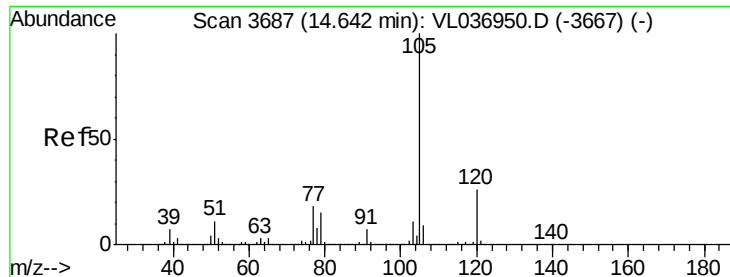
Tot Ion: 91 Resp: 472865
Ion Ratio Lower Upper
91 100
106 46.8 23.4 70.3



#61
Styrene
Concen: 1.442 ppbv
RT: 13.50 min Scan# 3332
Delta R.T. -0.01 min
Lab File: VL036952.D
Acq: 18 May 2021 3:16

Tgt Ion:104 Resp: 242508
Ion Ratio Lower Upper
104 100
78 52.5 39.0 58.6
103 48.8 38.0 57.0





#62

Isopropylbenzene

Concen: 1.205 ppbv

RT: 14.64 min Scan# 3686

Delta R.T. -0.00 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

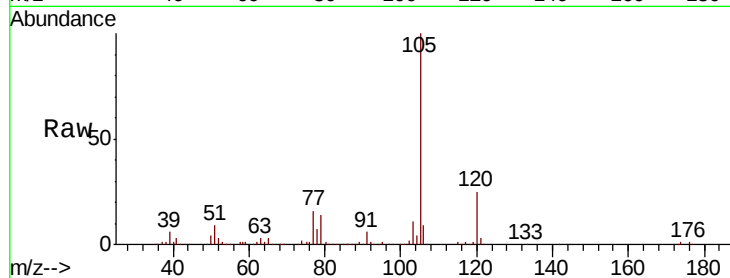
VSTDIC001

Tot Ion:105 Resp: 673104

Ion Ratio Lower Upper

105 100

120 26.5 21.7 32.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

14.64

250000

200000

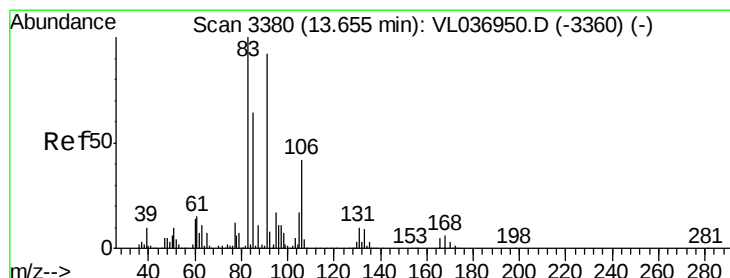
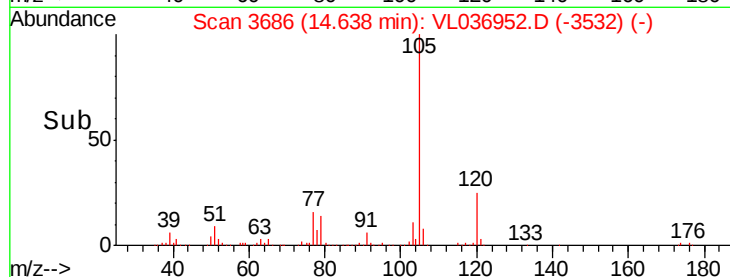
150000

100000

50000

0

Time-->



#63

1,1,2,2-Tetrachloroethane

Concen: 0.796 ppbv

RT: 13.65 min Scan# 3380

Delta R.T. -0.00 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

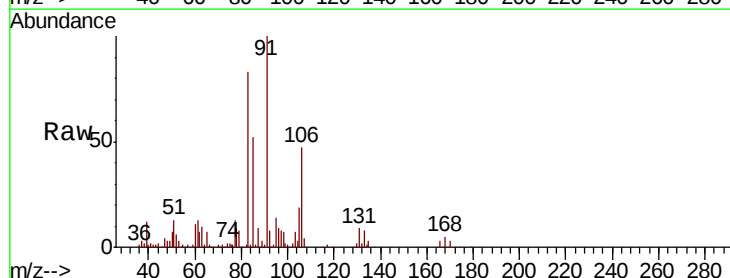
Tgt Ion: 83 Resp: 308078

Ion Ratio Lower Upper

83 100

131 10.8 5.0 15.0

85 67.5 32.9 98.6



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0

13.65

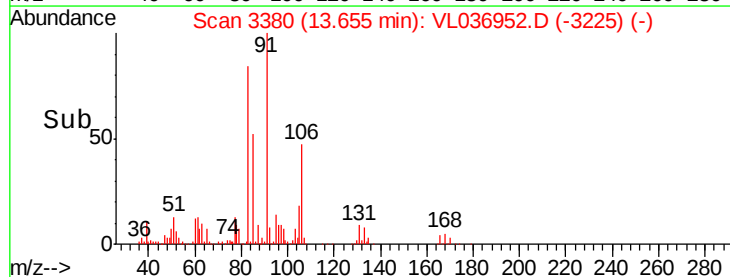
150000

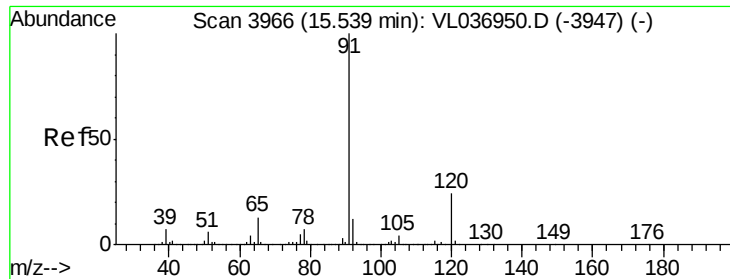
100000

50000

0

Time-->

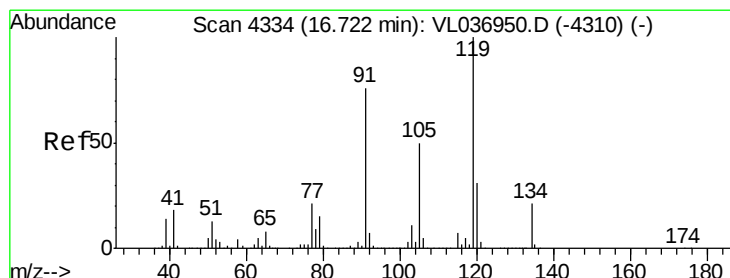
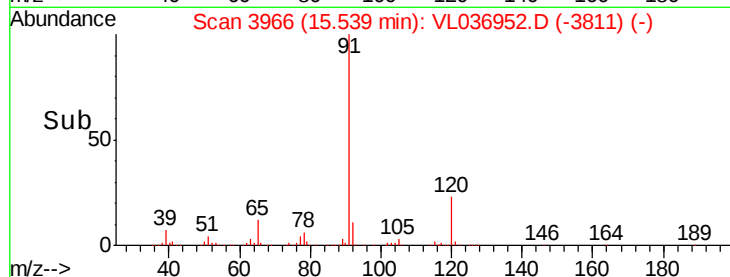
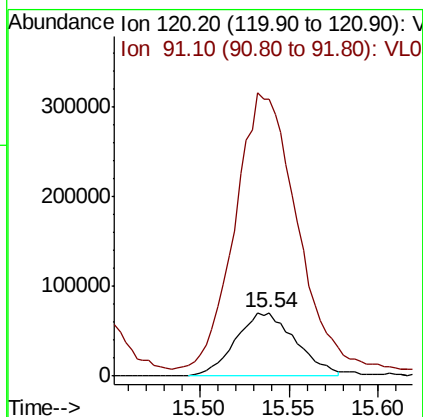
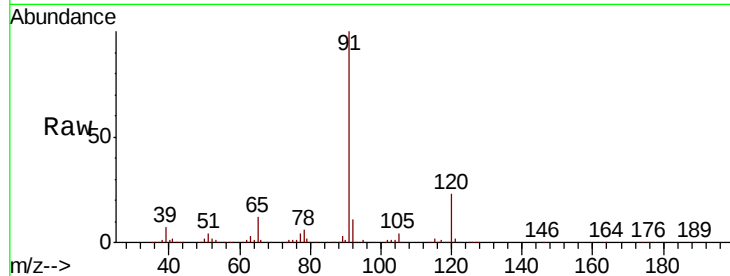




#64
n-propylbenzene
Concen: 1.199 ppbv
RT: 15.54 min Scan# 3966
Delta R.T. -0.00 min
Lab File: VL036952.D
Acq: 18 May 2021 3:16

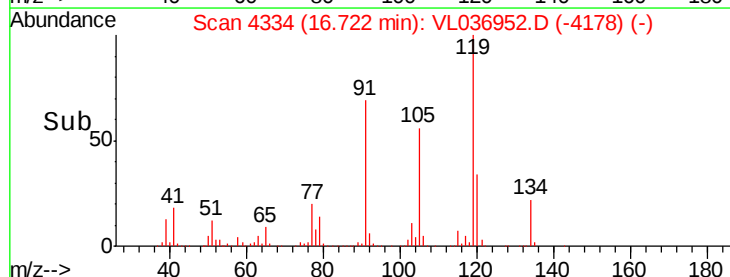
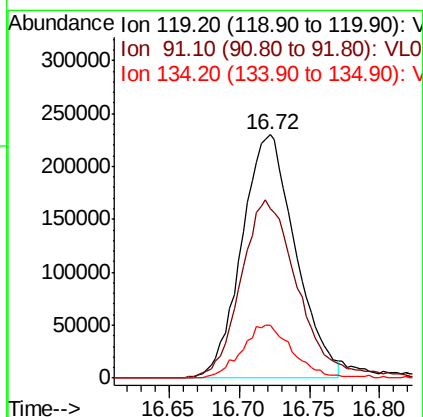
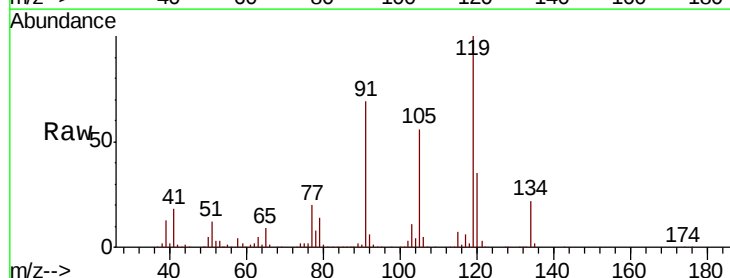
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

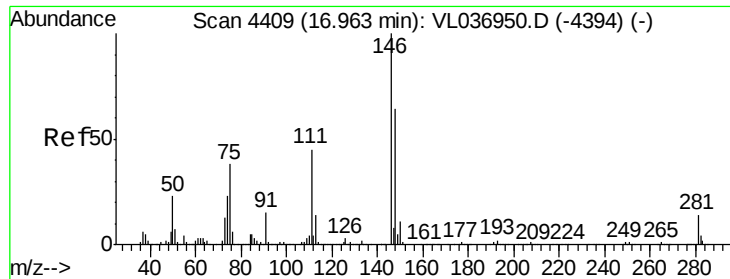
Tot Ion:120 Resp: 165732
Ion Ratio Lower Upper
120 100
91 490.8 343.8 515.6



#65
tert-Butylbenzene
Concen: 1.226 ppbv
RT: 16.72 min Scan# 4334
Delta R.T. -0.00 min
Lab File: VL036952.D
Acq: 18 May 2021 3:16

Tgt Ion:119 Resp: 607517
Ion Ratio Lower Upper
119 100
91 78.7 61.9 92.9
134 21.1 16.2 24.4

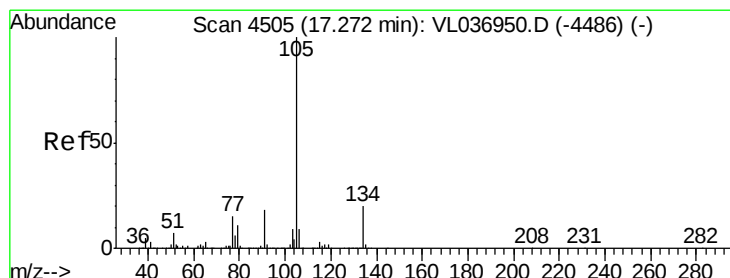
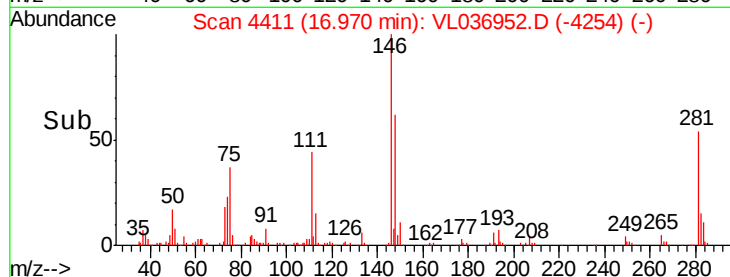
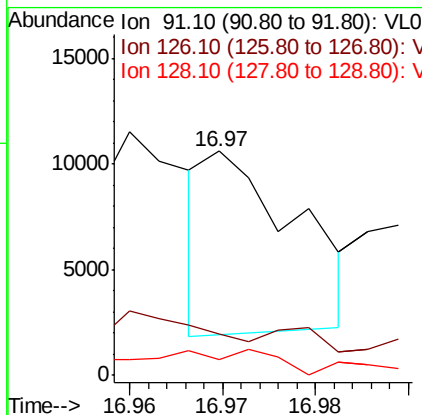
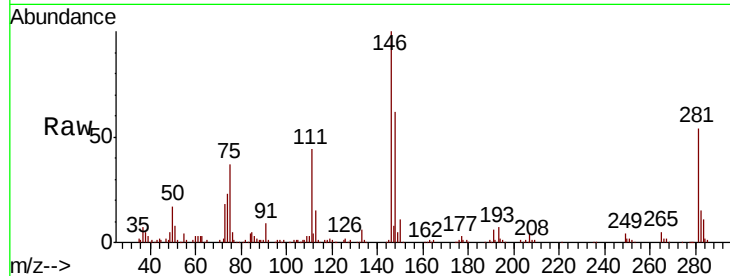




#66
Benzyl Chloride
Concen: 0.130 ppbv
RT: 16.97 min Scan# 4411
Delta R.T. 0.01 min
Lab File: VL036952.D
Acq: 18 May 2021 3:16

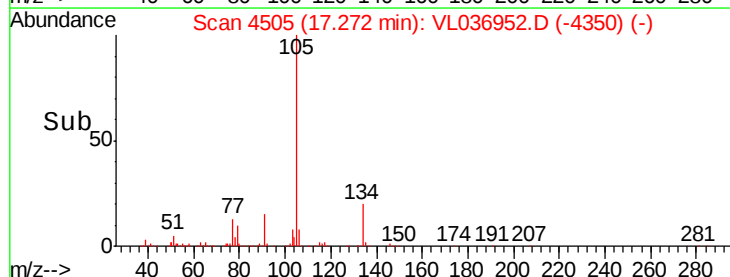
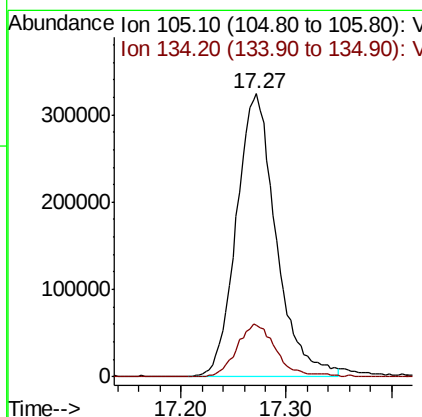
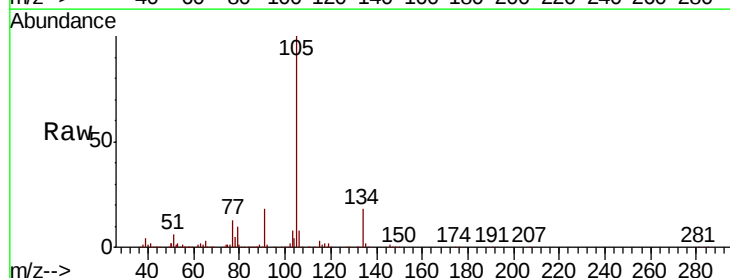
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

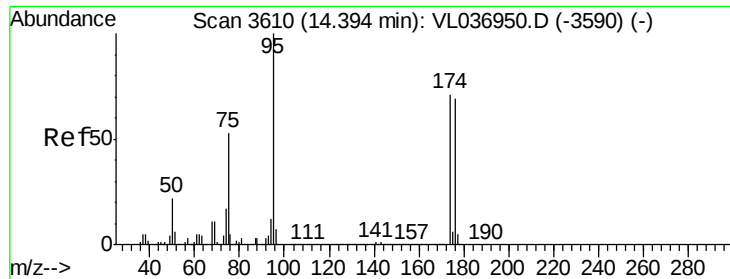
Tot Ion: 91 Resp: 5843
Ion Ratio Lower Upper
91 100
126 0.0 16.5 24.7#
128 34.9 5.5 8.3#



#67
sec-Butylbenzene
Concen: 1.203 ppbv
RT: 17.27 min Scan# 4505
Delta R.T. -0.00 min
Lab File: VL036952.D
Acq: 18 May 2021 3:16

Tgt Ion: 105 Resp: 841652
Ion Ratio Lower Upper
105 100
134 18.8 15.6 23.4

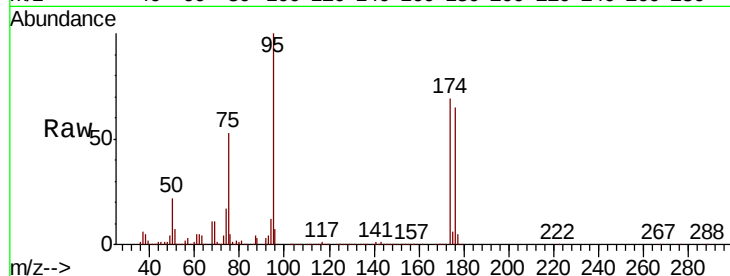




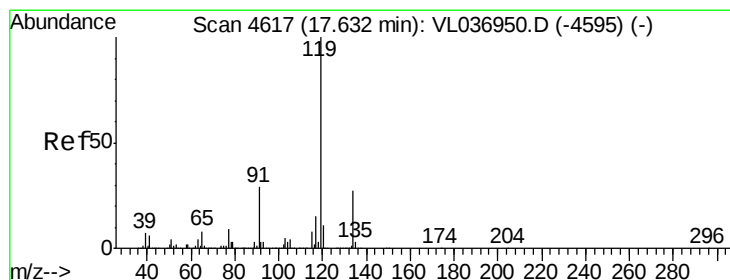
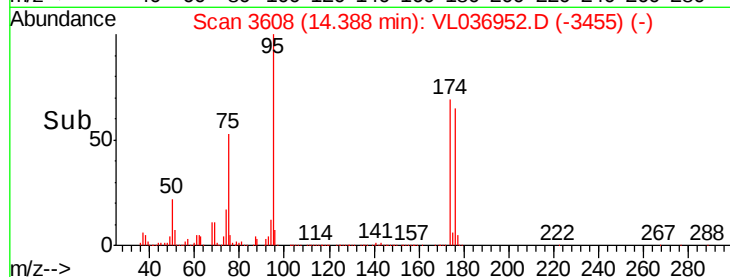
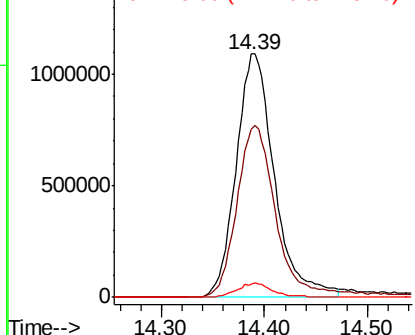
#68
1-Bromo-4-Fluorobenzene
Concen: 9.526 ppbv
RT: 14.39 min Scan# 3608
Delta R.T. -0.01 min
Lab File: VL036952.D
Acq: 18 May 2021 3:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 95 Resp: 2816128
Ion Ratio Lower Upper
95 100
174 75.2 58.4 87.6
175 5.8 4.4 6.6

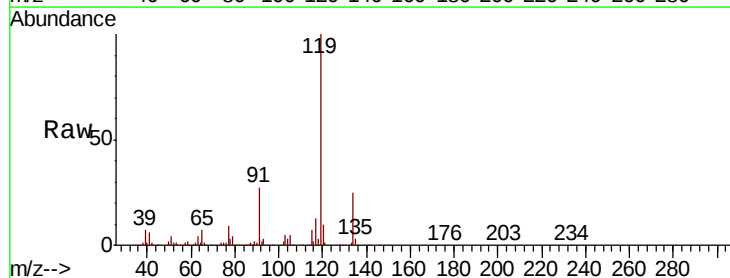


Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V

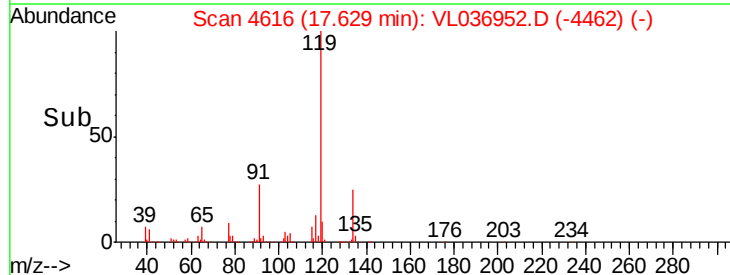
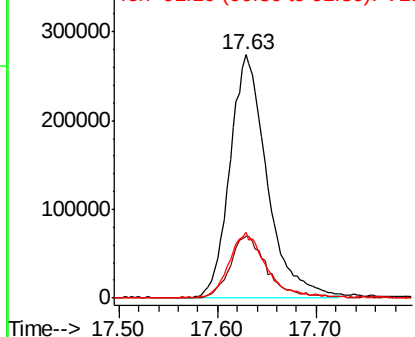


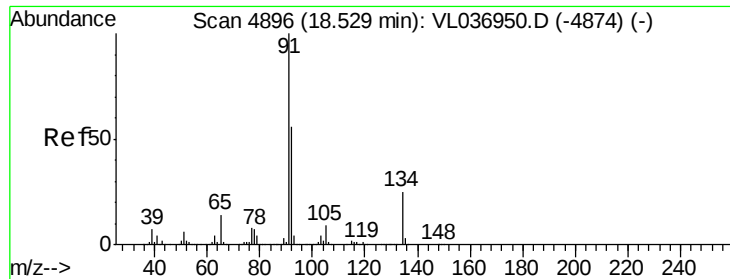
#69
p-Isopropyltoluene
Concen: 1.348 ppbv
RT: 17.63 min Scan# 4616
Delta R.T. -0.00 min
Lab File: VL036952.D
Acq: 18 May 2021 3:16

Tgt Ion: 119 Resp: 717857
Ion Ratio Lower Upper
119 100
134 25.9 21.2 31.8
91 26.9 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): VL0

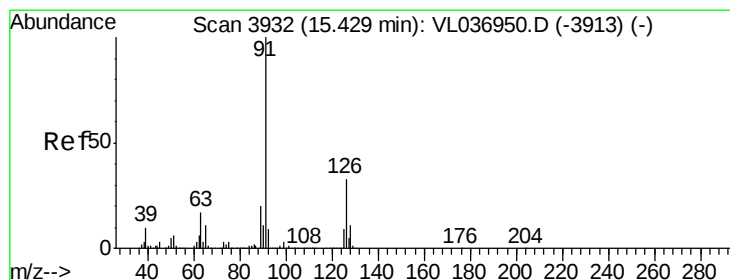
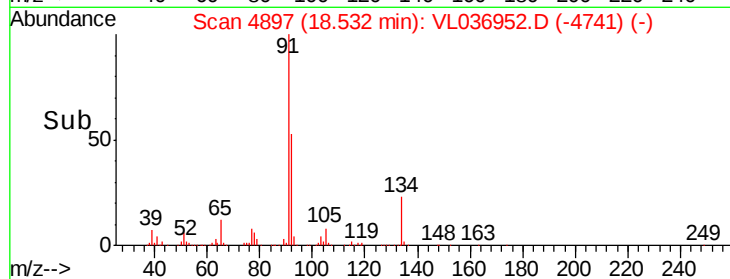
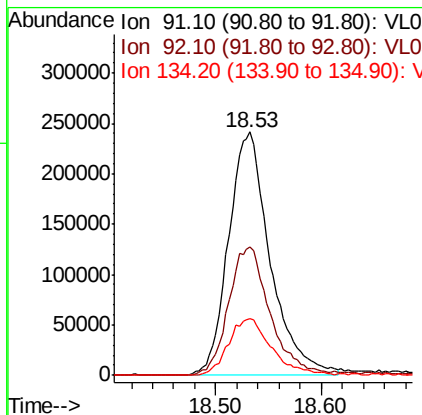
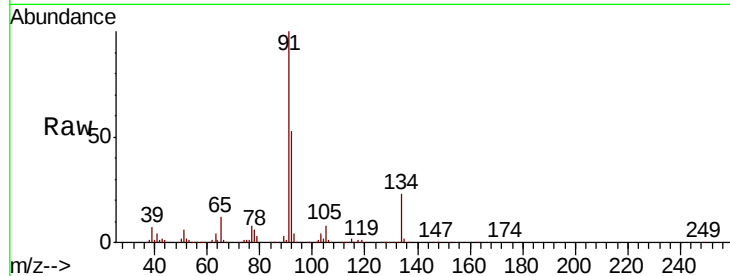




#70
n-Butylbenzene
Concen: 1.230 ppbv
RT: 18.53 min Scan# 4897
Delta R.T. 0.00 min
Lab File: VL036952.D
Acq: 18 May 2021 3:16

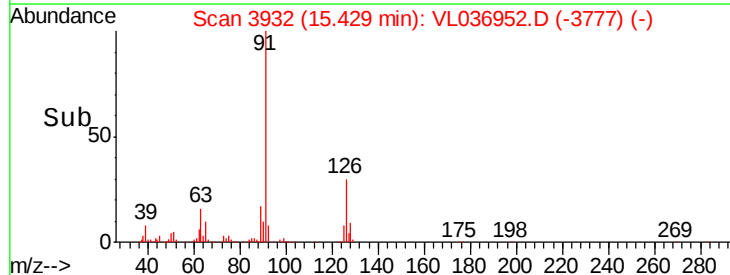
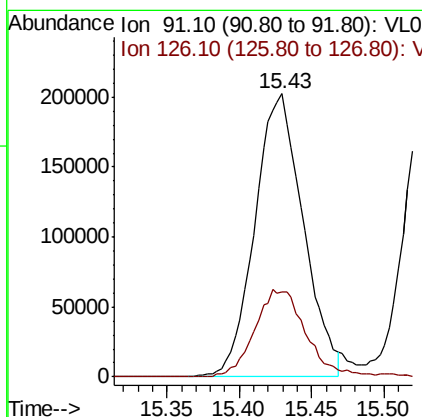
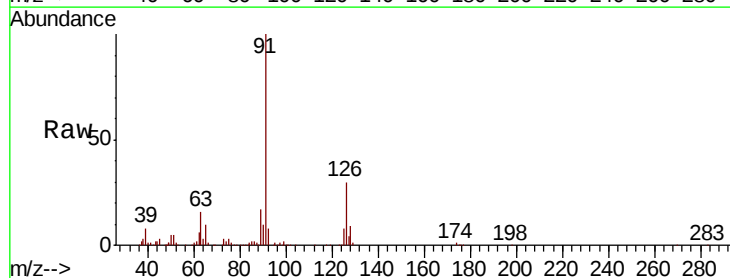
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

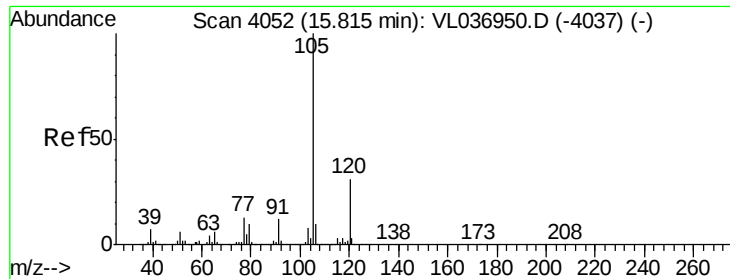
Tot Ion: 91 Resp: 656757
Ion Ratio Lower Upper
91 100
92 54.1 44.6 66.8
134 25.1 20.2 30.2



#71
2-Chlorotoluene
Concen: 1.175 ppbv
RT: 15.43 min Scan# 3932
Delta R.T. -0.00 min
Lab File: VL036952.D
Acq: 18 May 2021 3:16

Tgt Ion: 91 Resp: 469249
Ion Ratio Lower Upper
91 100
126 33.4 13.1 52.5





#72

4-Ethyltoluene

Concen: 1.280 ppbv

RT: 15.82 min Scan# 4053

Delta R.T. 0.00 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

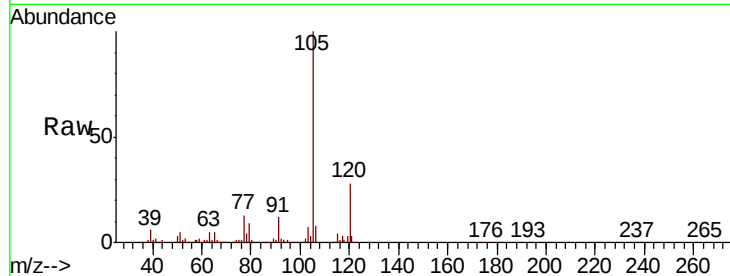
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion:	105	Resp:	543015
Ion	Ratio	Lower	Upper
105	100		
120	31.5	24.6	37.0
91	12.1	9.8	14.6
77	12.6	10.4	15.6

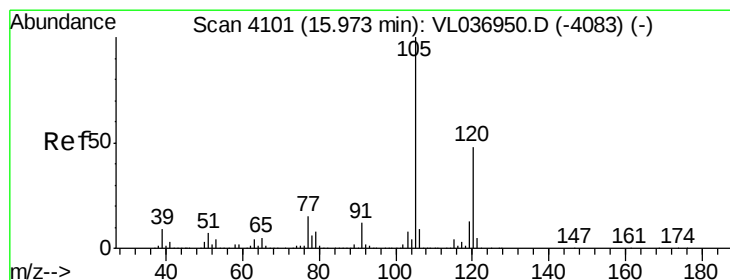
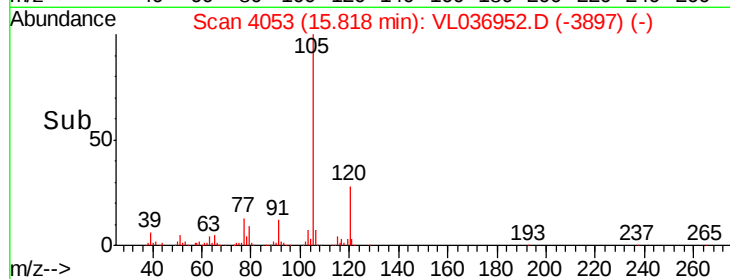
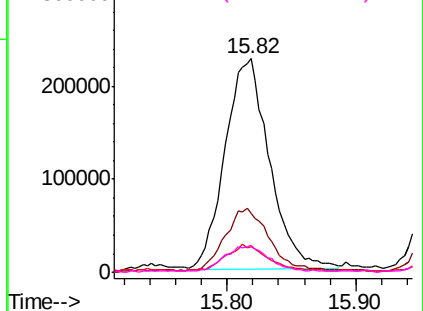


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 1.190 ppbv

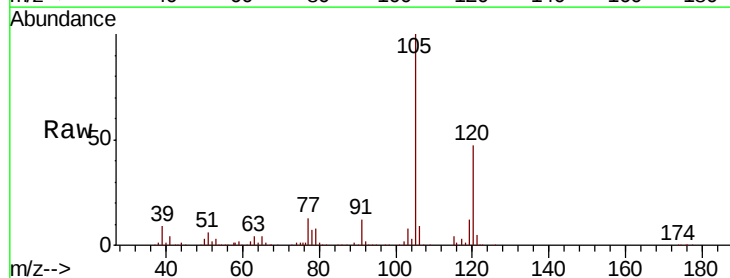
RT: 15.97 min Scan# 4101

Delta R.T. -0.00 min

Lab File: VL036952.D

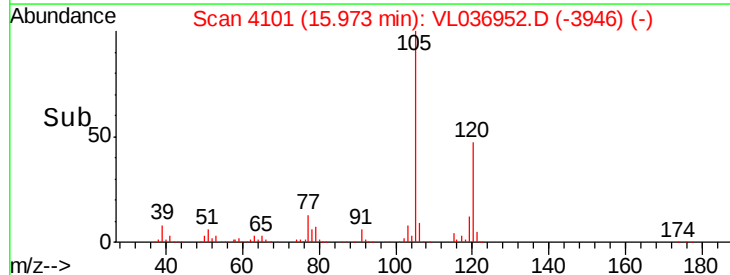
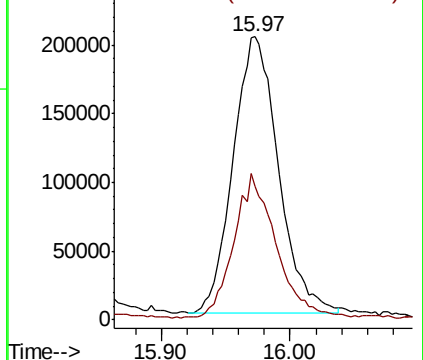
Acq: 18 May 2021 3:16

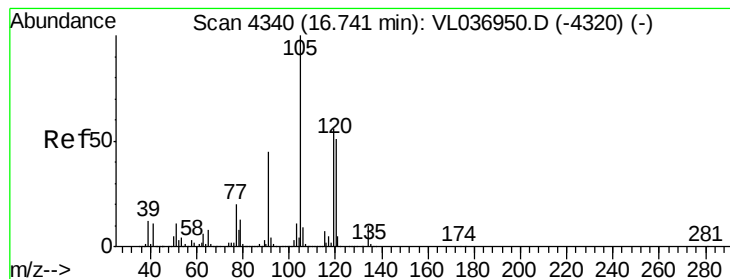
Tgt Ion:	105	Resp:	493390
Ion	Ratio	Lower	Upper
105	100		
120	47.3	38.6	58.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#74

1,2,4-Trimethylbenzene

Concen: 1.198 ppbv

RT: 16.74 min Scan# 4340

Delta R.T. -0.00 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion:105 Resp: 545399

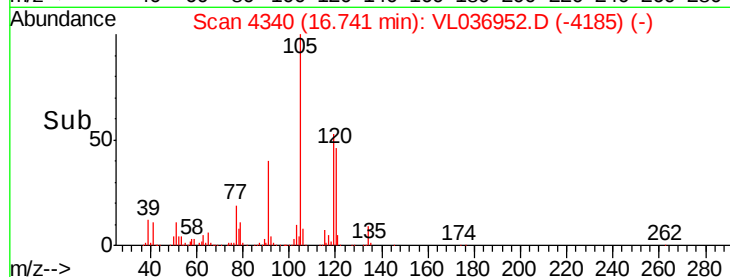
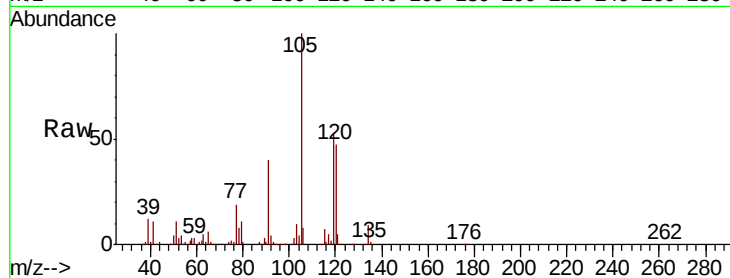
Ion Ratio Lower Upper

105 100

120 46.3 40.6 61.0

91 37.9 37.4 56.0

77 18.8 16.2 24.4

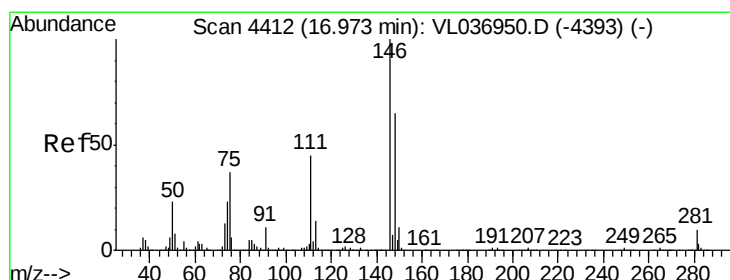
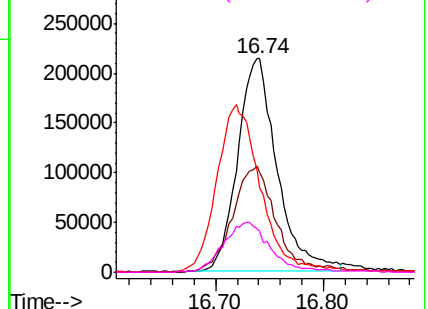


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#75

1,3-Dichlorobenzene

Concen: 1.050 ppbv

RT: 16.97 min Scan# 4411

Delta R.T. -0.00 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

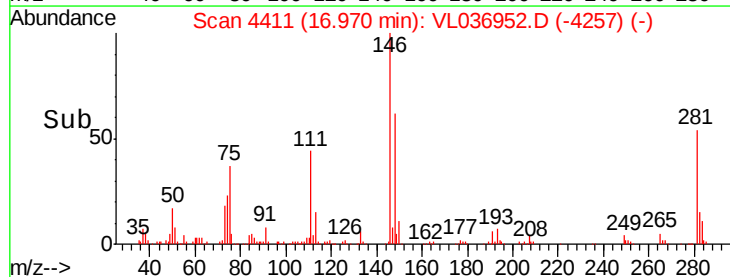
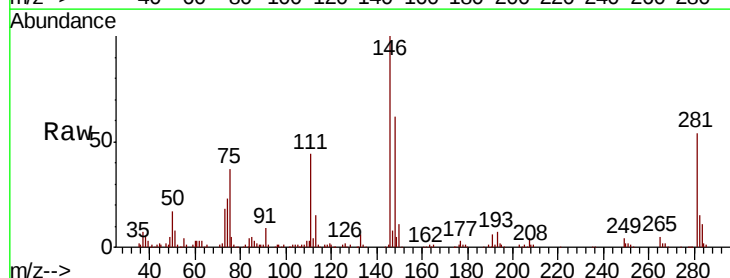
Tgt Ion:146 Resp: 309974

Ion Ratio Lower Upper

146 100

111 44.9 22.2 66.6

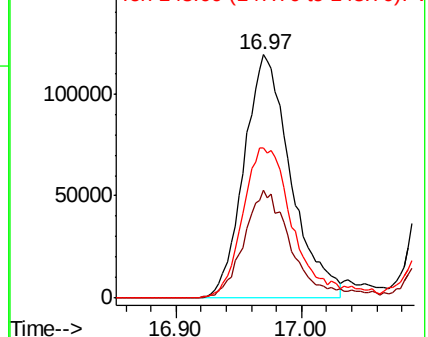
148 67.7 32.3 96.8

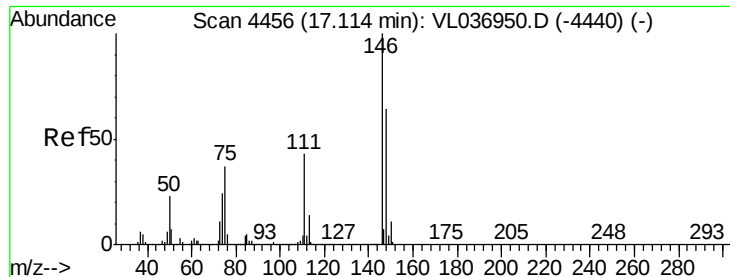


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

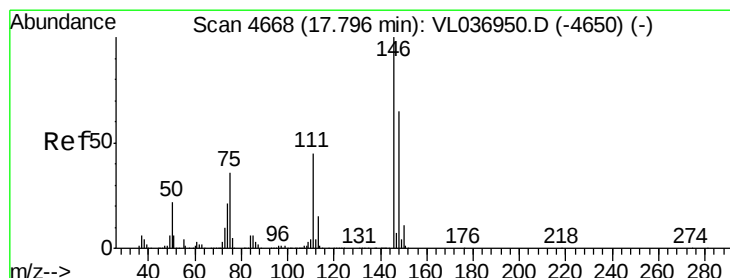
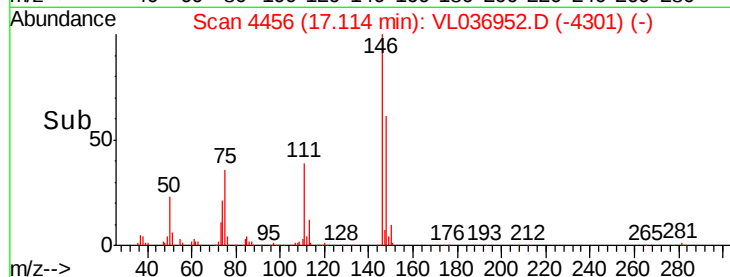
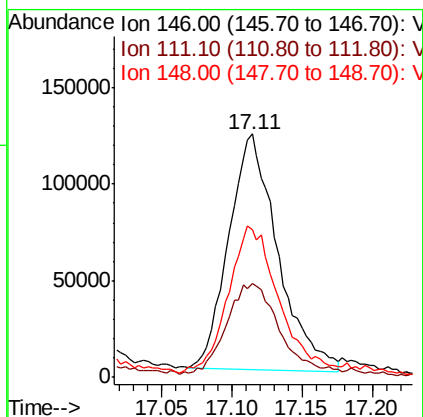
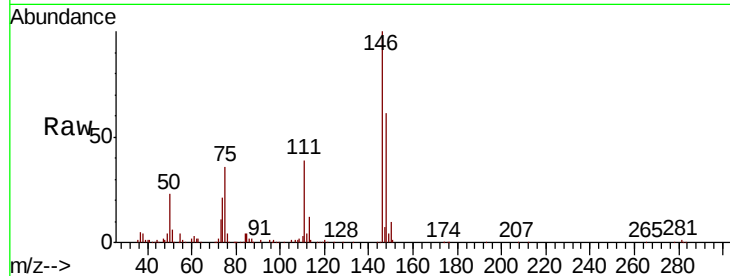




#76
 1,4-Dichlorobenzene
 Concen: 1.123 ppbv
 RT: 17.11 min Scan# 4456
 Delta R.T. -0.00 min
 Lab File: VL036952.D
 Acq: 18 May 2021 3:16

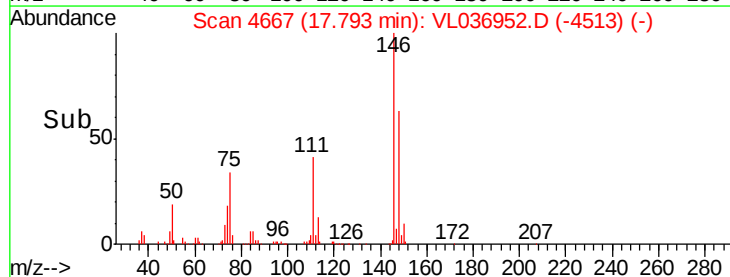
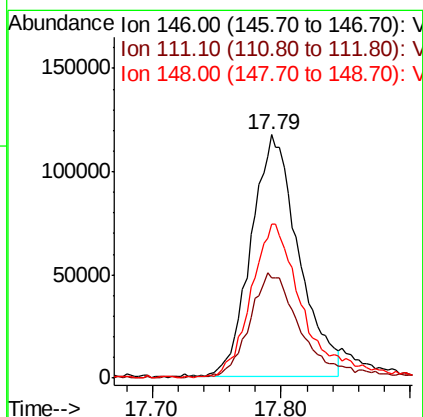
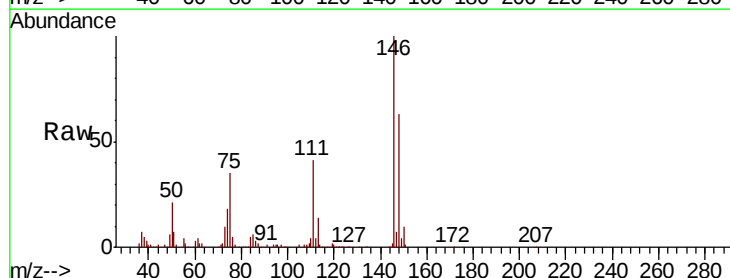
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

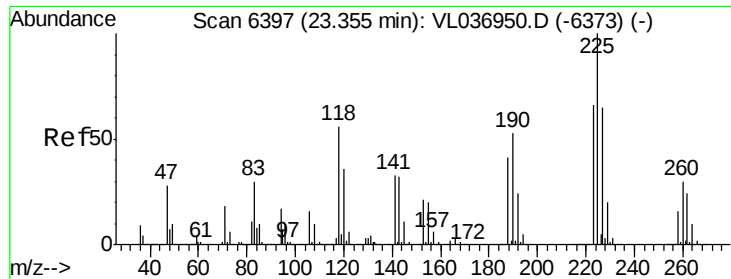
Tot Ion	Ratio	Lower	Upper
146	100		
111	46.2	22.6	67.7
148	70.7	33.5	100.5



#77
 1,2-Dichlorobenzene
 Concen: 1.121 ppbv
 RT: 17.79 min Scan# 4667
 Delta R.T. -0.00 min
 Lab File: VL036952.D
 Acq: 18 May 2021 3:16

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.6	23.1	69.2
148	69.3	32.5	97.4





#78

Hexachloro-1,3-Butadiene

Concen: 1.128 ppbv

RT: 23.36 min Scan# 6397

Delta R.T. -0.00 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

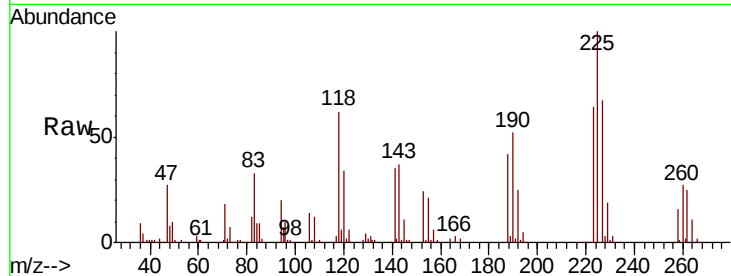
Tot Ion:225 Resp: 269289

Ion Ratio Lower Upper

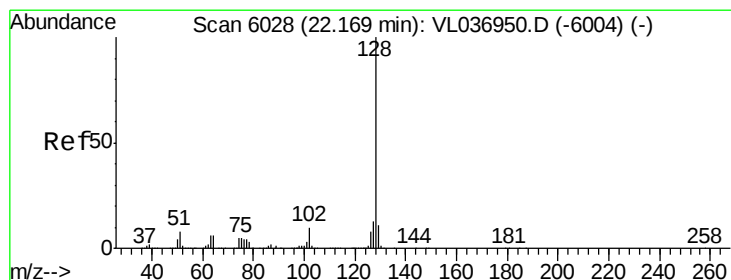
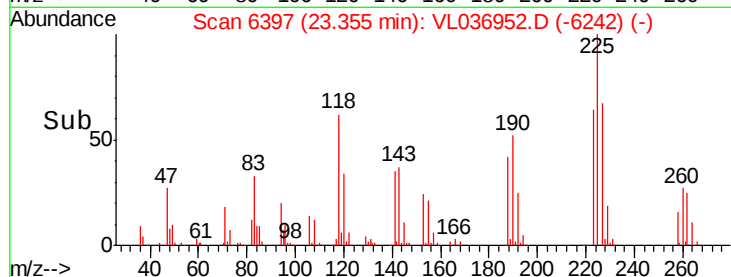
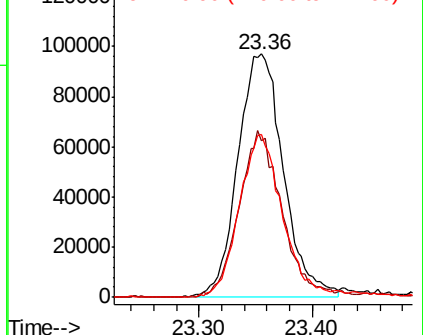
225 100

223 67.5 51.9 77.9

227 66.4 51.8 77.6



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: 1.873 ppbv

RT: 22.18 min Scan# 6030

Delta R.T. 0.01 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

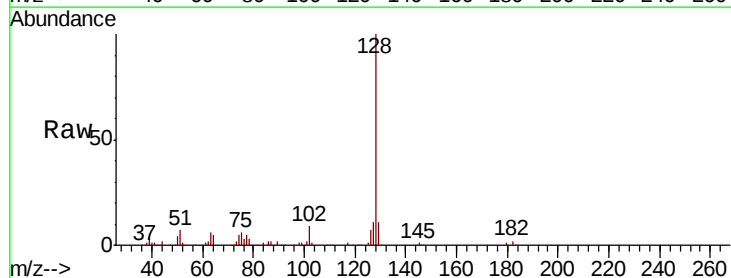
Tgt Ion:128 Resp: 385227

Ion Ratio Lower Upper

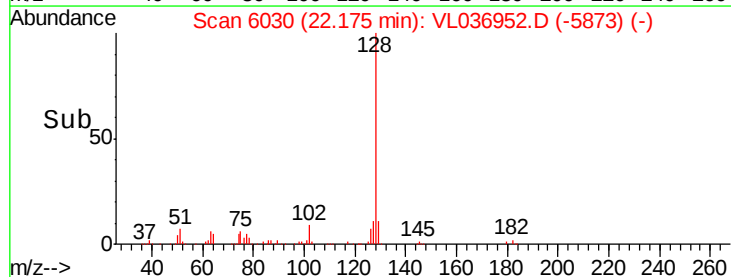
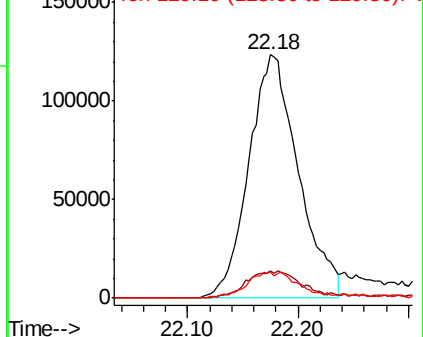
128 100

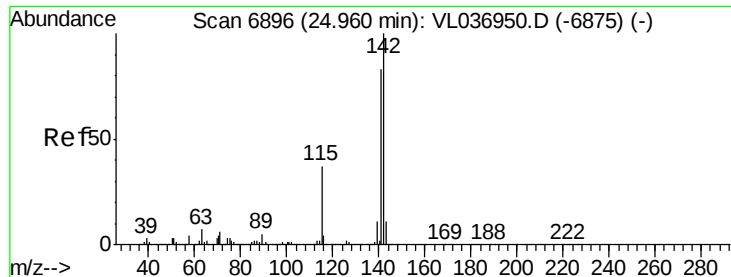
127 11.1 10.4 15.6

129 10.8 9.0 13.6



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: 0.793 ppbv

RT: 25.03 min Scan# 6918

Delta R.T. 0.07 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

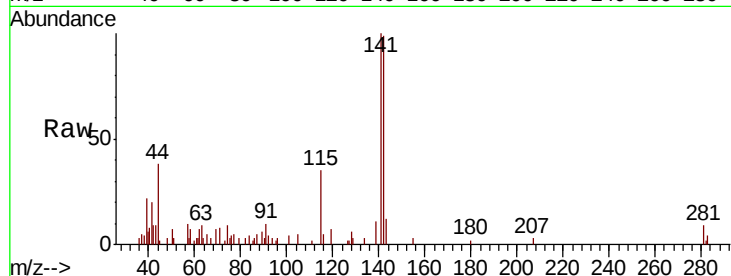
Tot Ion:142 Resp: 23907

Ion Ratio Lower Upper

142 100

141 101.5 69.3 103.9

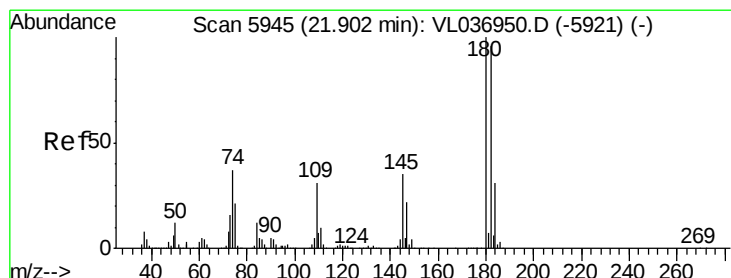
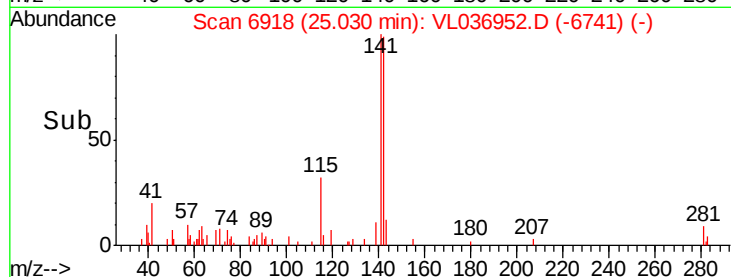
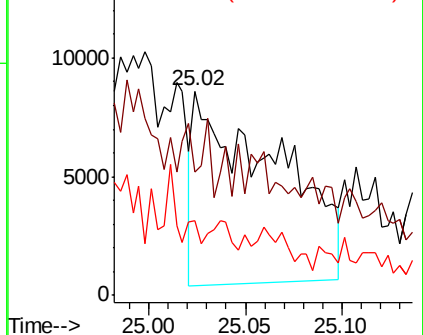
115 36.2 29.1 43.7



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: 0.878 ppbv

RT: 21.90 min Scan# 5944

Delta R.T. -0.00 min

Lab File: VL036952.D

Acq: 18 May 2021 3:16

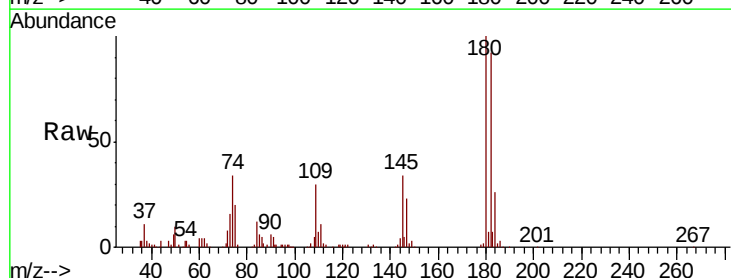
Tgt Ion:180 Resp: 129167

Ion Ratio Lower Upper

180 100

182 0.0 81.7 122.5#

184 0.0 24.9 37.3#



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

