

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\
 Data File : VL036956.D
 Acq On : 18 May 2021 5:47
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Quant Time: May 18 07:10:15 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	1327149	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3979744	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	5106022	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2981283	7.49	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	74.90%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.03	85	2326217	10.276	ppbv	99
3) Chlorodifluoromethane	2.97	51	3182006	12.199	ppbv	99
4) Chloromethane	3.12	50	1139386	13.371	ppbv	100
5) Vinyl Chloride	3.24	62	1227384	13.214	ppbv	99
6) Bromomethane	3.46	94	642369	13.709	ppbv	99
7) Chloroethane	3.54	64	437497	14.629	ppbv	98
8) Dichlorotetrafluoroethane	3.17	85	2709741	12.691	ppbv	100
9) Propene	2.99	41	1170100	15.733	ppbv	99
10) Heptane	8.10	43	2866263	16.192	ppbv	100
11) Trichlorofluoromethane	3.93	101	2820143	13.839	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.47	101	2003046	14.551	ppbv	100
13) Ethanol	3.59	45	107790	7.636	ppbv	97
14) Bromoethene	3.72	108	893262	16.174	ppbv	99
15) Acetone	3.83	43	1503596	12.063	ppbv	99
16) 1,3-Butadiene	3.31	39	1176894	14.596	ppbv	100
17) tert-Butyl alcohol	4.28	59	1454435	12.626	ppbv	100
18) 1,1-Dichloroethene	4.27	96	923806	16.330	ppbv	100
19) Isopropyl Alcohol	3.95	45	799189	11.255	ppbv #	86
20) Methylene Chloride	4.33	84	785030	7.714	ppbv	98
21) Allyl Chloride	4.39	41	1433992	15.627	ppbv	99
22) trans-1,2-Dichloroethene	4.86	96	935661	16.123	ppbv	98
23) Vinyl Acetate	5.06	43	3105811	17.522	ppbv	99
24) 1,1-Dichloroethane	4.99	63	2004154	14.880	ppbv	100
25) Ethyl Acetate	5.66	43	4322121	14.036	ppbv	100
26) Hexane	5.67	57	2109389	13.338	ppbv	99
27) Carbon Disulfide	4.53	76	2356111	16.826	ppbv	100
28) Methyl tert-Butyl Ether	5.02	73	2566179	16.794	ppbv	100
29) Chloroform	5.73	83	3154562	13.295	ppbv	97
30) Cyclohexane	7.11	84	1890673	15.630	ppbv	99
31) cis-1,2-Dichloroethene	5.53	61	2112604	17.052	ppbv	98
32) 1,1,1-Trichloroethane	6.49	97	3274872	12.948	ppbv	99
34) 2-Butanone	5.23	43	2147757	14.112	ppbv	99
35) Carbon Tetrachloride	7.00	117	3368514	10.829	ppbv	98
36) Benzene	6.87	78	4463835	13.963	ppbv	99
37) 1,2-Dichloroethane	6.29	62	2358004	12.434	ppbv	100
38) Trichloroethene	7.81	130	1700616	12.969	ppbv	99
39) 1,2-Dichloropropane	7.59	63	1754784	13.399	ppbv	99
40) 1,4-Dioxane	7.81	88	334877	9.805	ppbv #	100
41) Tetrahydrofuran	6.03	42	1133978	18.245	ppbv	100
42) Bromodichloromethane	7.77	83	3509476	12.568	ppbv	99
43) Methyl Methacrylate	7.99	69	1648541	17.718	ppbv	100

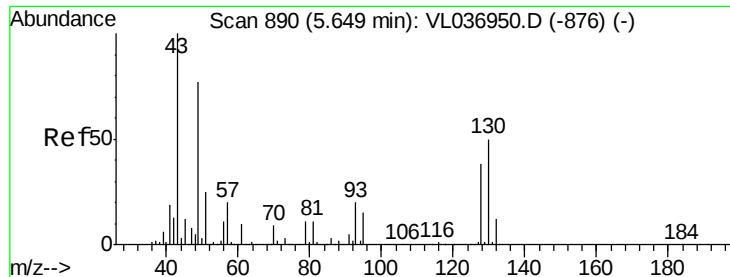
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 07:06:50 2021
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.85	57	7130166	12.546	ppbv	99
45) t-1,3-Dichloropropene	9.26	75	1399577	16.658	ppbv	100
46) cis-1,3-Dichloropropene	8.68	75	1756978	14.935	ppbv	99
47) 1,1,2-Trichloroethane	9.46	97	1842824	12.830	ppbv	99
48) Dibromochloromethane	10.28	129	3132569	14.497	ppbv	100
49) Bromoform	13.02	173	2671872	15.021	ppbv	100
50) 4-Methyl-2-Pentanone	8.72	43	3261767	15.660	ppbv	100
51) 2-Hexanone	10.11	43	1828133	20.598	ppbv #	99
52) Tetrachloroethene	11.20	164	1723528	14.668	ppbv	97
53) Toluene	9.78	91	5233237	16.411	ppbv	100
54) 1,2-Dibromoethane	10.59	107	2678516	14.282	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.10	131	2074059	8.835	ppbv #	61
57) Chlorobenzene	12.13	112	3791865	8.799	ppbv	99
58) Ethyl Benzene	12.69	91	6750723	11.123	ppbv	95
59) m/p-Xylene	12.97	91	6183598	10.841	ppbv #	44
60) o-Xylene	13.67	91	5238278	9.495	ppbv	100
61) Styrene	13.51	104	3350941	14.790	ppbv	99
62) Isopropylbenzene	14.64	105	7404884	9.842	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.65	83	3655174	7.012	ppbv	99
64) n-propylbenzene	15.54	120	2110902	11.337	ppbv	93
65) tert-Butylbenzene	16.73	119	6563535	9.837	ppbv	99
66) Benzyl Chloride	16.97	91	443339	7.299	ppbv	99
67) sec-Butylbenzene	17.27	105	9015997	9.564	ppbv	98
69) p-Isopropyltoluene	17.63	119	7881439	10.987	ppbv	98
70) n-Butylbenzene	18.53	91	7856531	10.925	ppbv	99
71) 2-Chlorotoluene	15.43	91	5616955	10.442	ppbv	99
72) 4-Ethyltoluene	15.82	105	6555876	11.469	ppbv	99
73) 1,3,5-Trimethylbenzene	15.98	105	5997411	10.738	ppbv	99
74) 1,2,4-Trimethylbenzene	16.74	105	6053400	9.871	ppbv	97
75) 1,3-Dichlorobenzene	16.98	146	3929934	9.885	ppbv	99
76) 1,4-Dichlorobenzene	17.12	146	3843444	10.820	ppbv	99
77) 1,2-Dichlorobenzene	17.80	146	3840254	10.669	ppbv	100
78) Hexachloro-1,3-Butadiene	23.36	225	2805758	8.728	ppbv	99
79) Naphthalene	22.17	128	6128896	22.126	ppbv	98
80) Naphthalene, 2-methyl-	24.96	142	1614026	39.758	ppbv	95
81) 1,2,4-Trichlorobenzene	21.90	180	3423731	17.271	ppbv	97

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. 0.00 min

Lab File: VL036956.D

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ClientSampleId :

VSTDIC015

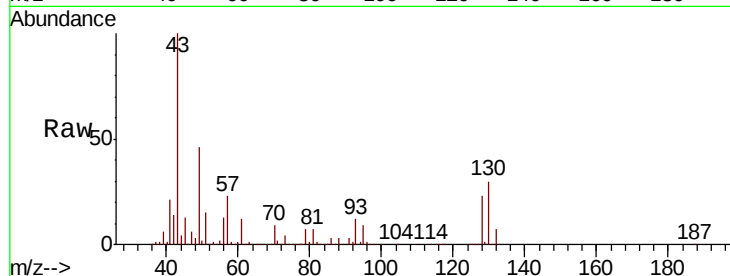
Tot Ion: 49 Resp: 1327149

Ion Ratio Lower Upper

49 100

128 55.9 26.9 80.7

130 67.8 33.8 101.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

800000

600000

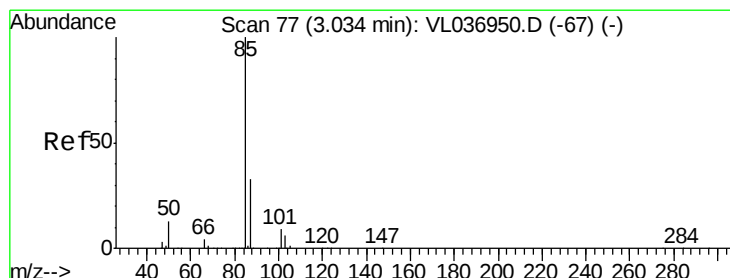
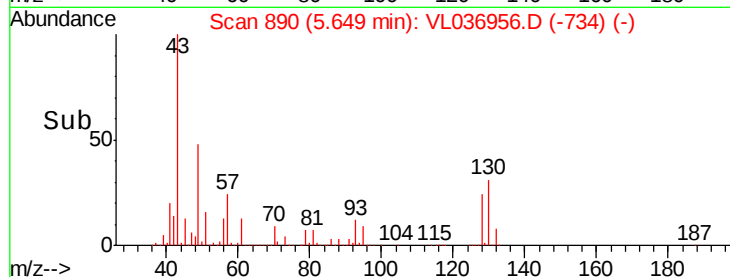
400000

200000

0

5.55 5.60 5.65 5.70

Time-->



#2

Dichlorodifluoromethane

Concen: 10.276 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.00 min

Lab File: VL036956.D

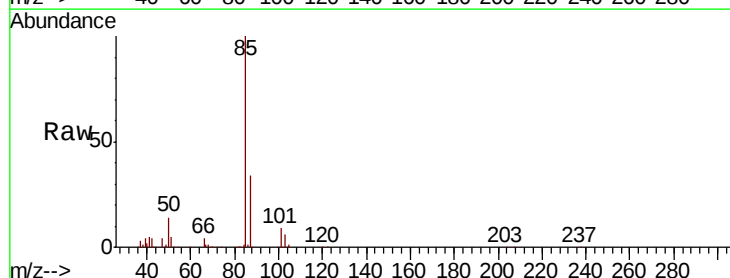
Acq: 18 May 2021 5:47

Tgt Ion: 85 Resp: 2326217

Ion Ratio Lower Upper

85 100

87 33.6 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

1500000

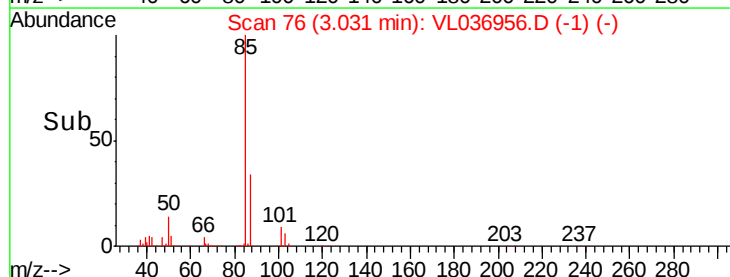
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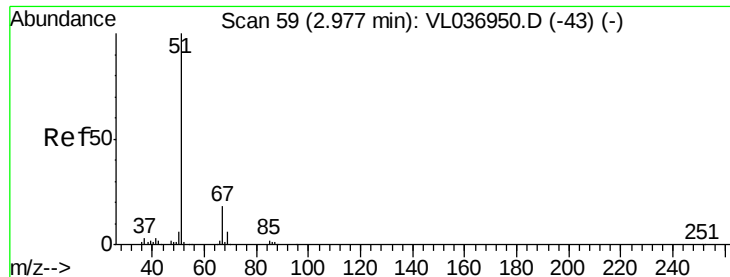
500000

0

2.95 3.00 3.05 3.10 3.15

Time-->





#3

Chlorodifluoromethane

Concen: 12.199 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

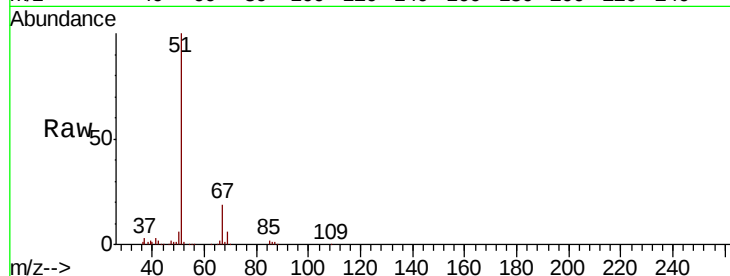
VSTDIC015

Tot Ion: 51 Resp: 3182006

Ion Ratio Lower Upper

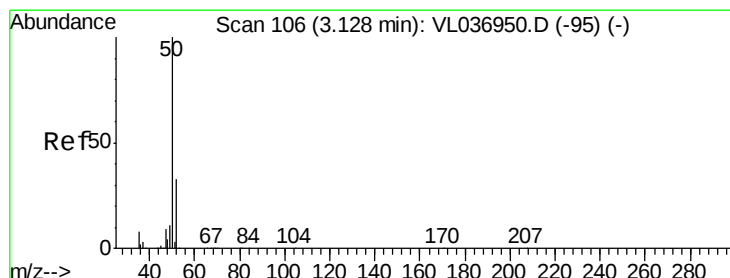
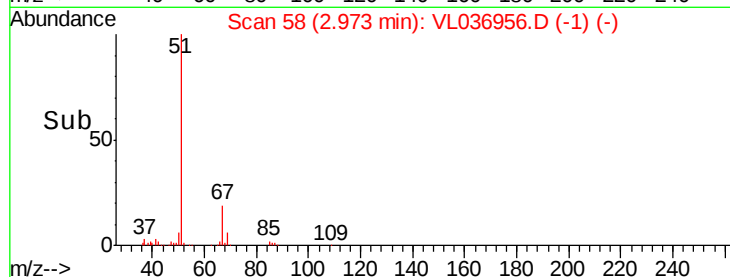
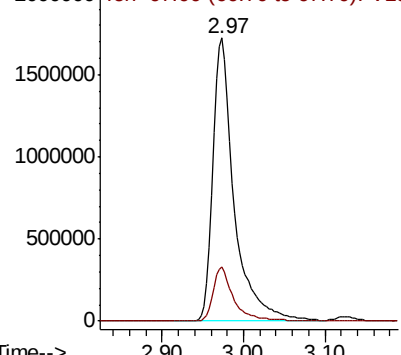
51 100

67 18.5 14.6 21.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 13.371 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.00 min

Lab File: VL036956.D

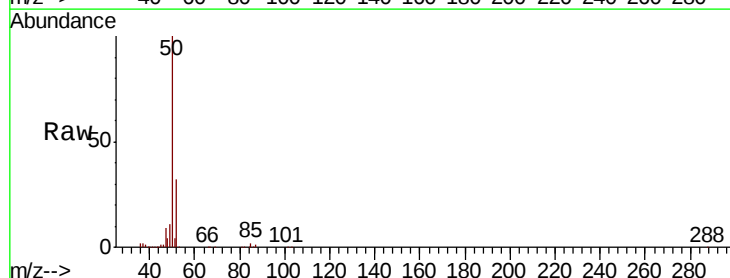
Acq: 18 May 2021 5:47

Tgt Ion: 50 Resp: 1139386

Ion Ratio Lower Upper

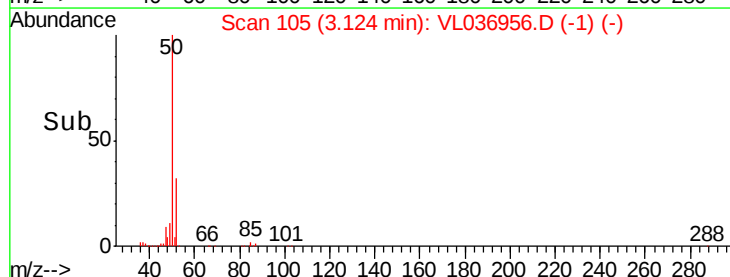
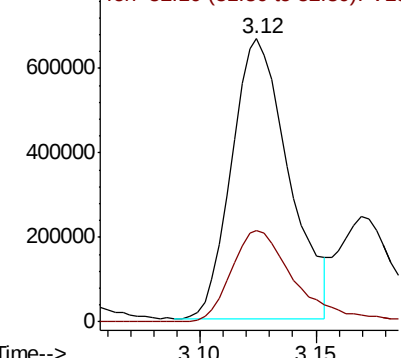
50 100

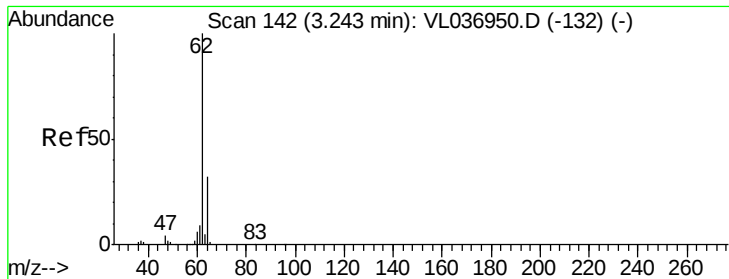
52 32.5 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 13.214 ppbv

RT: 3.24 min Scan# 141

Delta R.T. -0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

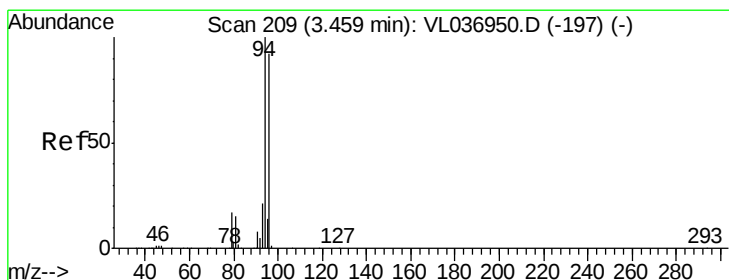
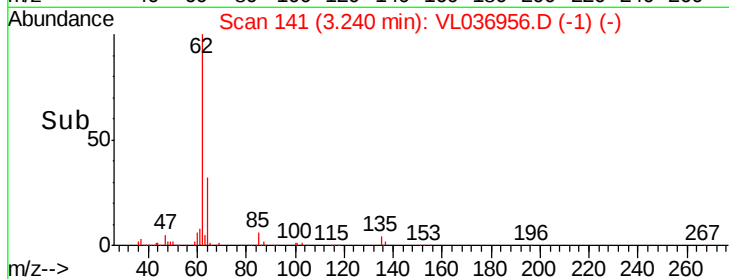
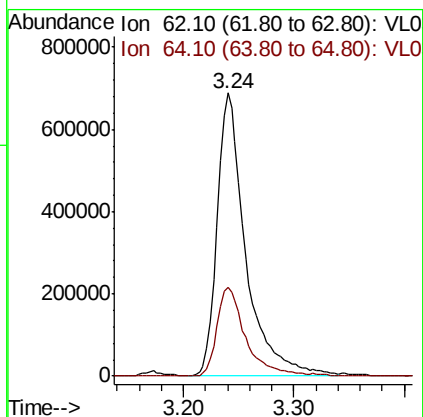
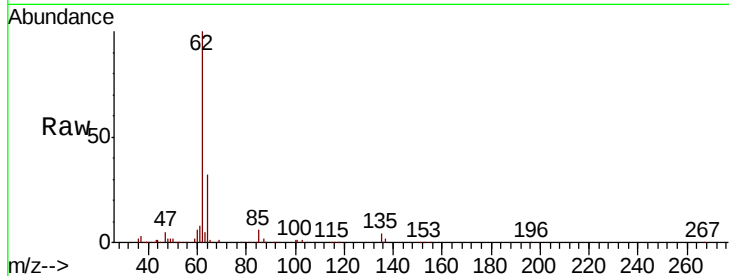
VSTDIC015

Tot Ion: 62 Resp: 1227384

Ion Ratio Lower Upper

62 100

64 31.6 25.9 38.9



#6

Bromomethane

Concen: 13.709 ppbv

RT: 3.46 min Scan# 208

Delta R.T. -0.00 min

Lab File: VL036956.D

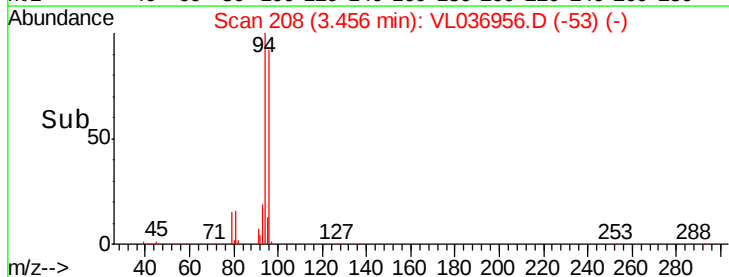
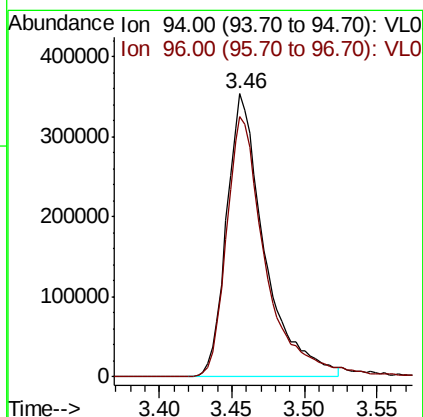
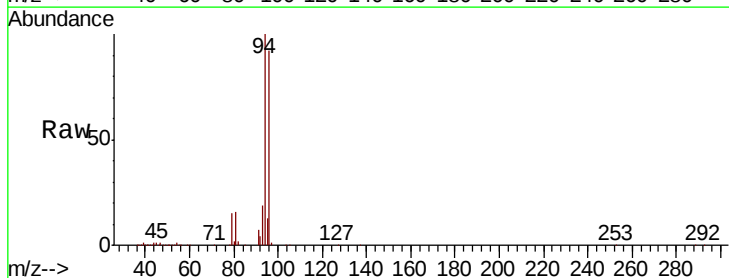
Acq: 18 May 2021 5:47

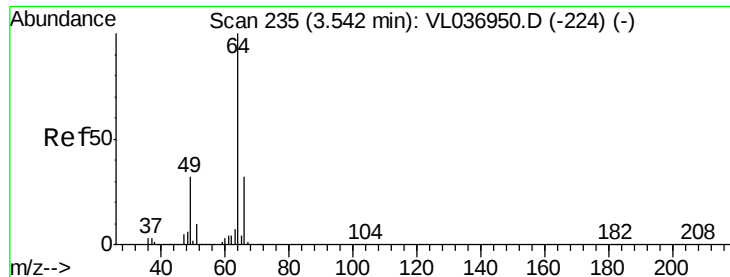
Tgt Ion: 94 Resp: 642369

Ion Ratio Lower Upper

94 100

96 92.0 74.0 111.0





#7

Chloroethane

Concen: 14.629 ppbv

RT: 3.54 min Scan# 234

Delta R.T. -0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

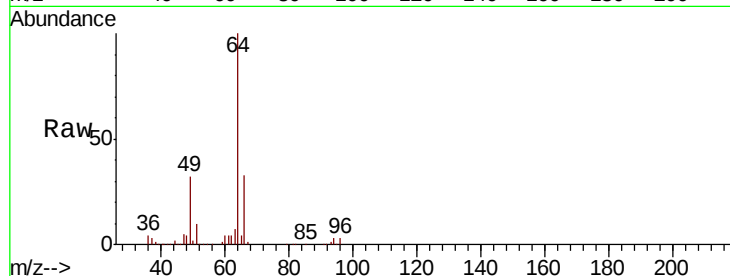
VSTDIC015

Tot Ion: 64 Resp: 437497

Ion Ratio Lower Upper

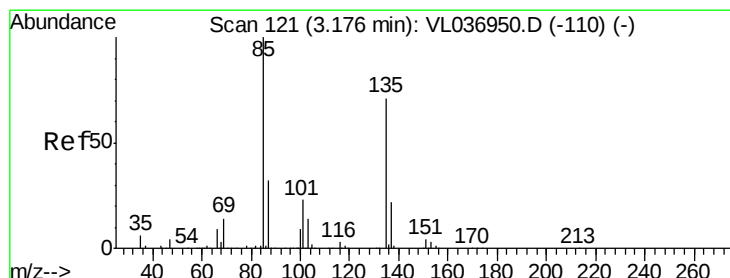
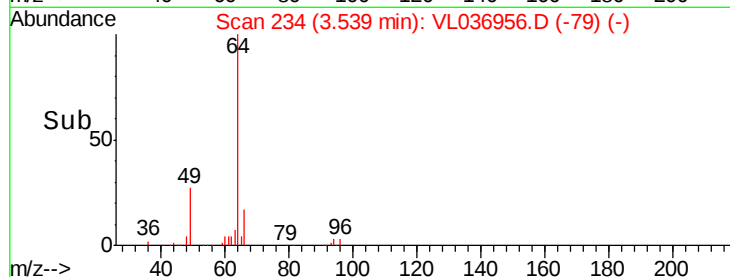
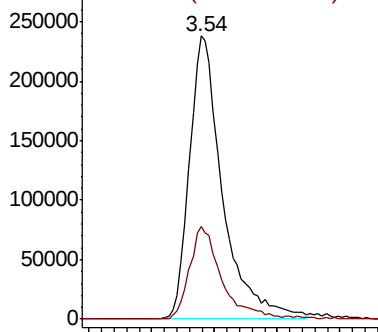
64 100

66 32.7 25.4 38.2



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 12.691 ppbv

RT: 3.17 min Scan# 120

Delta R.T. -0.00 min

Lab File: VL036956.D

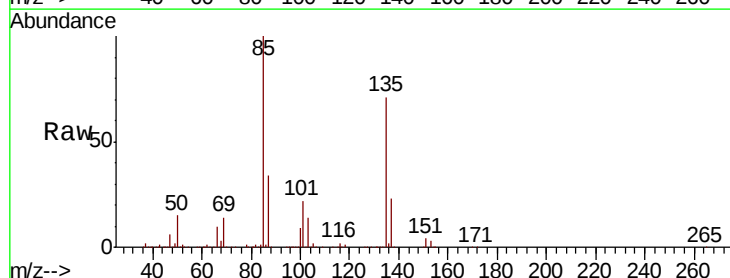
Acq: 18 May 2021 5:47

Tgt Ion: 85 Resp: 2709741

Ion Ratio Lower Upper

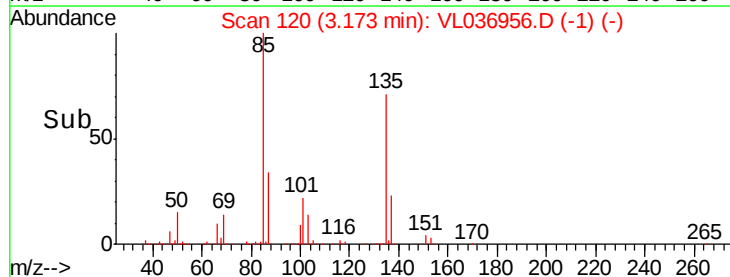
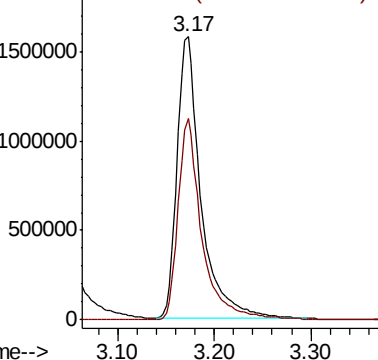
85 100

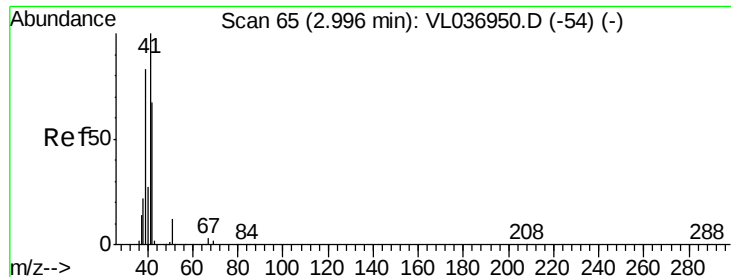
135 71.7 57.7 86.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 15.733 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.00 min

Lab File: VL036956.D

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ClientSampleId :

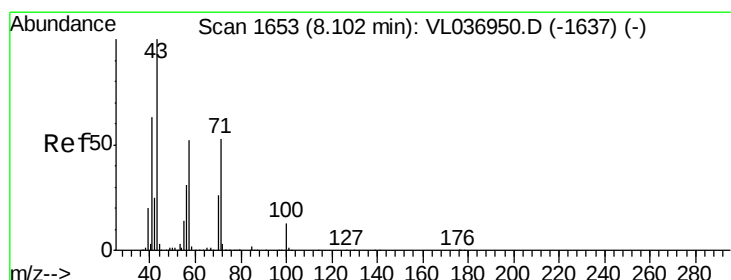
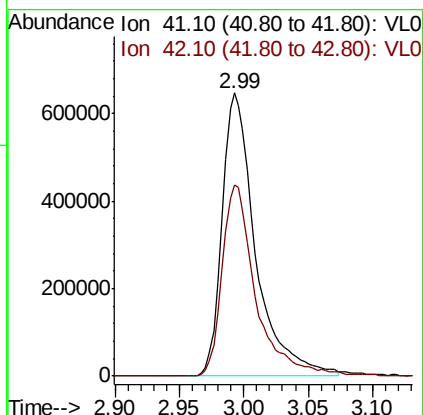
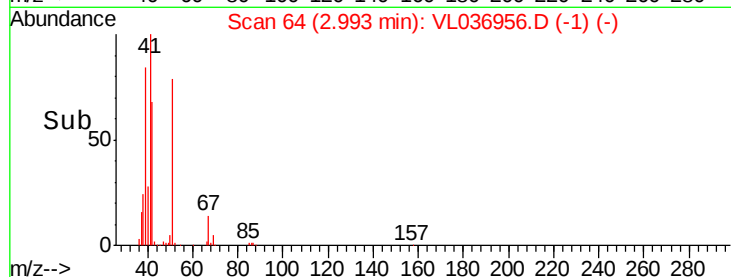
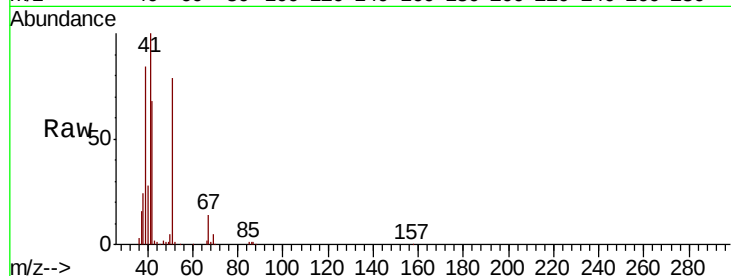
VSTDIC015

Tot Ion: 41 Resp: 1170100

Ion Ratio Lower Upper

41 100

42 68.2 53.9 80.9



#10

Heptane

Concen: 16.192 ppbv

RT: 8.10 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VL036956.D

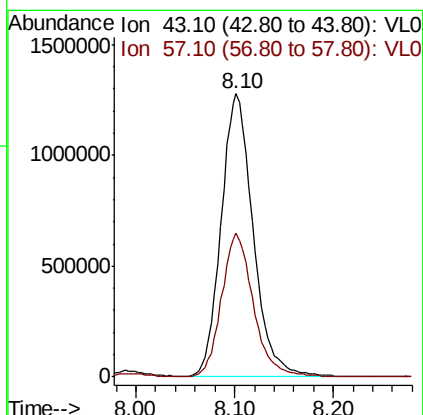
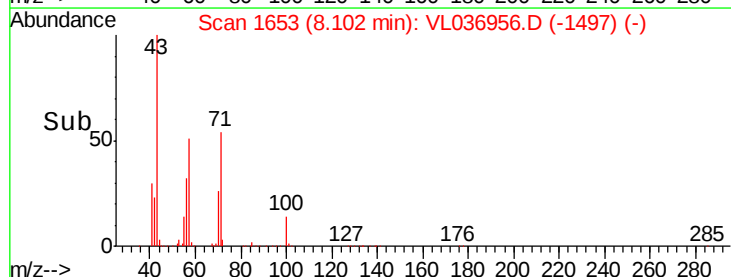
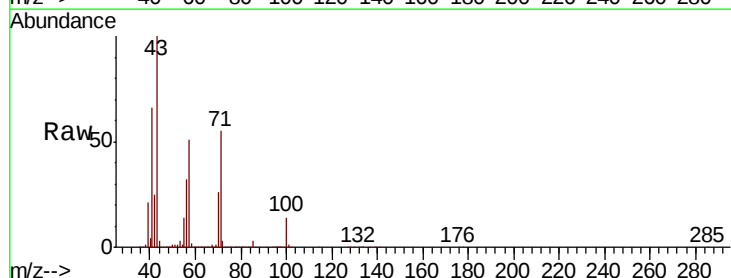
Acq: 18 May 2021 5:47

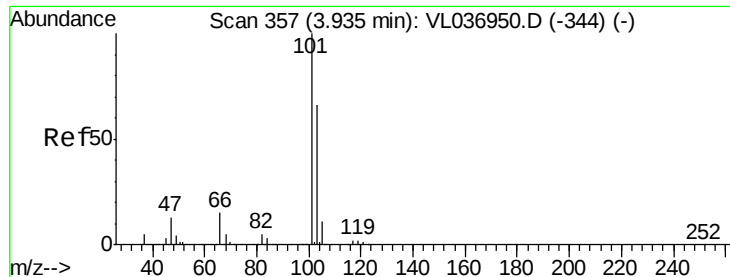
Tgt Ion: 43 Resp: 2866263

Ion Ratio Lower Upper

43 100

57 51.1 41.0 61.6

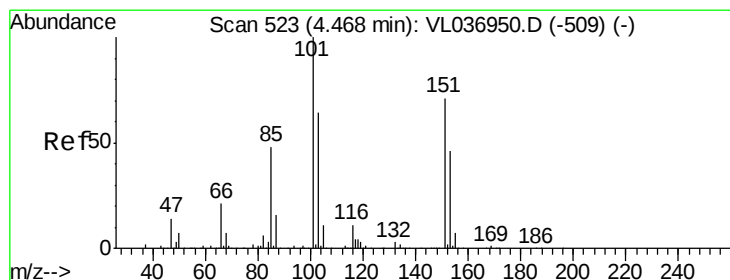
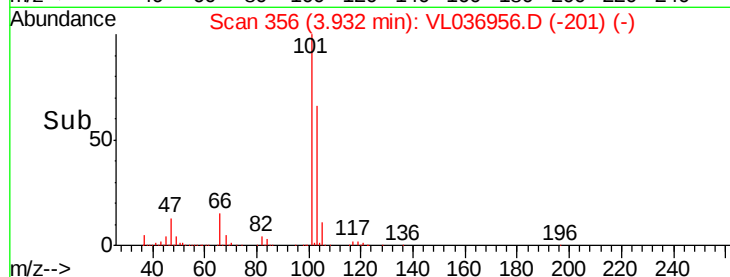
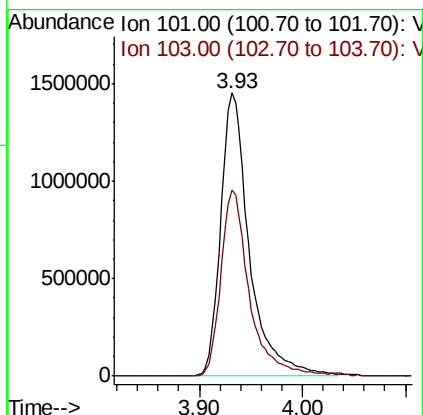
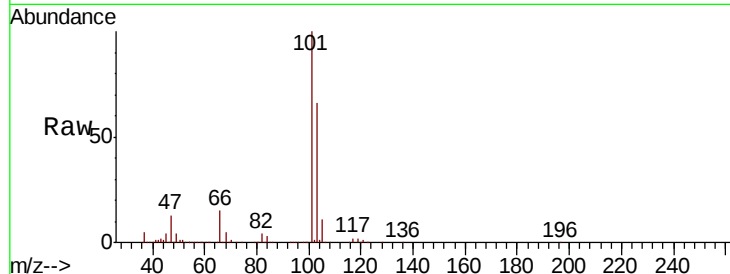




#11
 Trichlorofluoromethane
 Concen: 13.839 ppbv
 RT: 3.93 min Scan# 356
 Delta R.T. -0.00 min
 Lab File: VL036956.D
 Acq: 18 May 2021 5:47

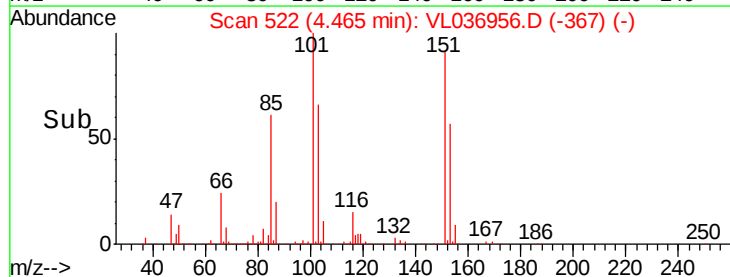
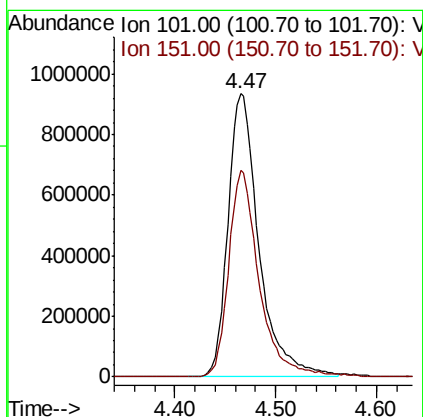
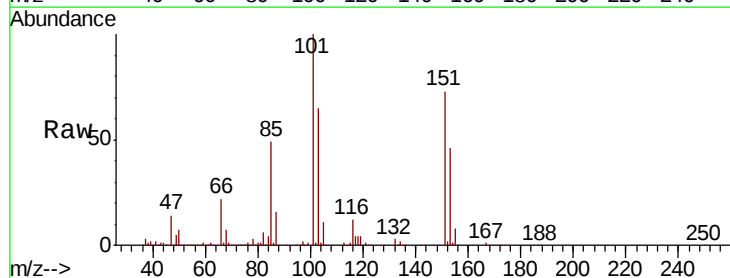
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

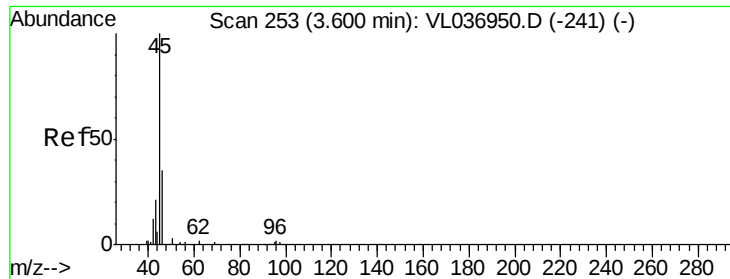
Tot Ion:101 Resp: 2820143
 Ion Ratio Lower Upper
 101 100
 103 65.5 52.6 79.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 14.551 ppbv
 RT: 4.47 min Scan# 522
 Delta R.T. -0.00 min
 Lab File: VL036956.D
 Acq: 18 May 2021 5:47

Tgt Ion:101 Resp: 2003046
 Ion Ratio Lower Upper
 101 100
 151 72.3 57.7 86.5





#13

Ethanol

Concen: 7.636 ppbv

RT: 3.59 min Scan# 251

Delta R.T. -0.01 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

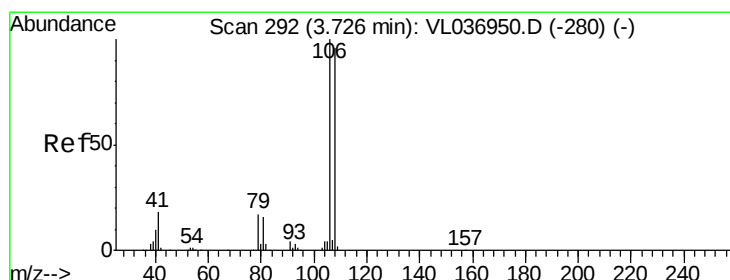
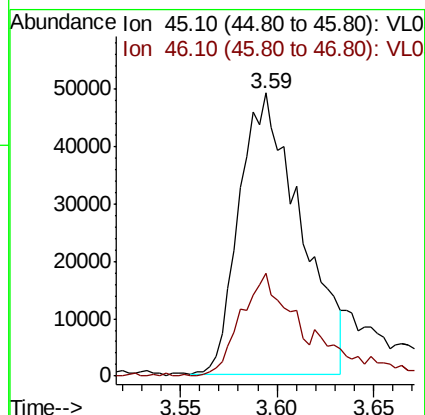
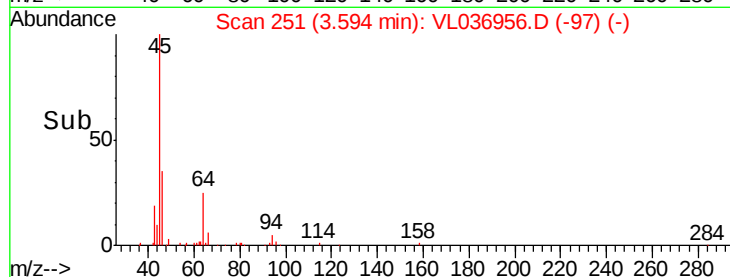
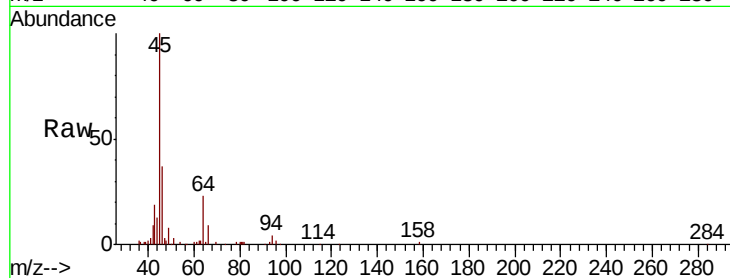
VSTDIC015

Tot Ion: 45 Resp: 107790

Ion Ratio Lower Upper

45 100

46 43.0 16.3 65.3



#14

Bromoethene

Concen: 16.174 ppbv

RT: 3.72 min Scan# 291

Delta R.T. -0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

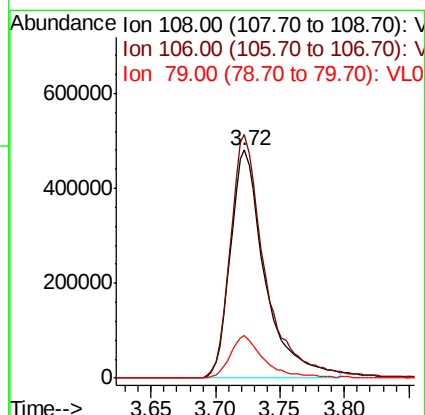
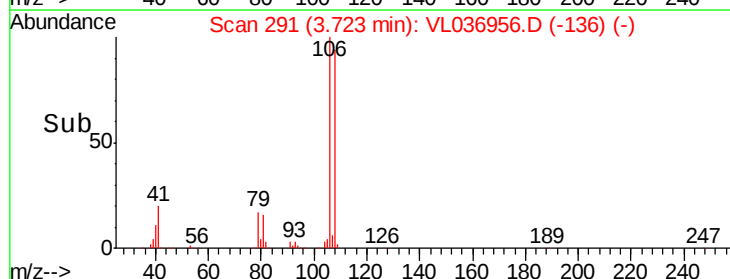
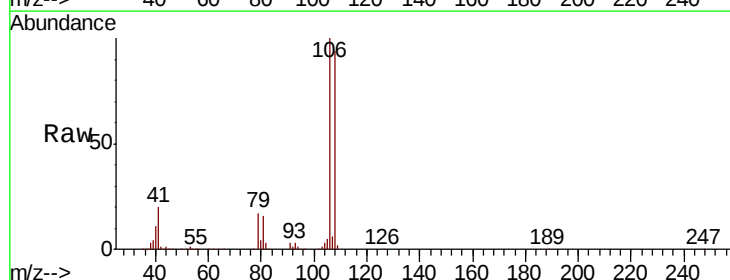
Tgt Ion: 108 Resp: 893262

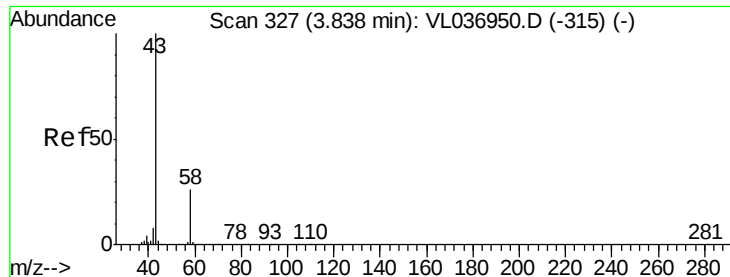
Ion Ratio Lower Upper

108 100

106 109.1 86.5 129.7

79 18.7 15.0 22.4





#15

Acetone

Concen: 12.063 ppbv

RT: 3.83 min Scan# 325

Delta R.T. -0.01 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

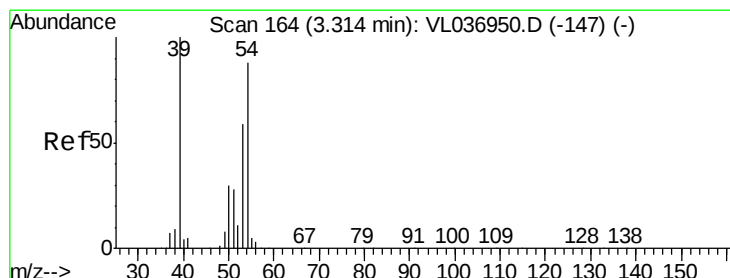
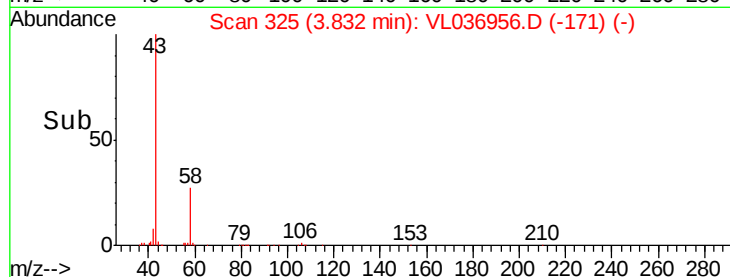
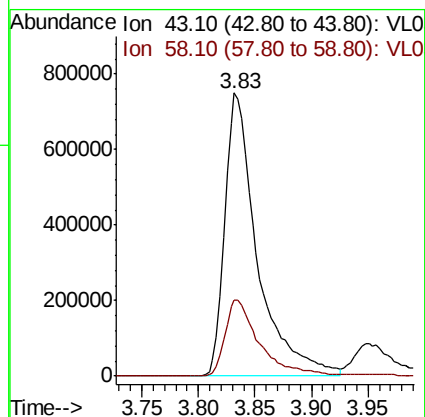
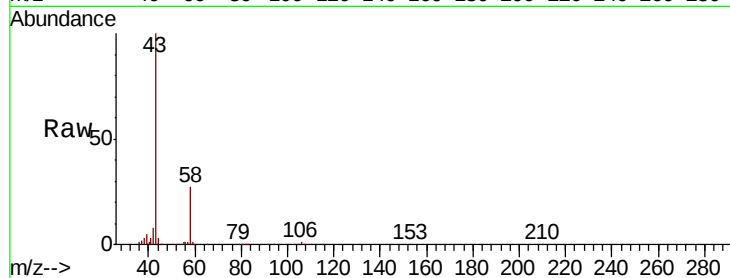
VSTDIC015

Tot Ion: 43 Resp: 1503596

Ion Ratio Lower Upper

43 100

58 29.4 24.0 36.0



#16

1,3-Butadiene

Concen: 14.596 ppbv

RT: 3.31 min Scan# 163

Delta R.T. -0.00 min

Lab File: VL036956.D

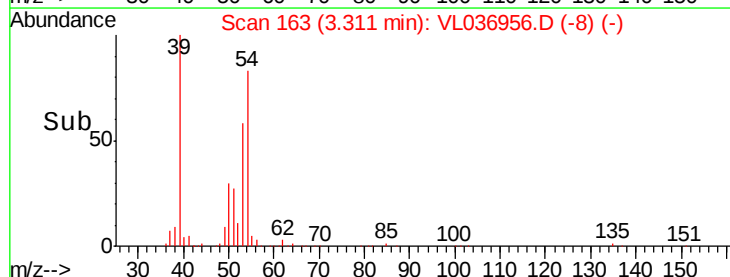
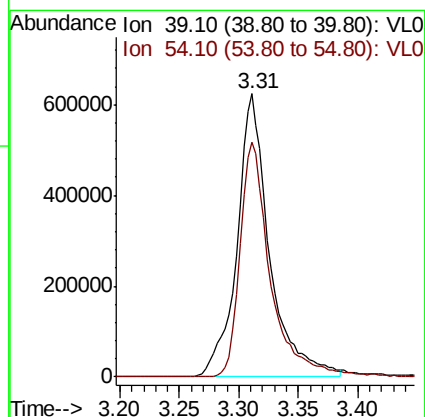
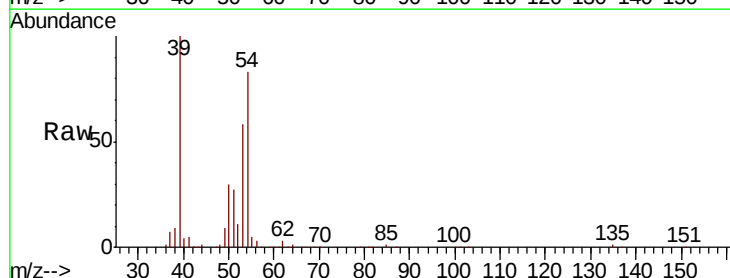
Acq: 18 May 2021 5:47

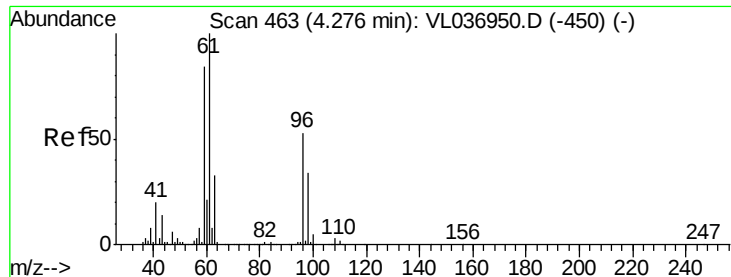
Tgt Ion: 39 Resp: 1176894

Ion Ratio Lower Upper

39 100

54 78.7 63.2 94.8





#17

tert-Butyl alcohol
 Concen: 12.626 ppbv
 RT: 4.28 min Scan# 463
 Delta R.T. 0.00 min
 Lab File: VL036956.D
 Acq: 18 May 2021 5:47

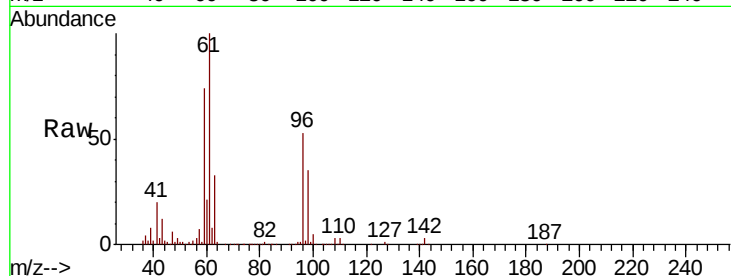
Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDIC015

Tot Ion: 59 Resp: 1454435

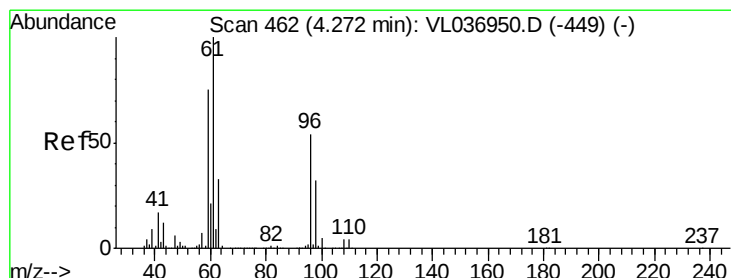
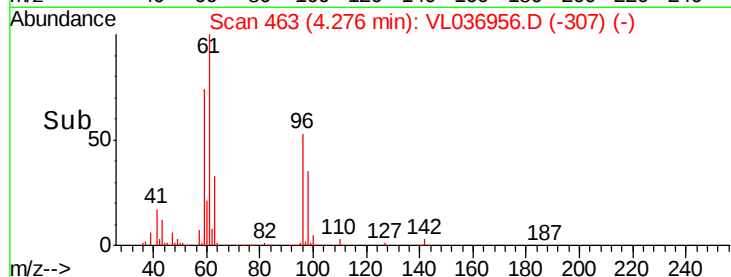
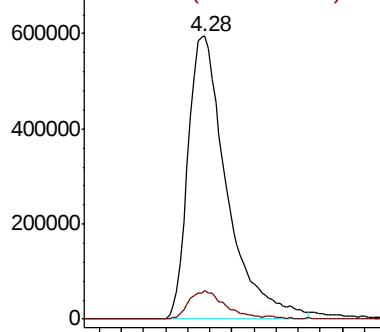
Ion Ratio Lower Upper

59 100

57 10.3 8.3 12.5



Abundance Ion 59.10 (58.80 to 59.80): VL0
 Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene
 Concen: 16.330 ppbv
 RT: 4.27 min Scan# 461
 Delta R.T. -0.00 min
 Lab File: VL036956.D
 Acq: 18 May 2021 5:47

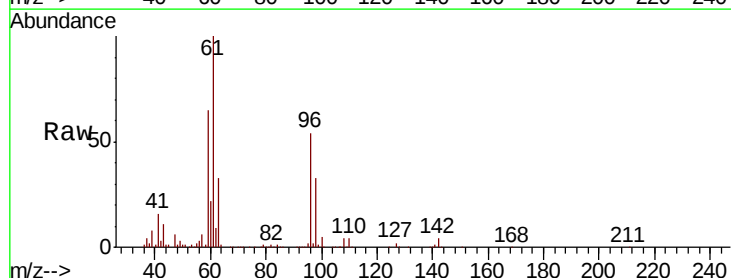
Tgt Ion: 96 Resp: 923806

Ion Ratio Lower Upper

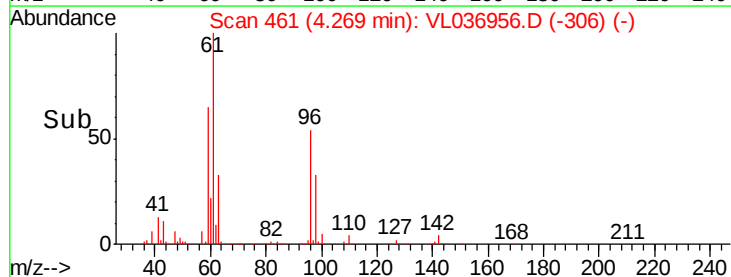
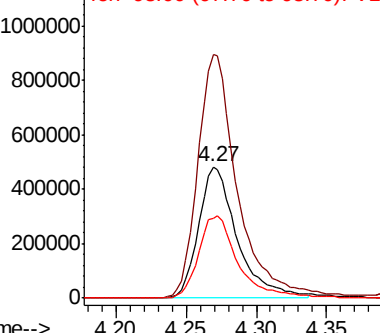
96 100

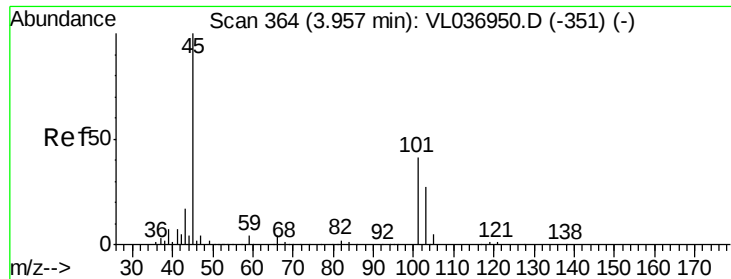
61 185.3 148.2 222.4

98 61.2 47.8 71.6



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





#19

Isopropyl Alcohol

Concen: 11.255 ppbv

RT: 3.95 min Scan# 362

Delta R.T. -0.01 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

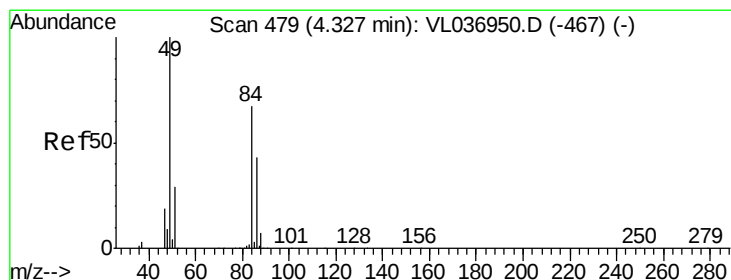
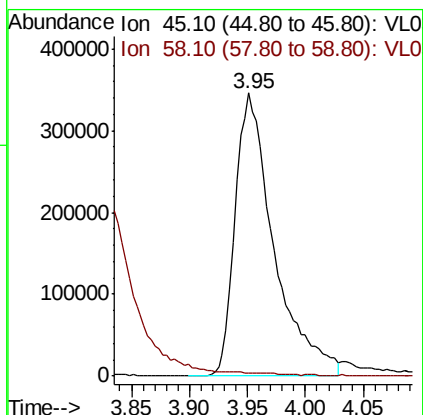
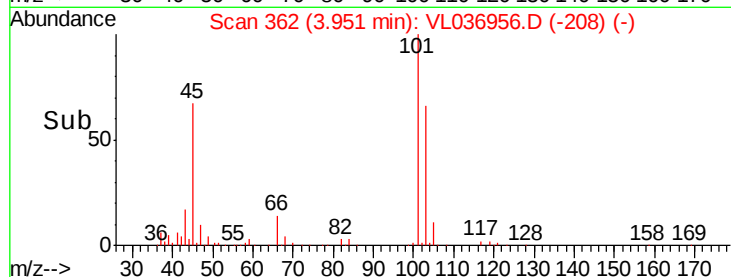
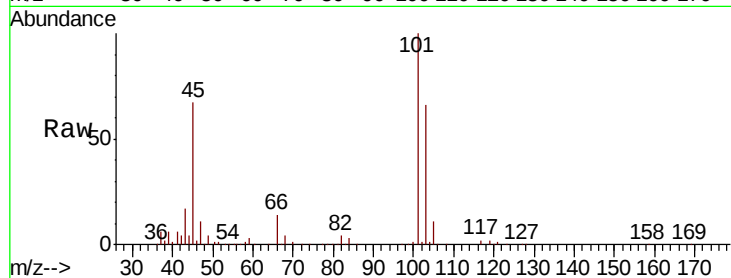
VSTDIC015

Tot Ion: 45 Resp: 799189

Ion Ratio Lower Upper

45 100

58 56.1 37.2 55.8#



#20

Methylene Chloride

Concen: 7.714 ppbv

RT: 4.33 min Scan# 479

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Tgt Ion: 84 Resp: 785030

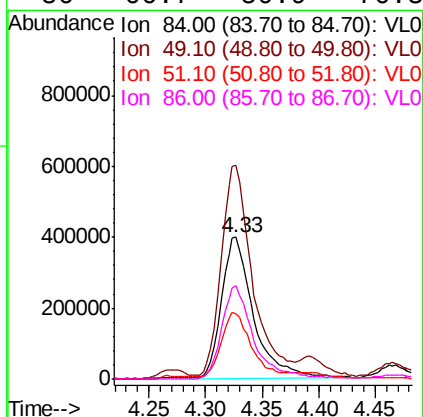
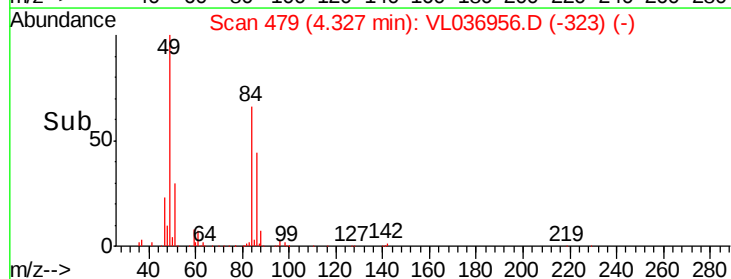
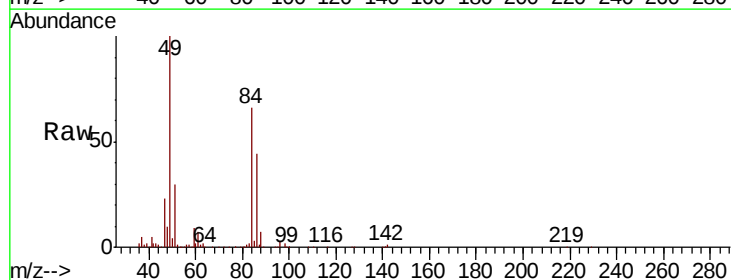
Ion Ratio Lower Upper

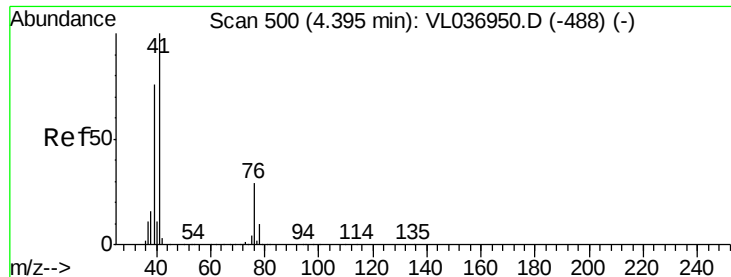
84 100

49 148.8 119.8 179.6

51 44.7 35.1 52.7

86 66.7 50.9 76.3

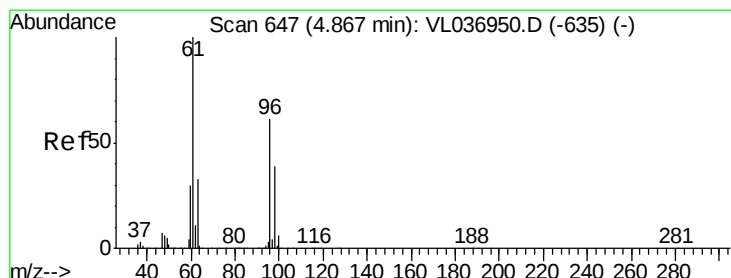
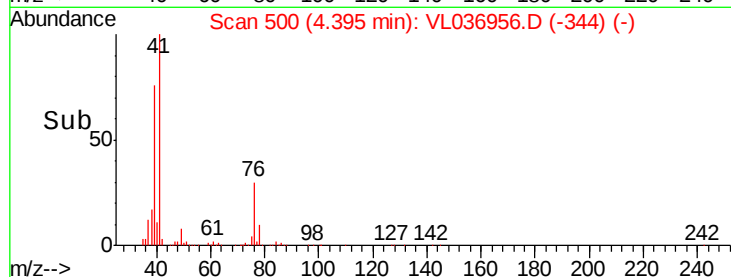
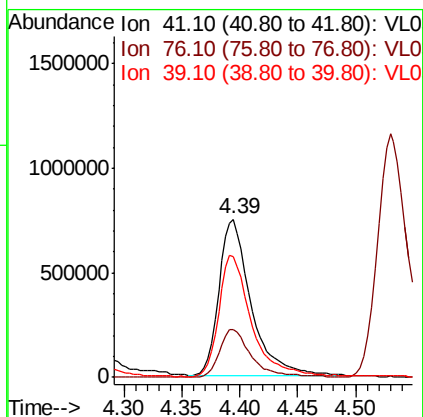
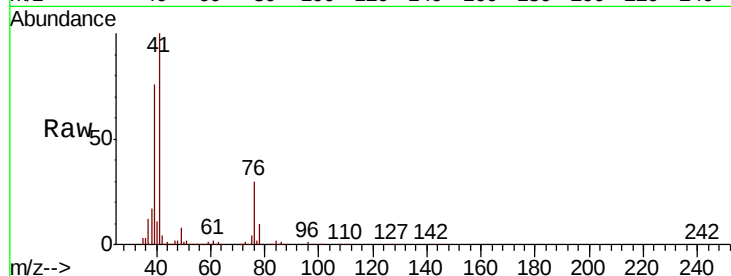




#21
Allvl Chloride
Concen: 15.627 ppbv
RT: 4.39 min Scan# 500
Delta R.T. 0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

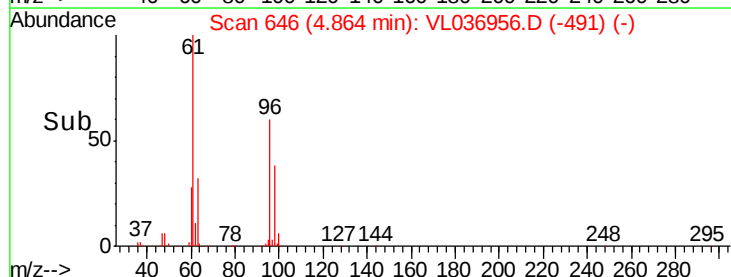
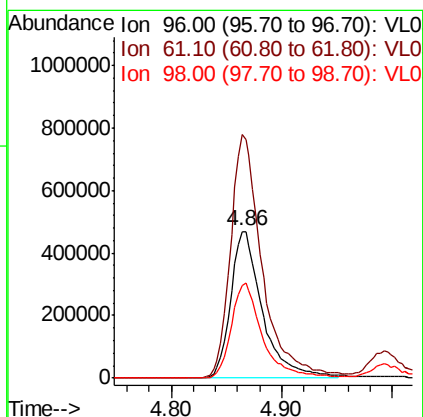
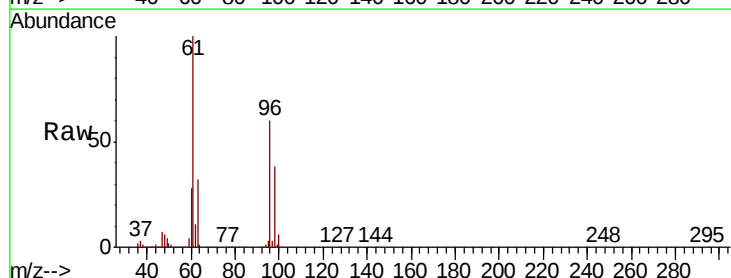
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

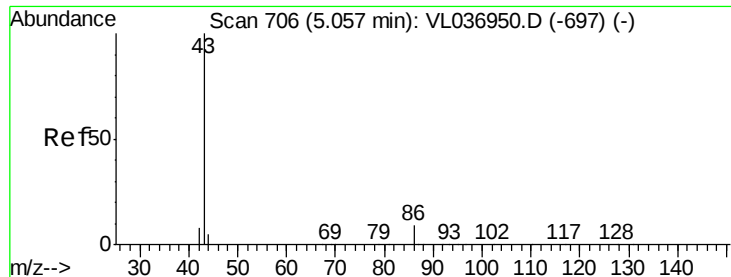
Tot Ion: 41 Resp: 1433992
Ion Ratio Lower Upper
41 100
76 30.7 24.9 37.3
39 79.2 63.7 95.5



#22
trans-1,2-Dichloroethene
Concen: 16.123 ppbv
RT: 4.86 min Scan# 646
Delta R.T. -0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

Tgt Ion: 96 Resp: 935661
Ion Ratio Lower Upper
96 100
61 166.0 130.6 196.0
98 63.2 50.8 76.2





#23

Vinyl Acetate

Concen: 17.522 ppbv

RT: 5.06 min Scan# 706

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

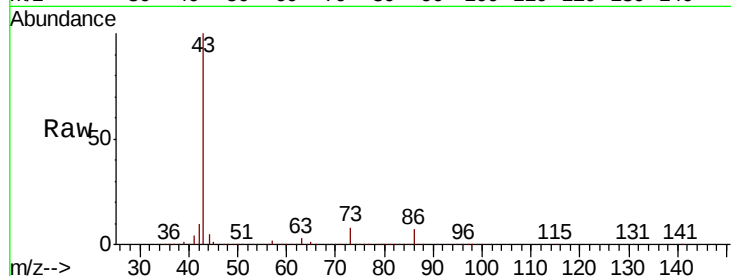
MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 3105811

Ion	Ratio	Lower	Upper
43	100		
86	7.2	5.8	8.8
42	9.6	7.4	11.2
44	4.6	3.3	4.9

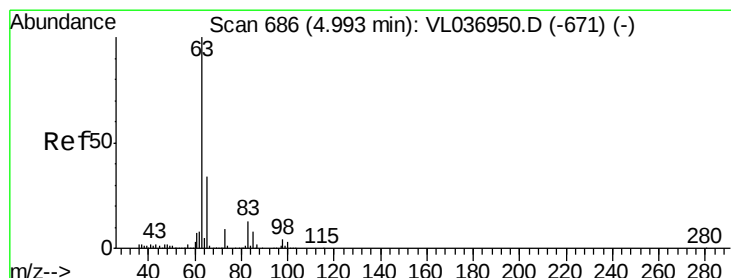
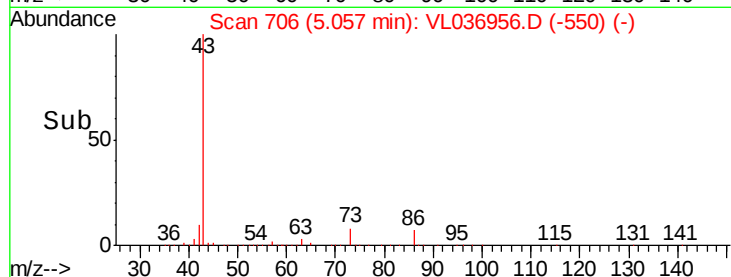


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 14.880 ppbv

RT: 4.99 min Scan# 686

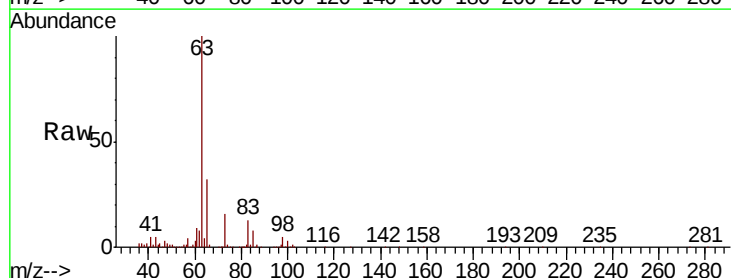
Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Tgt Ion: 63 Resp: 2004154

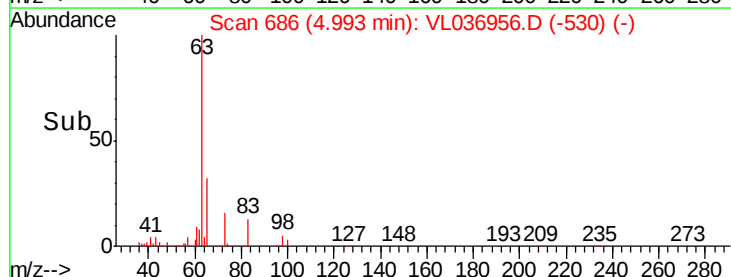
Ion	Ratio	Lower	Upper
63	100		
98	4.5	2.3	6.9
100	3.0	1.4	4.0

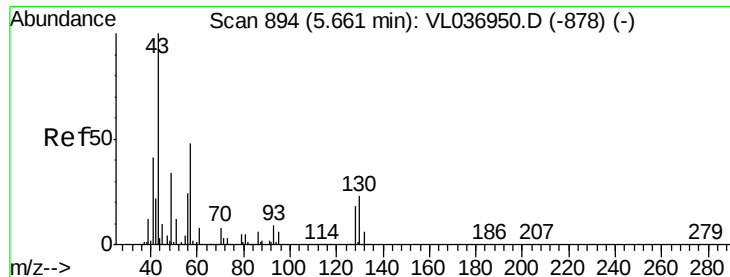


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



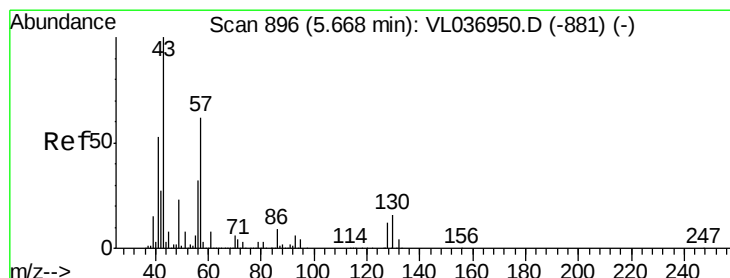
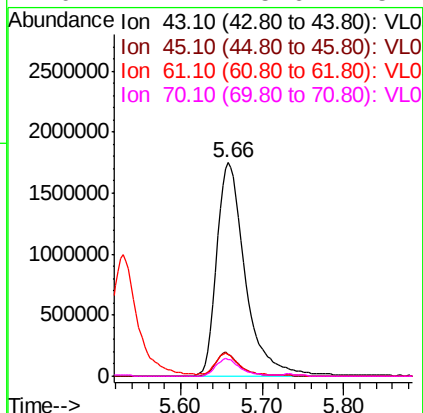
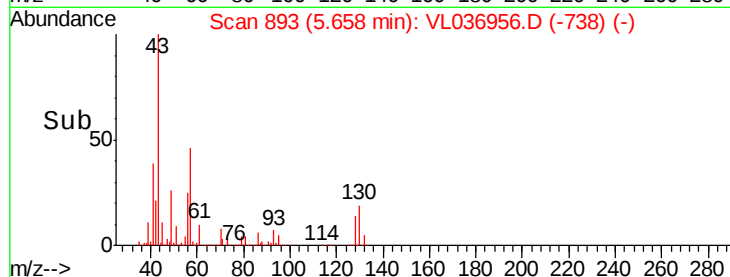
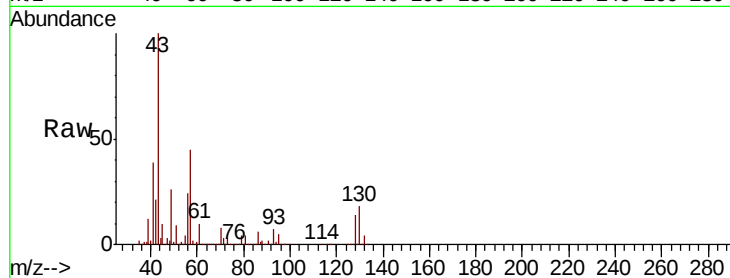


#25
Ethyl Acetate
Concen: 14.036 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 4322121

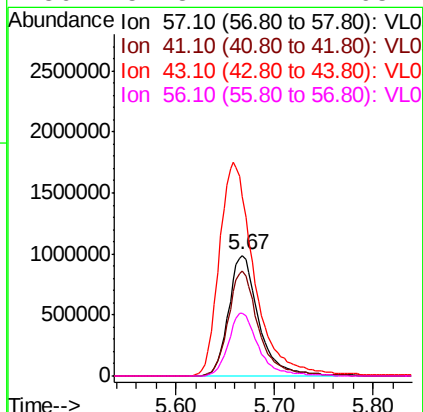
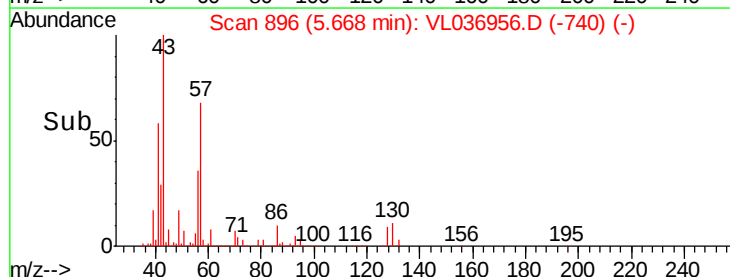
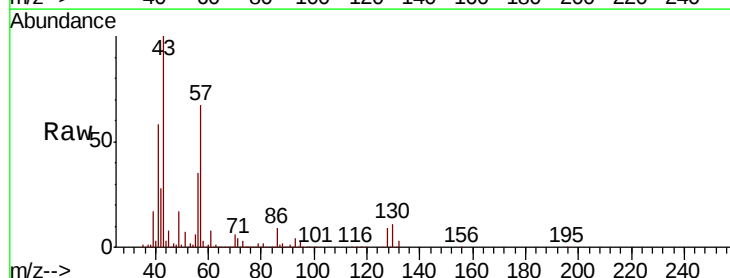
Ion	Ratio	Lower	Upper
43	100		
45	9.9	7.8	11.8
61	9.9	7.8	11.8
70	7.2	5.6	8.4

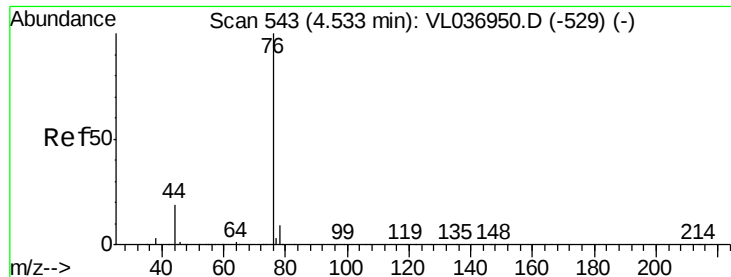


#26
Hexane
Concen: 13.338 ppbv
RT: 5.67 min Scan# 896
Delta R.T. 0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

Tgt Ion: 57 Resp: 2109389

Ion	Ratio	Lower	Upper
57	100		
41	88.3	70.5	105.7
43	206.1	165.8	248.8
56	52.8	42.2	63.4





#27

Carbon Disulfide

Concen: 16.826 ppbv

RT: 4.53 min Scan# 542

Delta R.T. -0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

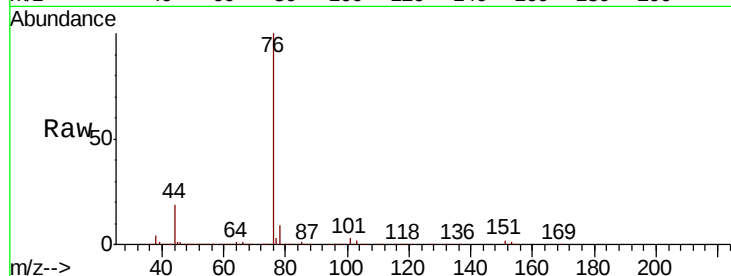
Tot Ion: 76 Resp: 2356111

Ion Ratio Lower Upper

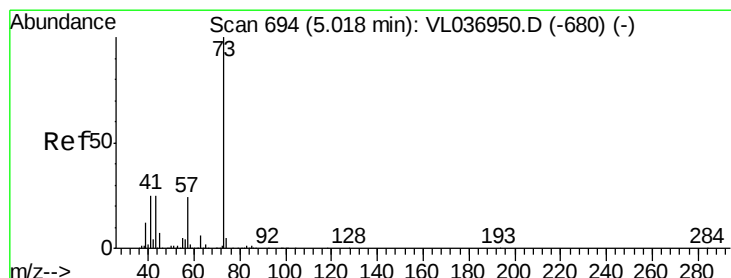
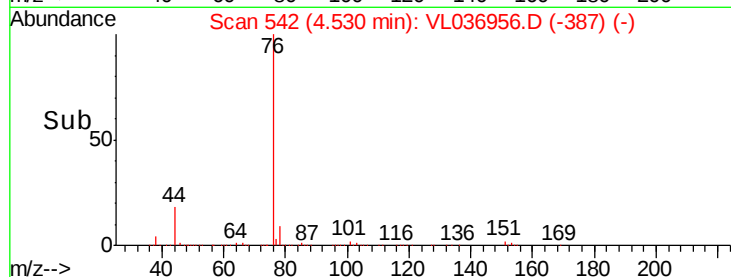
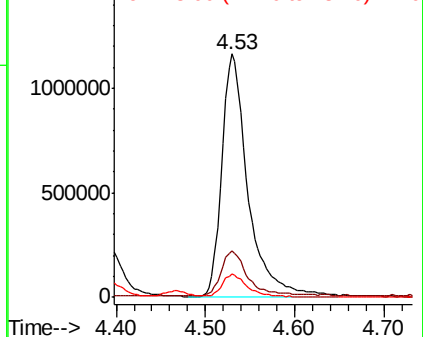
76 100

44 19.4 15.5 23.3

78 9.9 7.8 11.6



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: 16.794 ppbv

RT: 5.02 min Scan# 693

Delta R.T. -0.00 min

Lab File: VL036956.D

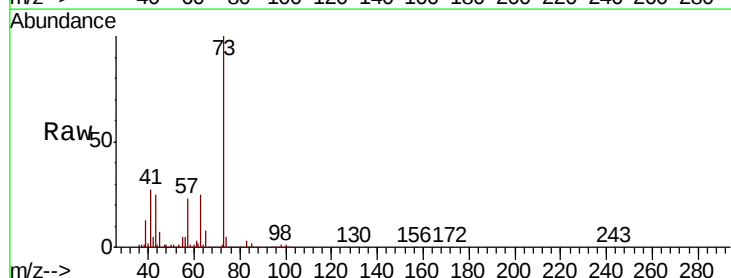
Acq: 18 May 2021 5:47

Tgt Ion: 73 Resp: 2566179

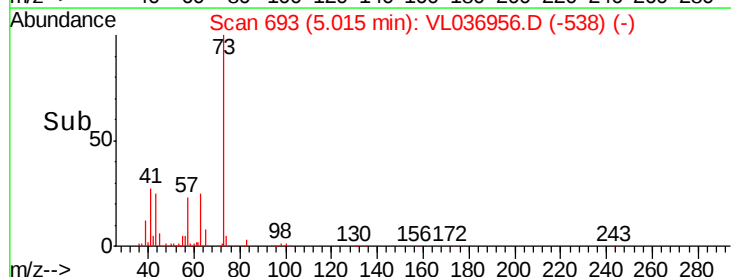
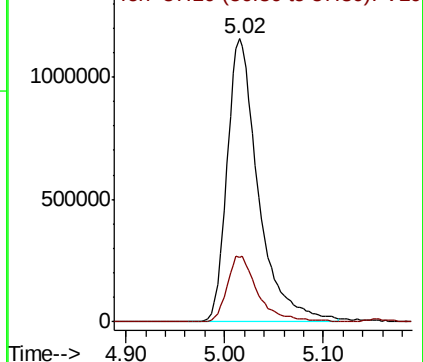
Ion Ratio Lower Upper

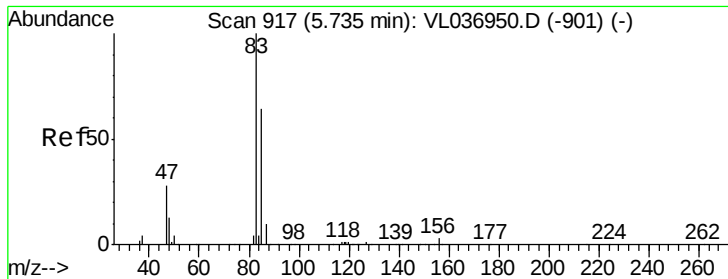
73 100

57 23.0 18.3 27.5



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 13.295 ppbv

RT: 5.73 min Scan# 916

Delta R.T. -0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

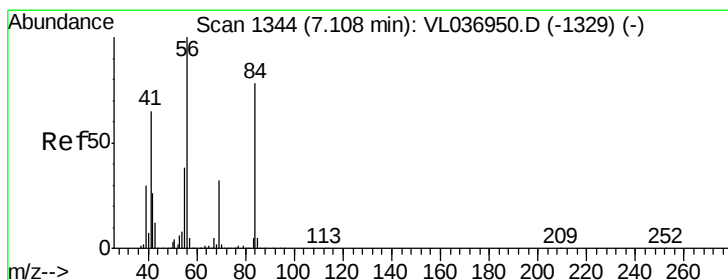
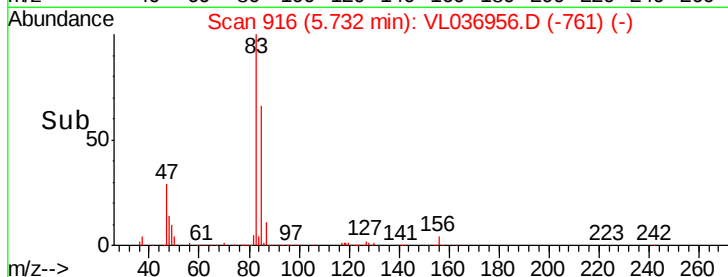
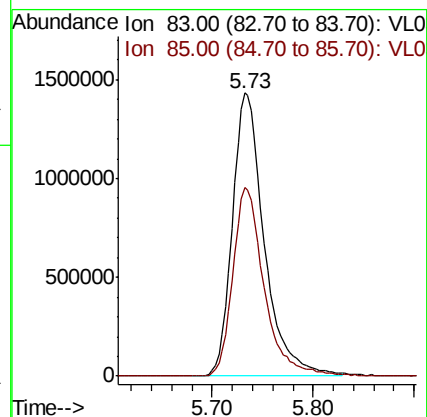
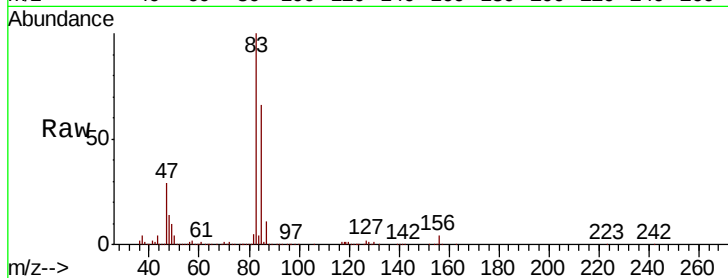
VSTDIC015

Tot Ion: 83 Resp: 3154562

Ion Ratio Lower Upper

83 100

85 66.2 51.1 76.7



#30

Cyclohexane

Concen: 15.630 ppbv

RT: 7.11 min Scan# 1343

Delta R.T. -0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

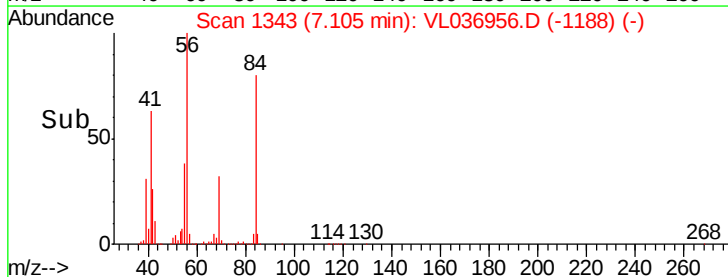
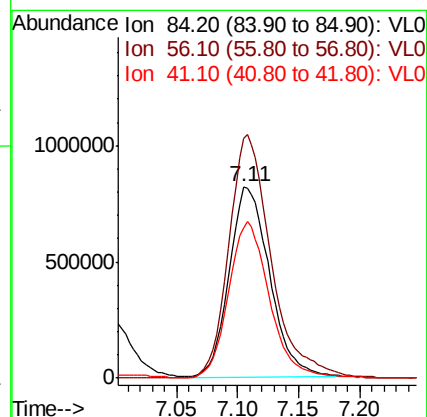
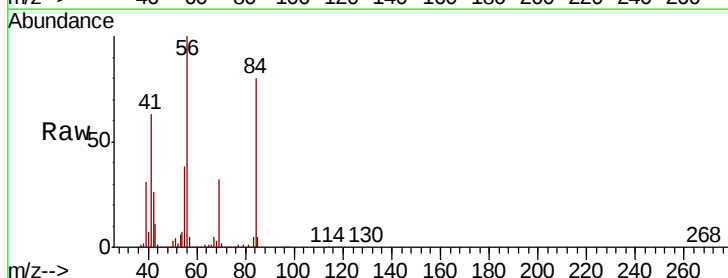
Tgt Ion: 84 Resp: 1890673

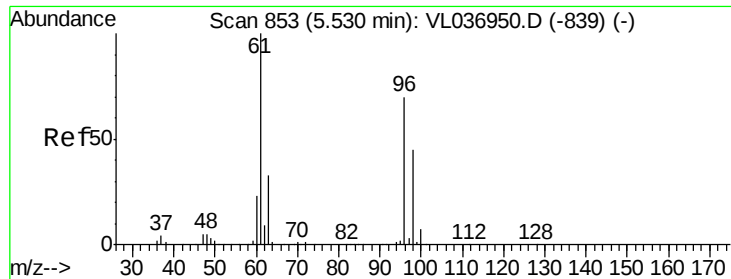
Ion Ratio Lower Upper

84 100

56 134.2 107.9 161.9

41 83.6 65.5 98.3



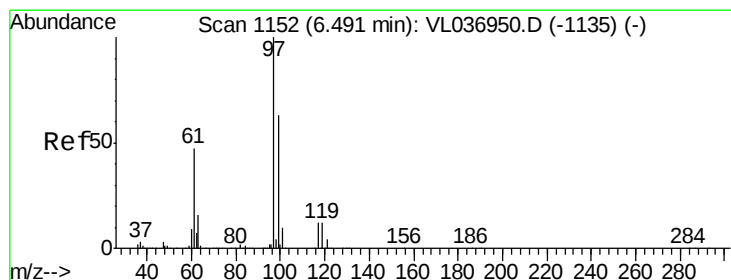
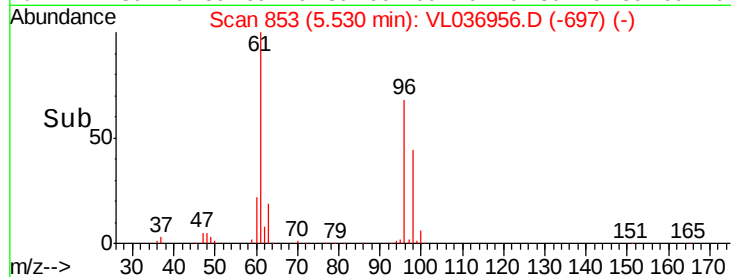
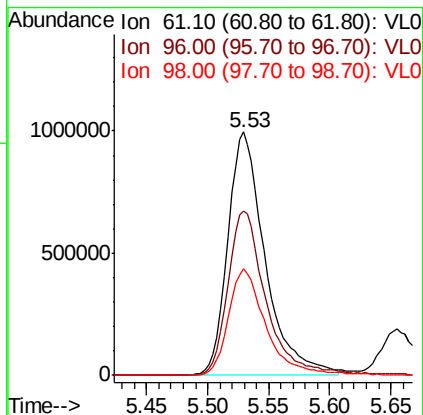
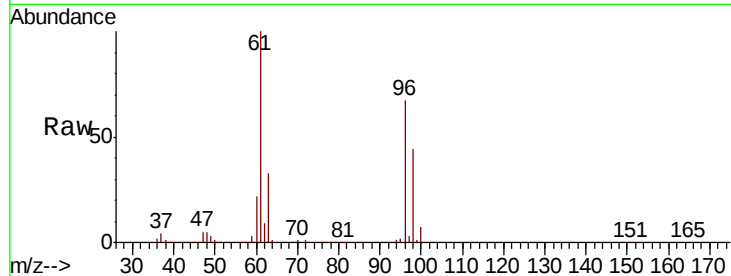


#31

cis-1,2-Dichloroethene
 Concen: 17.052 ppbv
 RT: 5.53 min Scan# 853
 Delta R.T. 0.00 min
 Lab File: VL036956.D
 Acq: 18 May 2021 5:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

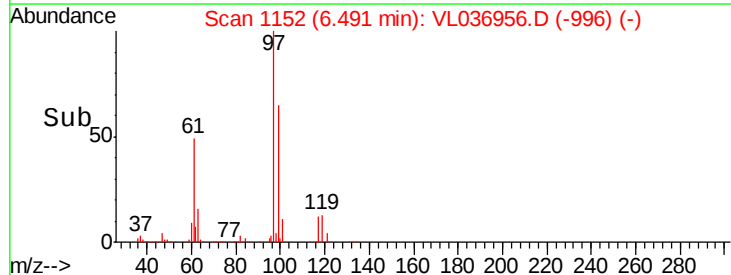
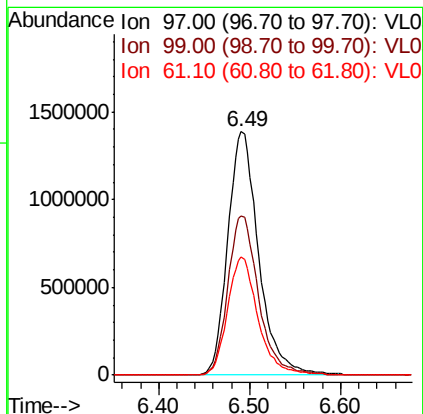
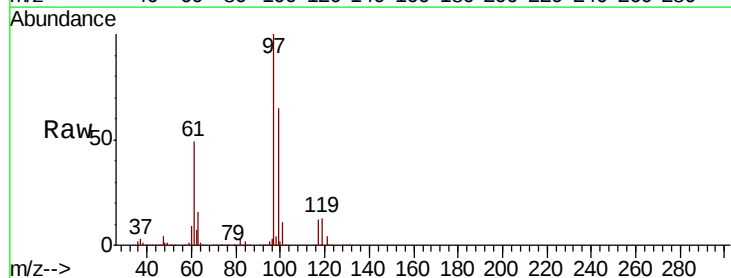
Tot Ion: 61 Resp: 2112604
 Ion Ratio Lower Upper
 61 100
 96 67.5 55.9 83.9
 98 43.8 35.6 53.4

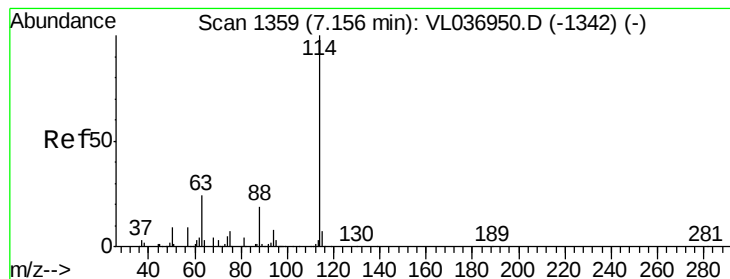


#32

1,1,1-Trichloroethane
 Concen: 12.948 ppbv
 RT: 6.49 min Scan# 1152
 Delta R.T. 0.00 min
 Lab File: VL036956.D
 Acq: 18 May 2021 5:47

Tgt Ion: 97 Resp: 3274872
 Ion Ratio Lower Upper
 97 100
 99 65.6 51.9 77.9
 61 47.9 37.6 56.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

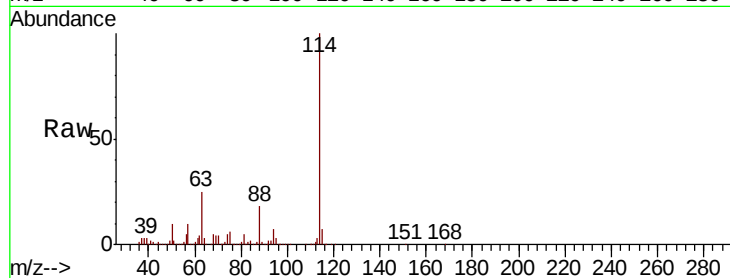
Tot Ion:114 Resp: 3979744

Ion Ratio Lower Upper

114 100

63 24.4 19.6 29.4

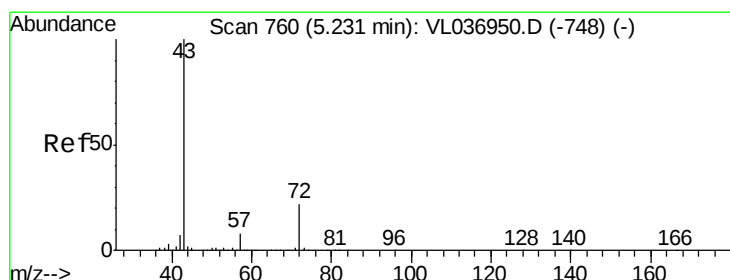
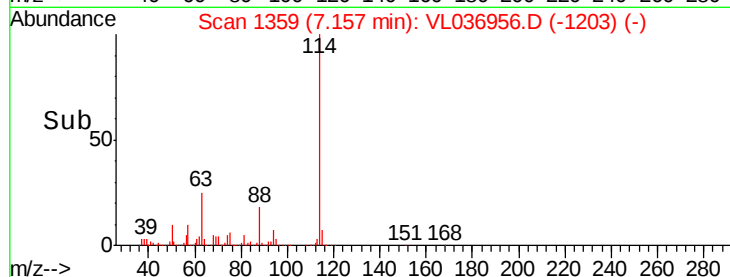
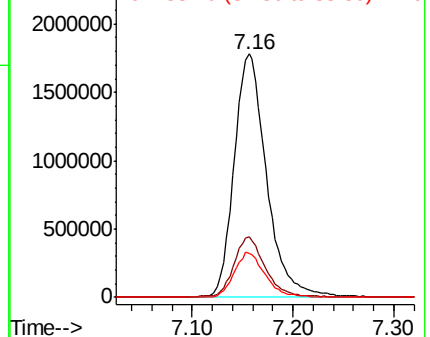
88 17.9 14.6 21.8



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: 14.112 ppbv

RT: 5.23 min Scan# 759

Delta R.T. -0.00 min

Lab File: VL036956.D

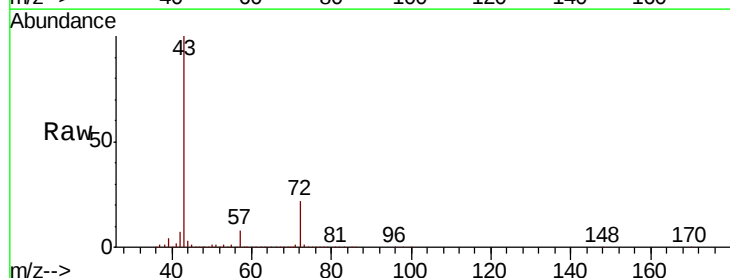
Acq: 18 May 2021 5:47

Tgt Ion: 43 Resp: 2147757

Ion Ratio Lower Upper

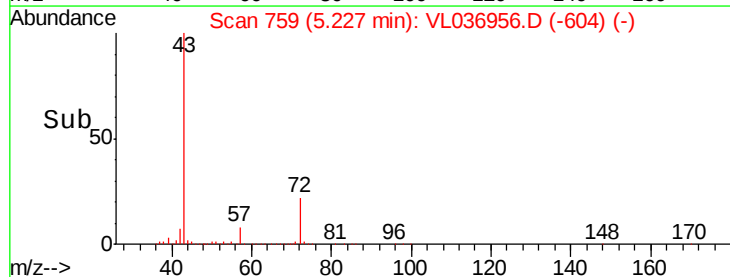
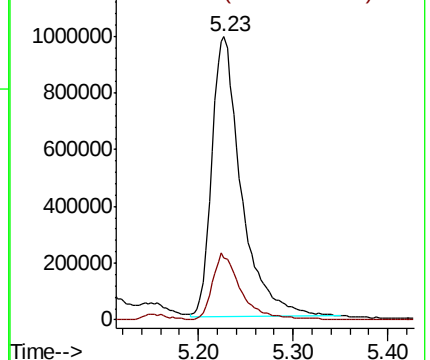
43 100

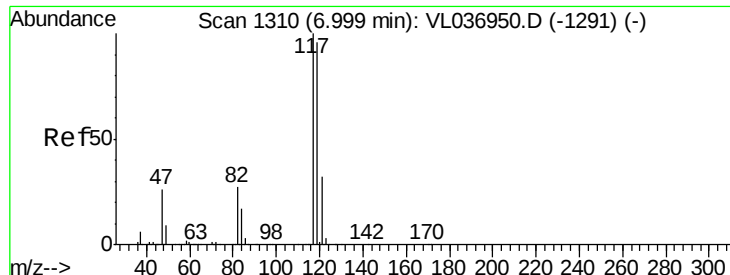
72 23.4 19.0 28.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 10.829 ppbv

RT: 7.00 min Scan# 1309

Delta R.T. -0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

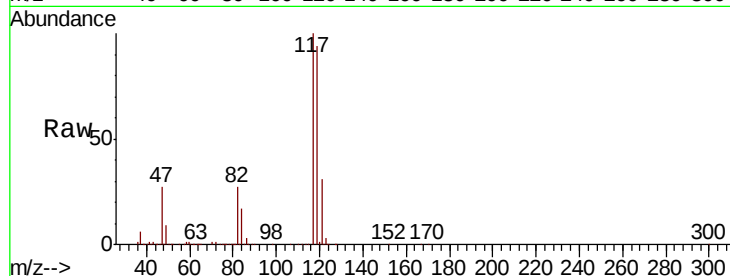
Tot Ion:117 Resp: 3368514

Ion Ratio Lower Upper

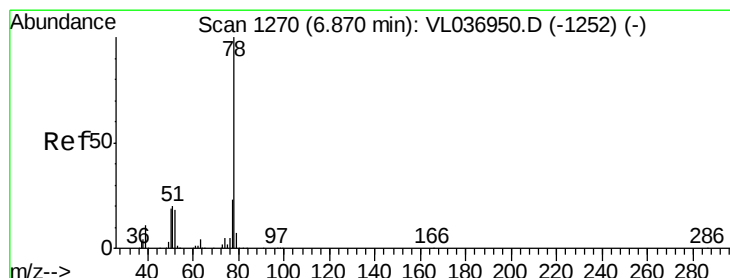
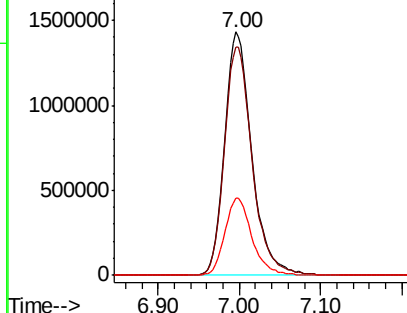
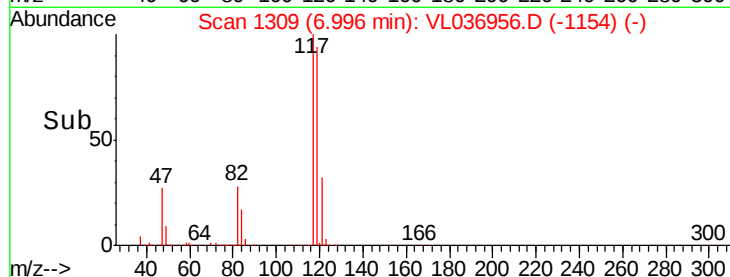
117 100

119 93.8 76.6 114.8

121 31.5 25.8 38.6



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: 13.963 ppbv

RT: 6.87 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

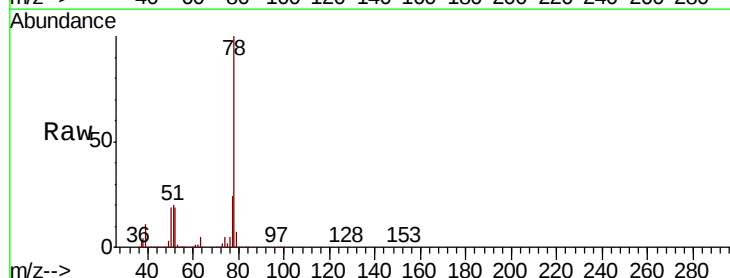
Tgt Ion: 78 Resp: 4463835

Ion Ratio Lower Upper

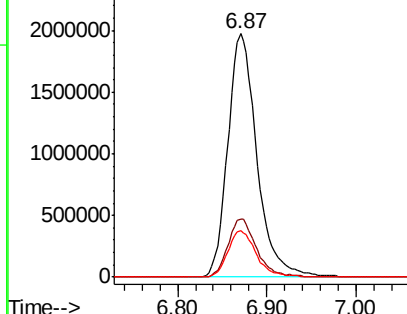
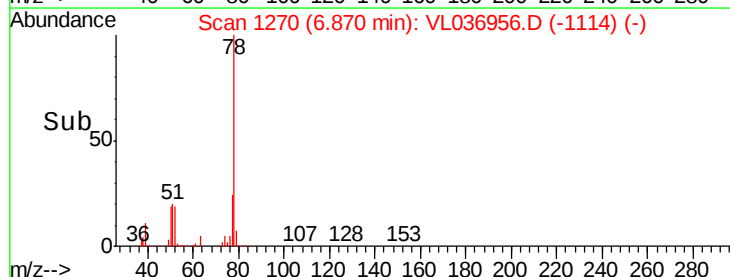
78 100

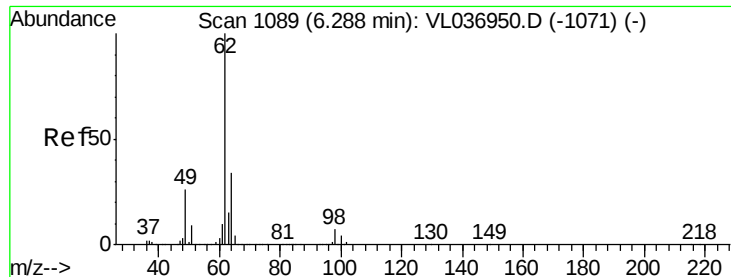
77 23.7 18.6 28.0

50 18.8 15.0 22.4



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: 12.434 ppbv

RT: 6.29 min Scan# 1089

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

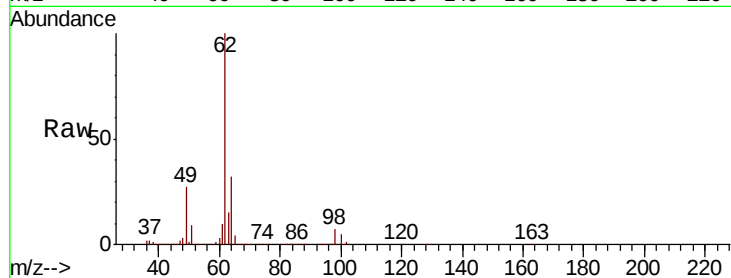
VSTDIC015

Tot Ion: 62 Resp: 2358004

Ion Ratio Lower Upper

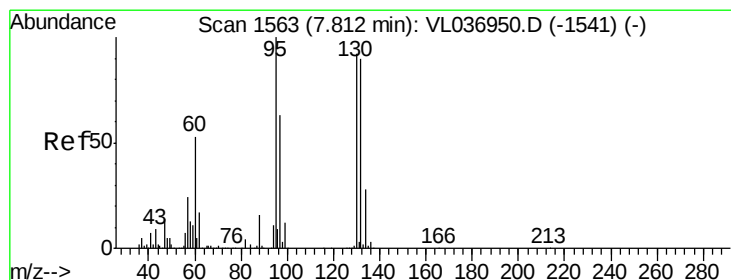
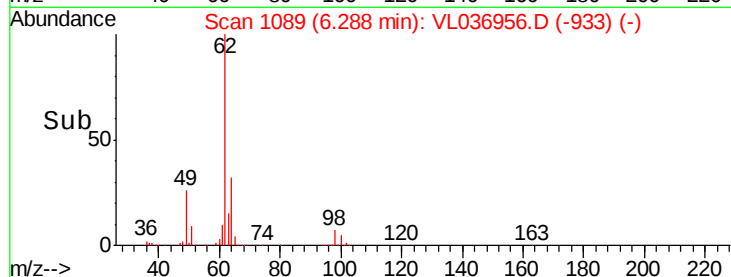
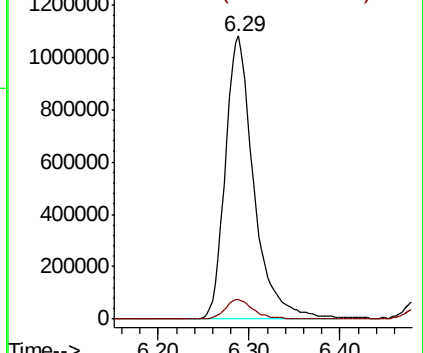
62 100

98 7.1 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: 12.969 ppbv

RT: 7.81 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Tgt Ion:130 Resp: 1700616

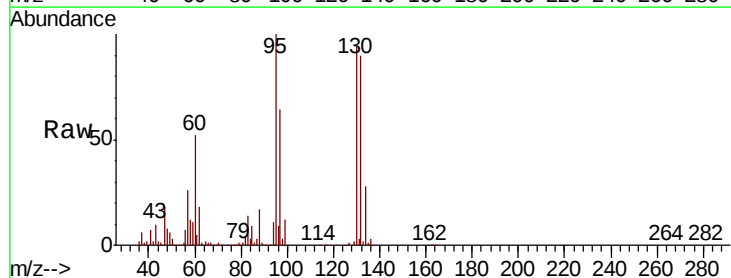
Ion Ratio Lower Upper

130 100

95 106.9 86.9 130.3

132 96.5 78.4 117.6

97 68.2 55.0 82.6

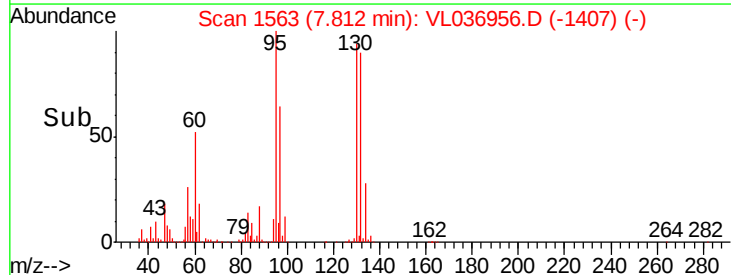
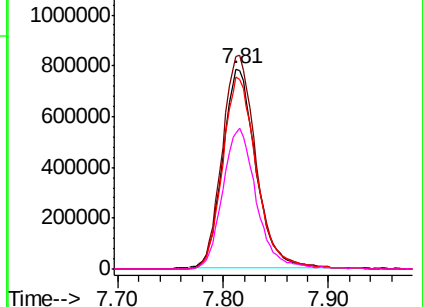


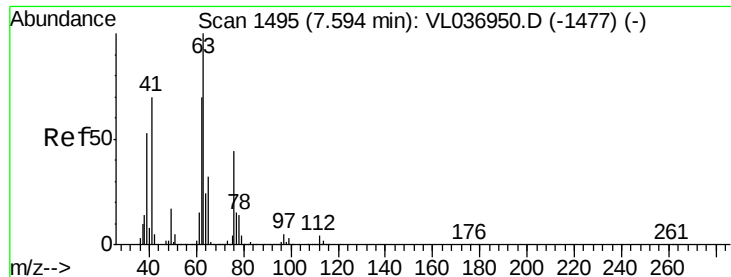
Abundance Ion 130.00 (129.70 to 130.70): V

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: 13.399 ppbv

RT: 7.59 min Scan# 1494

Delta R.T. -0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

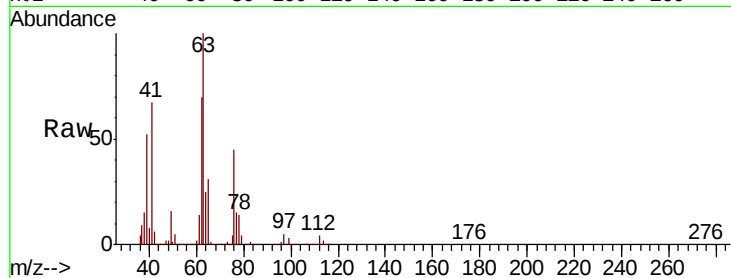
Tot Ion: 63 Resp: 1754784

Ion Ratio Lower Upper

63 100

41 67.2 55.7 83.5

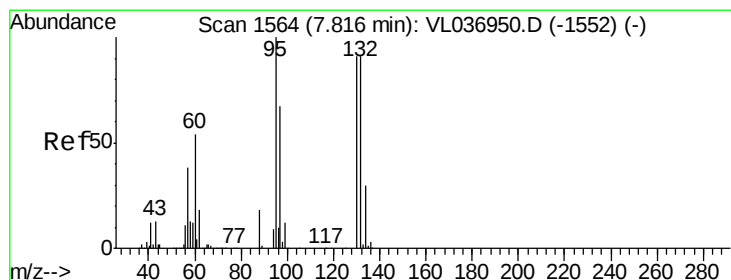
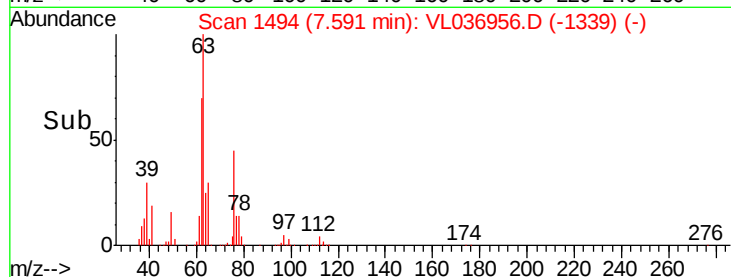
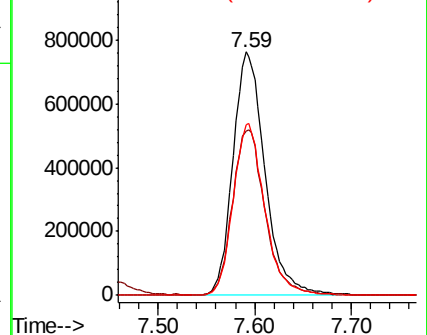
62 70.3 56.2 84.4



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



#40

1,4-Dioxane

Concen: 9.805 ppbv

RT: 7.81 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Tgt Ion: 88 Resp: 334877

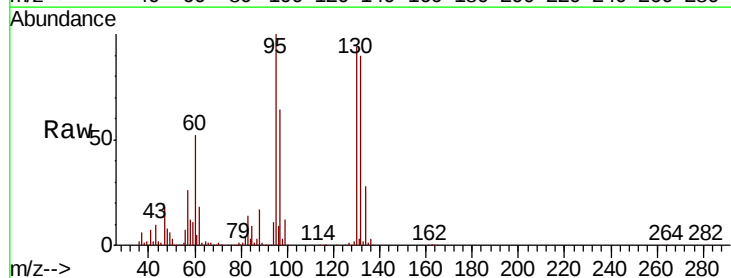
Ion Ratio Lower Upper

88 100

58 179.6 0.0 0.0#

43 478.5 0.0 0.0#

57 2129.8 0.0 0.0#

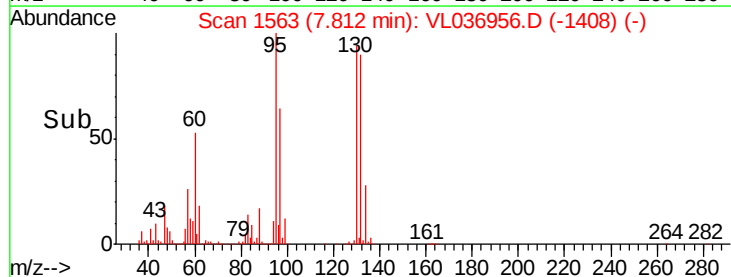
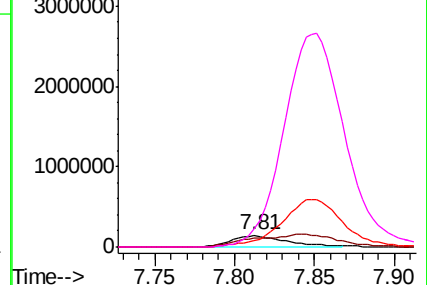


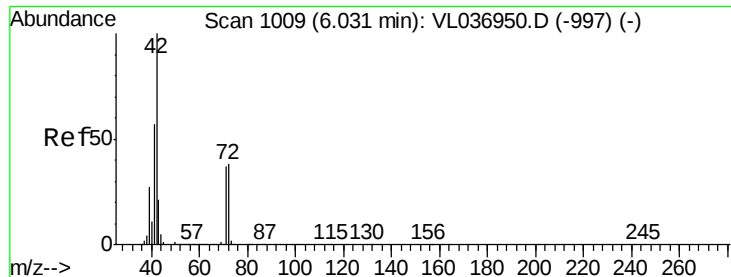
Abundance Ion 88.10 (87.80 to 88.80): VL0

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





#41

Tetrahydrofuran

Concen: 18.245 ppbv

RT: 6.03 min Scan# 1008

Delta R.T. -0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

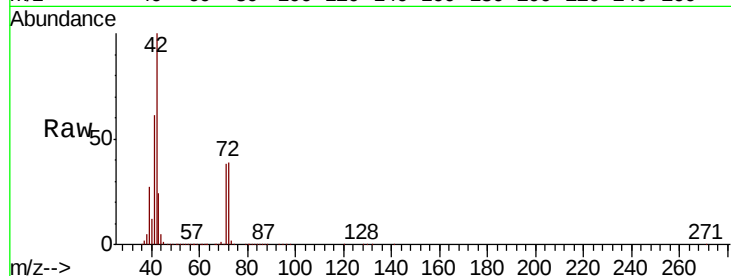
Tot Ion: 42 Resp: 1133978

Ion Ratio Lower Upper

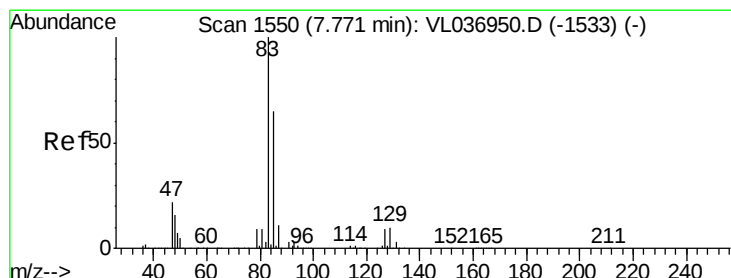
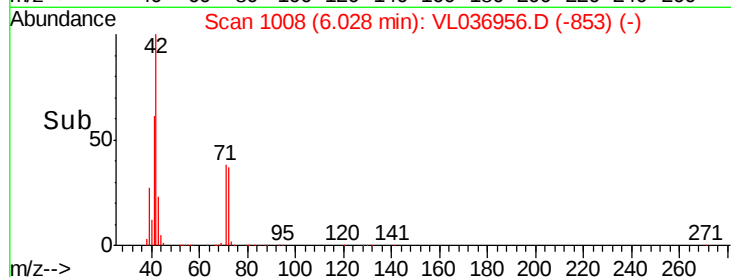
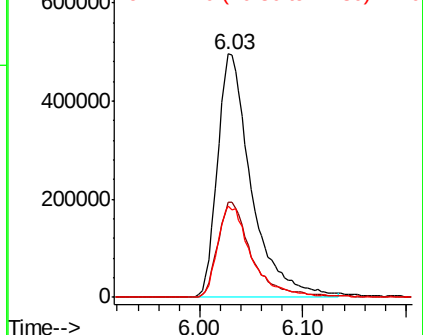
42 100

72 39.4 31.4 47.2

71 38.4 30.4 45.6



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: 12.568 ppbv

RT: 7.77 min Scan# 1550

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

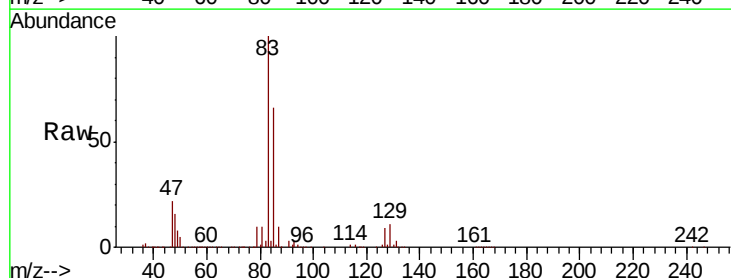
Tgt Ion: 83 Resp: 3509476

Ion Ratio Lower Upper

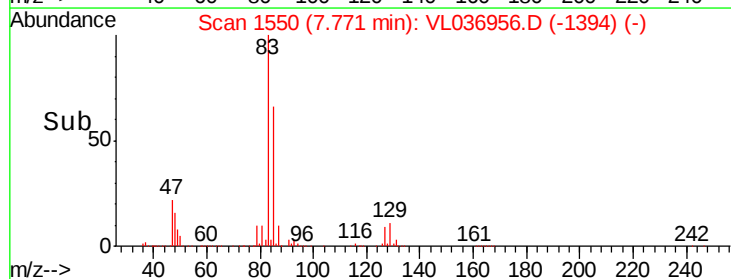
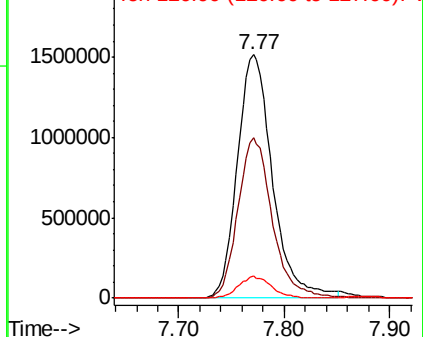
83 100

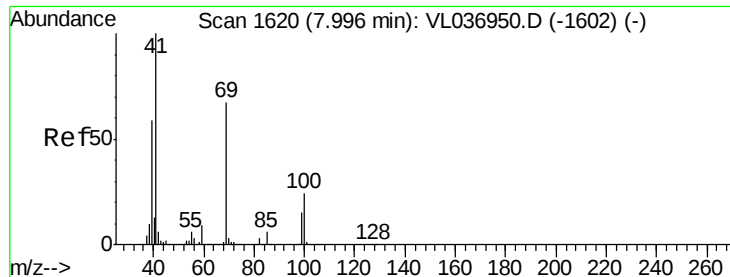
85 65.7 51.7 77.5

127 8.9 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): V





#43

Methyl Methacrylate

Concen: 17.718 ppbv

RT: 7.99 min Scan# 1619

Delta R.T. -0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

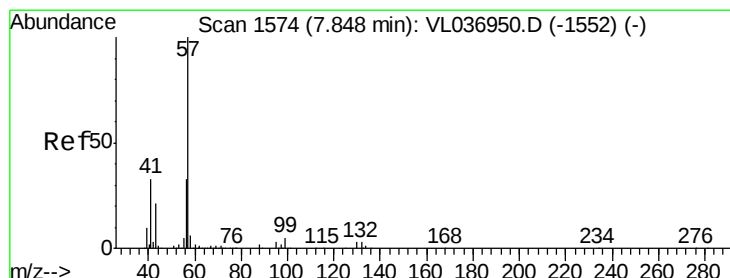
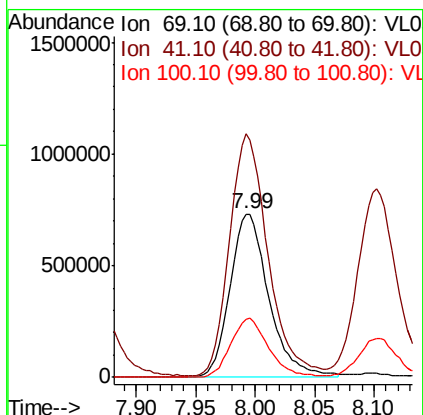
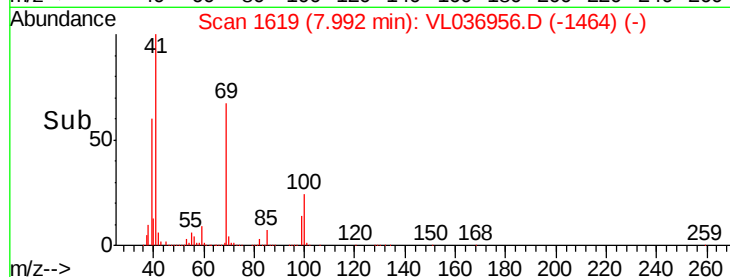
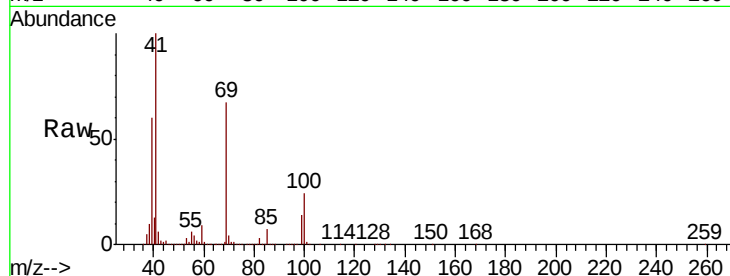
Tot Ion: 69 Resp: 1648541

Ion Ratio Lower Upper

69 100

41 148.5 118.6 178.0

100 35.6 28.2 42.4



#44

2,2,4-Trimethylpentane

Concen: 12.546 ppbv

RT: 7.85 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

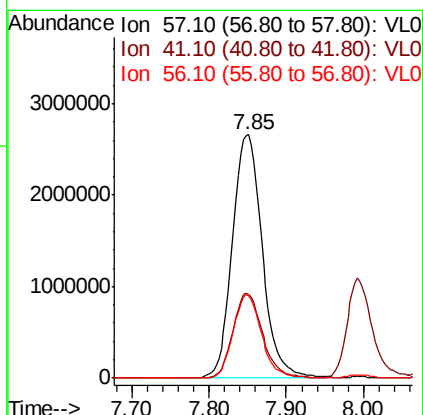
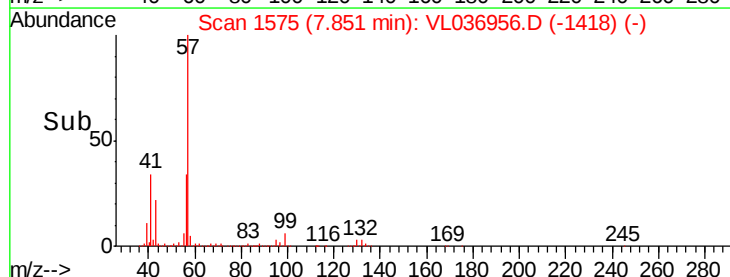
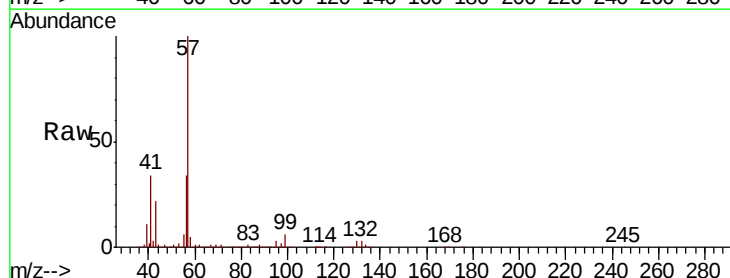
Tgt Ion: 57 Resp: 7130166

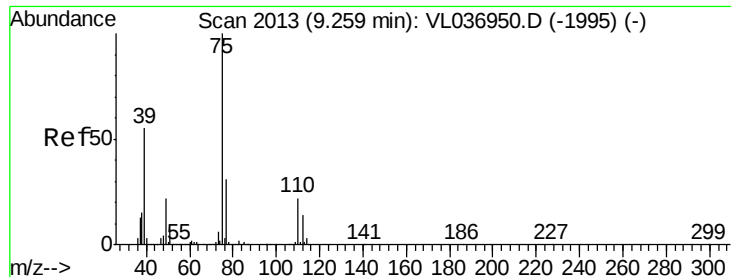
Ion Ratio Lower Upper

57 100

41 34.3 27.0 40.4

56 32.5 25.4 38.2





#45

t-1,3-Dichloropropene

Concen: 16.658 ppbv

RT: 9.26 min Scan# 2012

Delta R.T. -0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

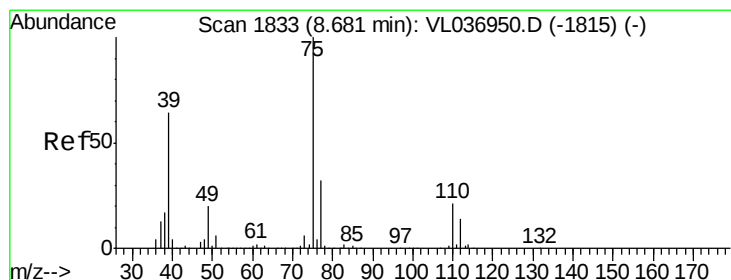
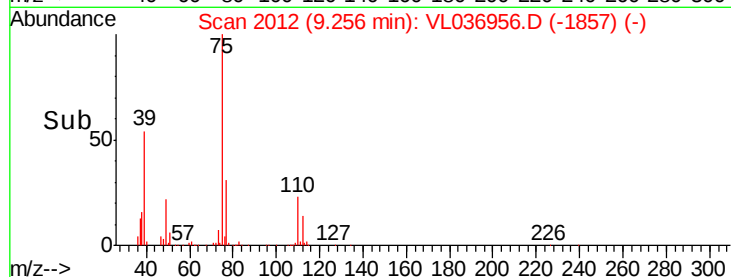
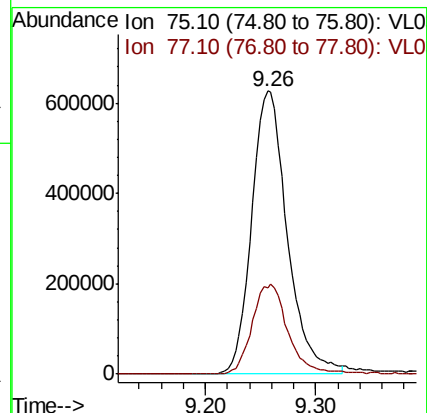
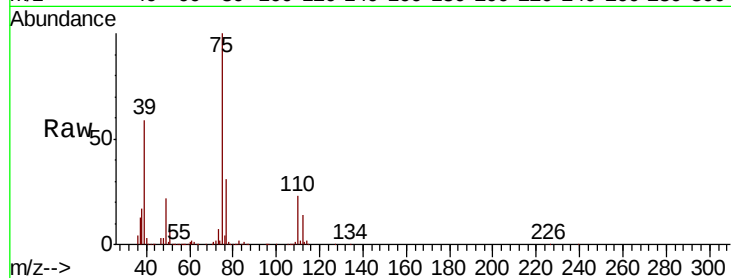
VSTDIC015

Tot Ion: 75 Resp: 1399577

Ion Ratio Lower Upper

75 100

77 30.7 24.4 36.6



#46

cis-1,3-Dichloropropene

Concen: 14.935 ppbv

RT: 8.68 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

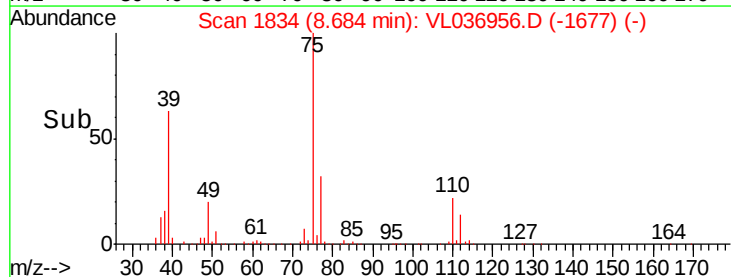
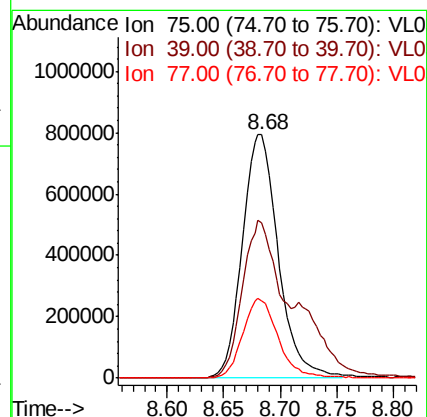
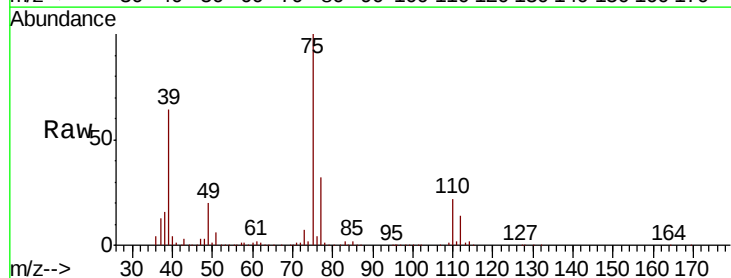
Tgt Ion: 75 Resp: 1756978

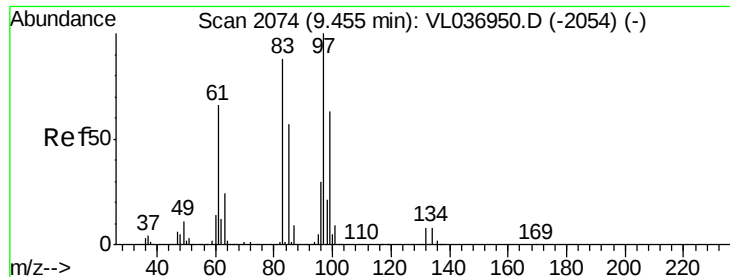
Ion Ratio Lower Upper

75 100

39 63.6 51.5 77.3

77 31.6 25.9 38.9





#47

1,1,2-Trichloroethane

Concen: 12.830 ppbv

RT: 9.46 min Scan# 2074

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 97 Resp: 1842824

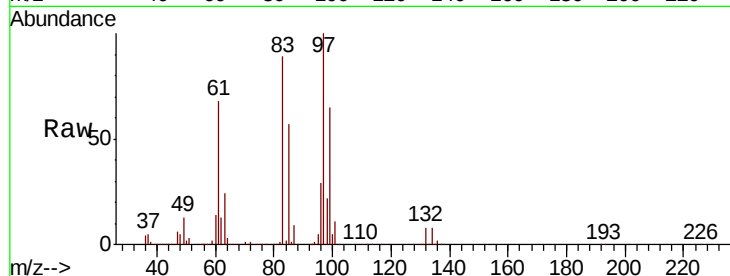
Ion Ratio Lower Upper

97 100

83 88.7 70.4 105.6

85 56.9 45.5 68.3

99 65.1 50.2 75.2

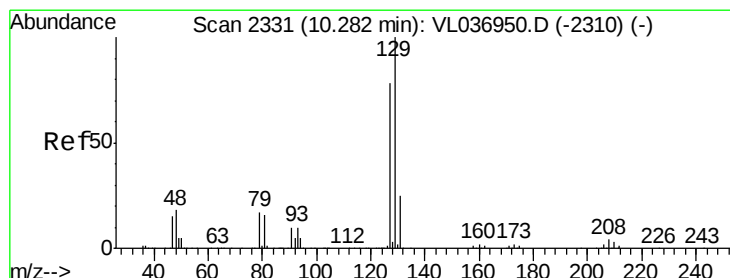
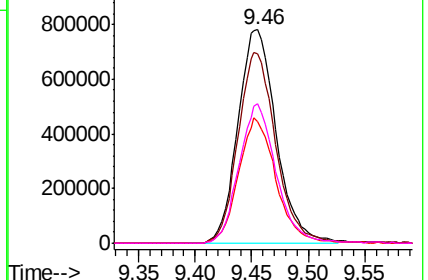
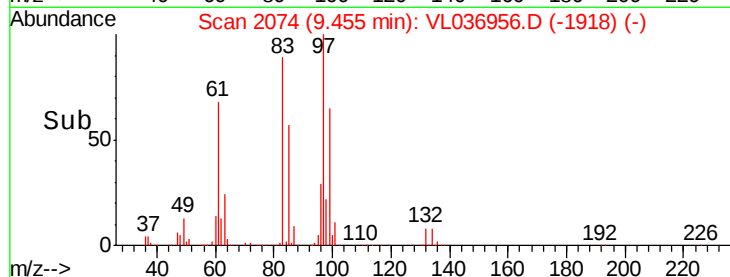


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 14.497 ppbv

RT: 10.28 min Scan# 2331

Delta R.T. 0.00 min

Lab File: VL036956.D

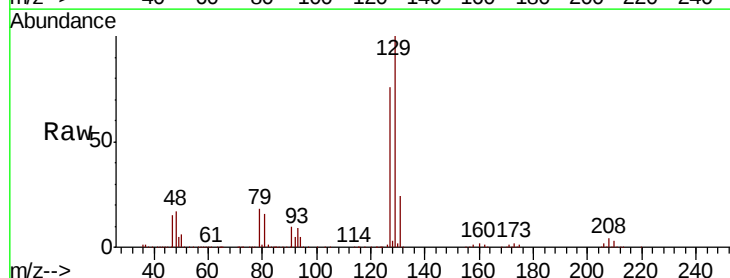
Acq: 18 May 2021 5:47

Tgt Ion: 129 Resp: 3132569

Ion Ratio Lower Upper

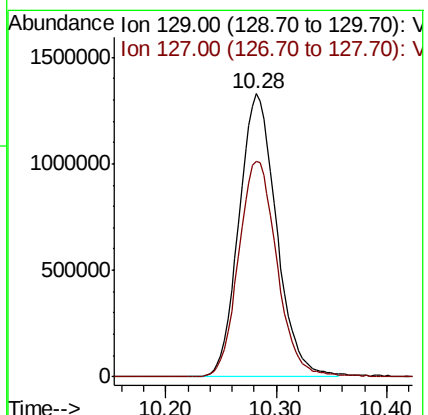
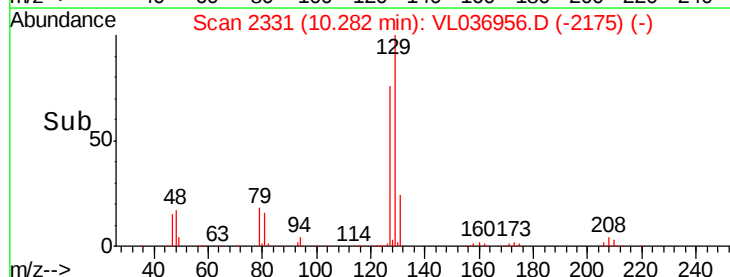
129 100

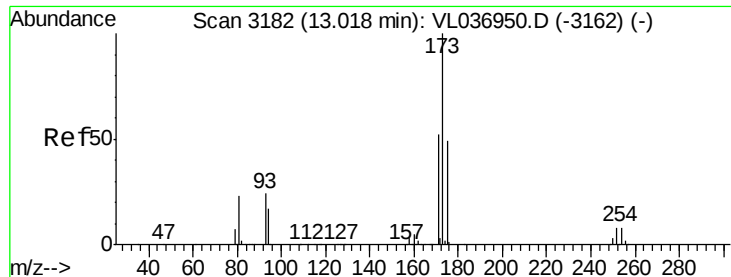
127 78.6 39.3 117.8



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 15.021 ppbv

RT: 13.02 min Scan# 3182

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

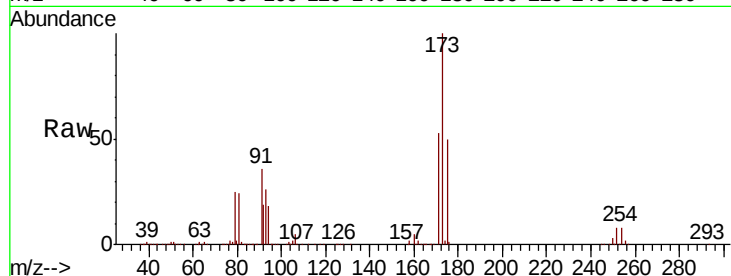
Tot Ion:173 Resp: 2671872

Ion Ratio Lower Upper

173 100

175 50.0 40.4 60.6

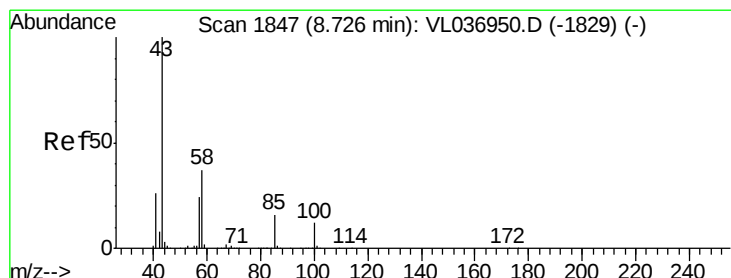
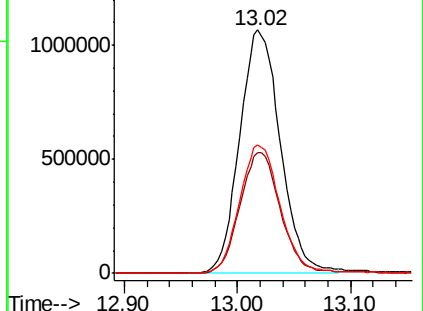
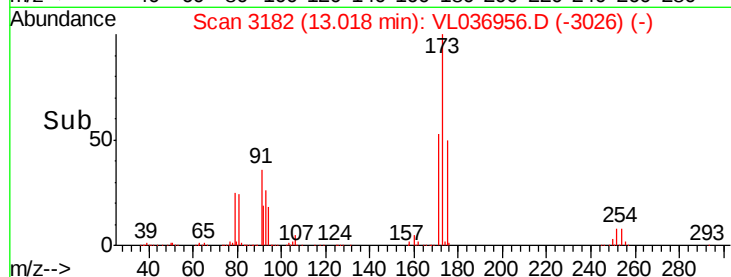
171 53.6 42.6 64.0



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: 15.660 ppbv

RT: 8.72 min Scan# 1845

Delta R.T. -0.01 min

Lab File: VL036956.D

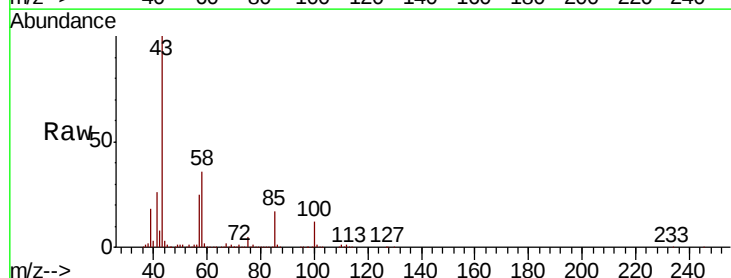
Acq: 18 May 2021 5:47

Tgt Ion: 43 Resp: 3261767

Ion Ratio Lower Upper

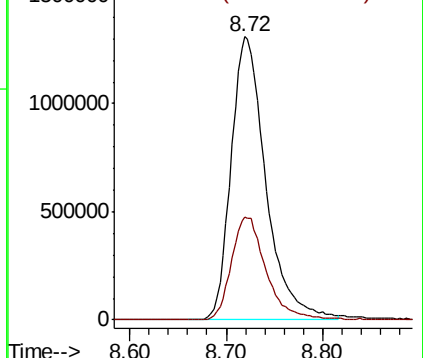
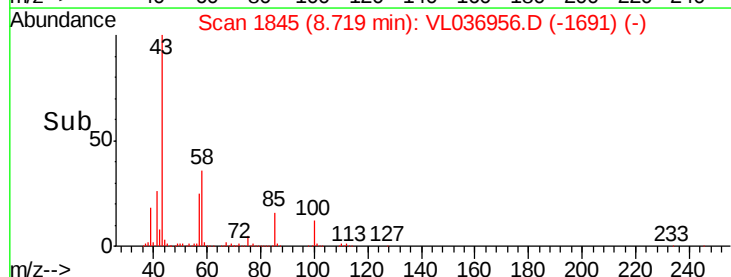
43 100

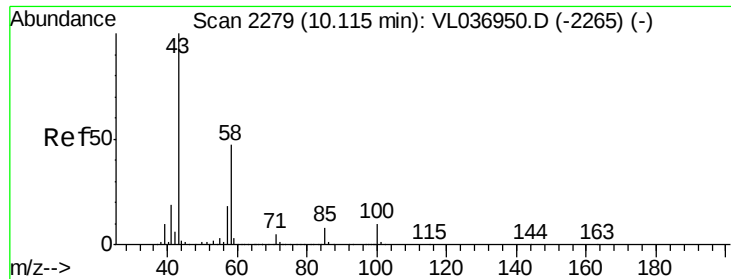
58 36.9 29.4 44.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

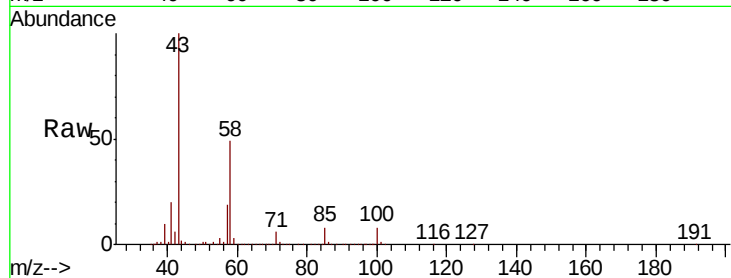




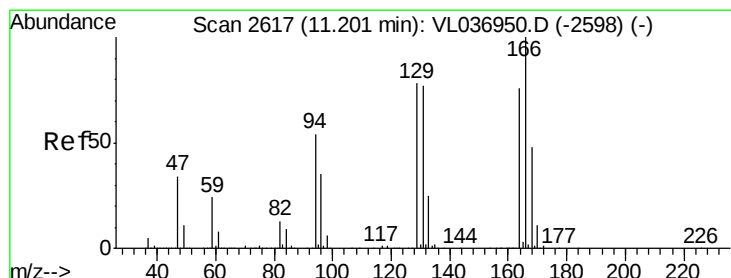
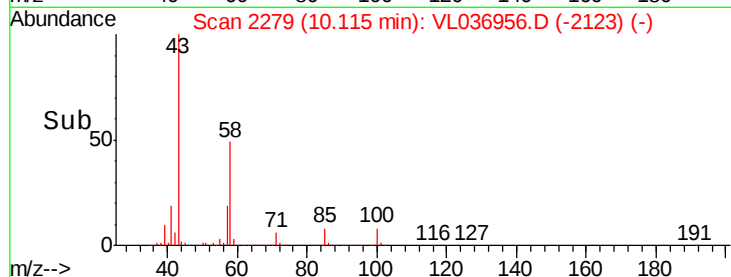
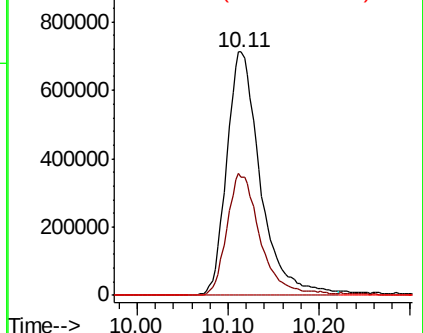
#51
2-Hexanone
Concen: 20.598 ppbv
RT: 10.11 min Scan# 2279
Delta R.T. 0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 1828133
Ion Ratio Lower Upper
43 100
58 50.8 41.1 61.7
98 0.1 0.1 0.1#

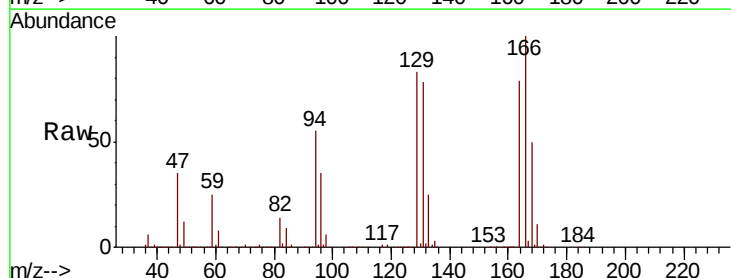


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0

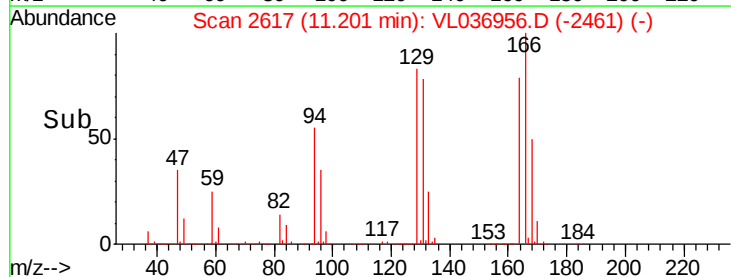
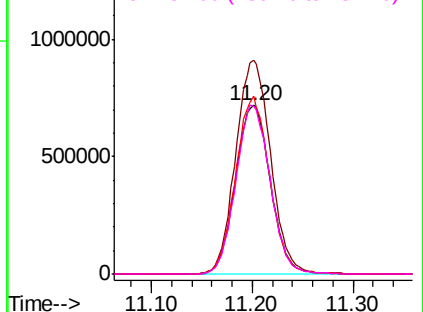


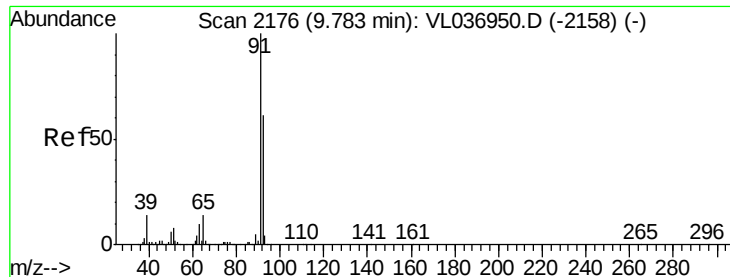
#52
Tetrachloroethene
Concen: 14.668 ppbv
RT: 11.20 min Scan# 2617
Delta R.T. 0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

Tgt Ion: 164 Resp: 1723528
Ion Ratio Lower Upper
164 100
166 126.6 105.5 158.3
129 105.7 81.8 122.8
131 99.3 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: 16.411 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

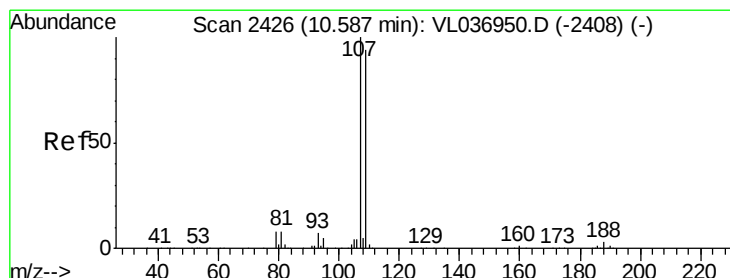
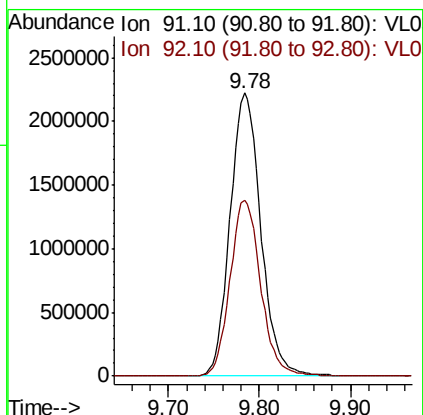
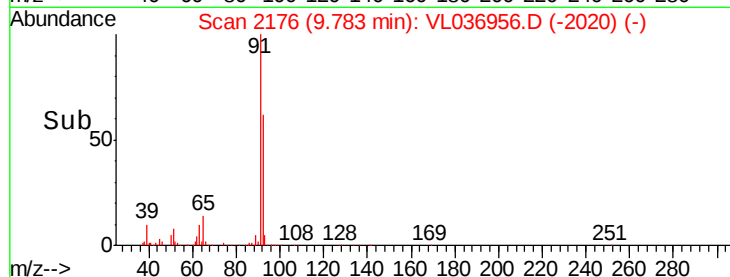
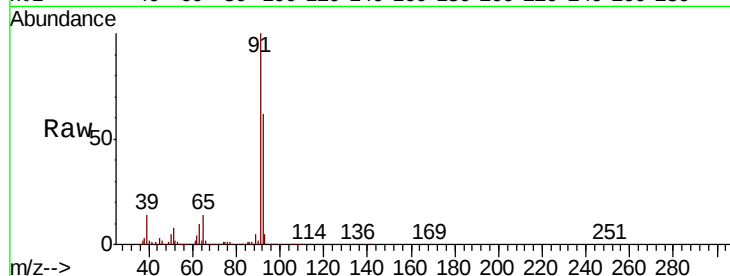
VSTDIC015

Tot Ion: 91 Resp: 5233237

Ion Ratio Lower Upper

91 100

92 62.1 49.5 74.3



#54

1,2-Dibromoethane

Concen: 14.282 ppbv

RT: 10.59 min Scan# 2426

Delta R.T. 0.00 min

Lab File: VL036956.D

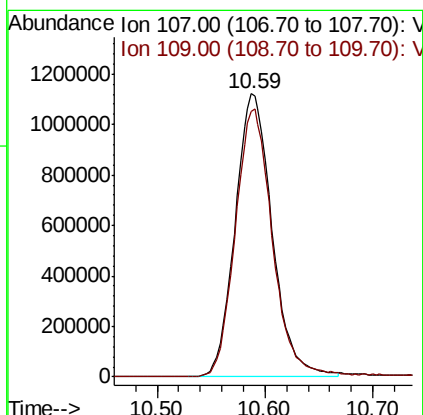
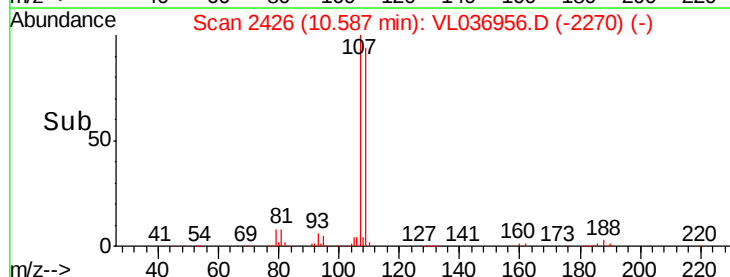
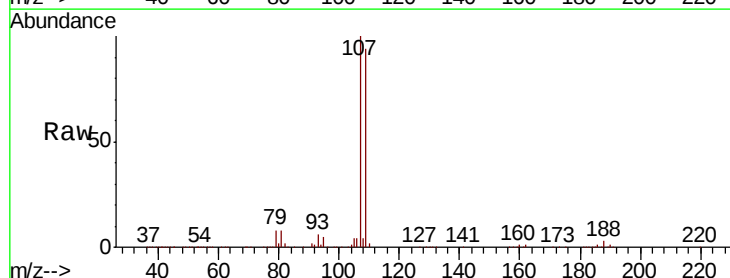
Acq: 18 May 2021 5:47

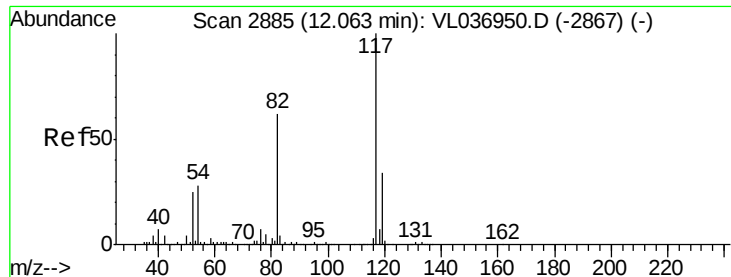
Tgt Ion: 107 Resp: 2678516

Ion Ratio Lower Upper

107 100

109 93.9 75.0 112.4

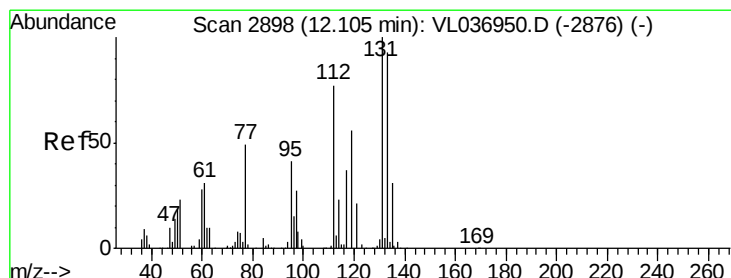
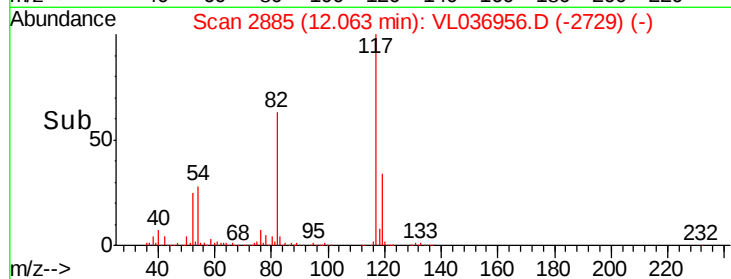
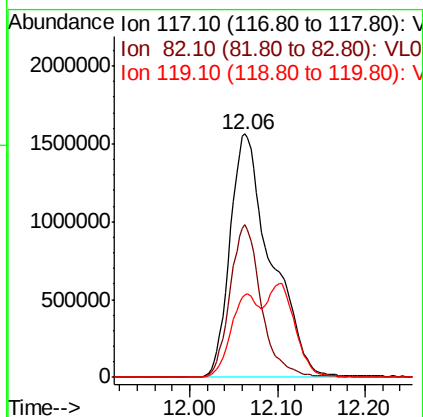
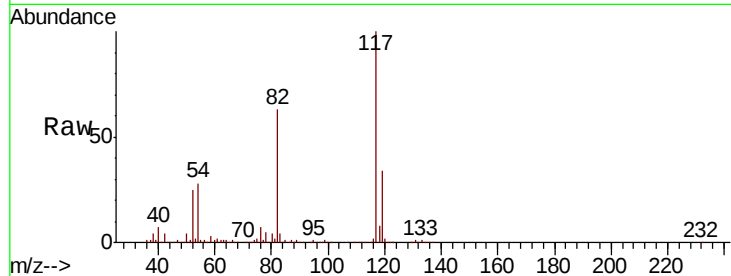




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2885
Delta R.T. 0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

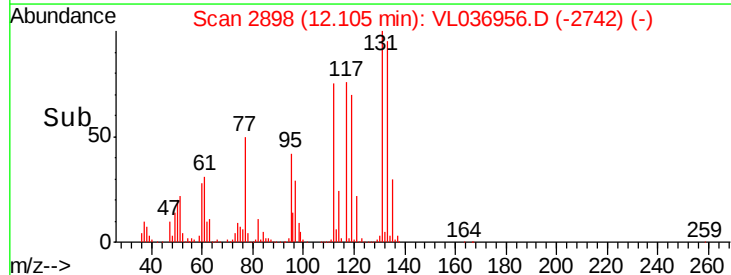
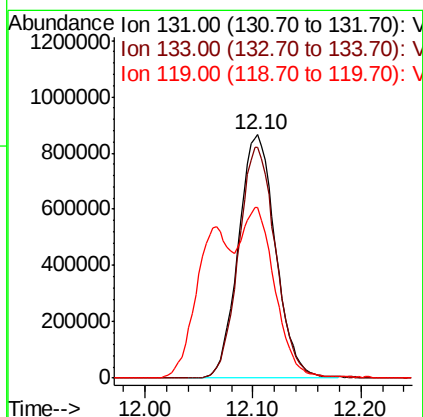
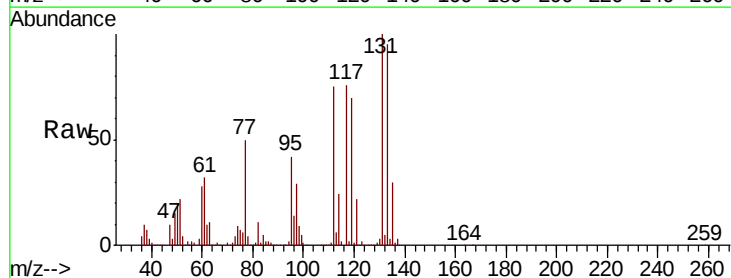
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

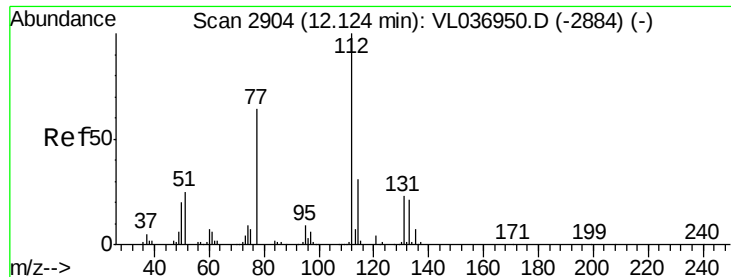
Tot Ion:117 Resp: 5106022
Ion Ratio Lower Upper
117 100
82 48.0 52.6 79.0#
119 25.4 46.6 70.0#



#56
1,1,1,2-Tetrachloroethane
Concen: 8.835 ppbv
RT: 12.10 min Scan# 2898
Delta R.T. 0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

Tgt Ion:131 Resp: 2074059
Ion Ratio Lower Upper
131 100
133 95.2 76.9 115.3
119 70.2 120.2 180.4#

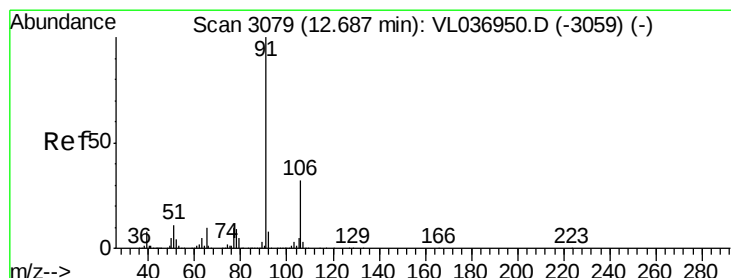
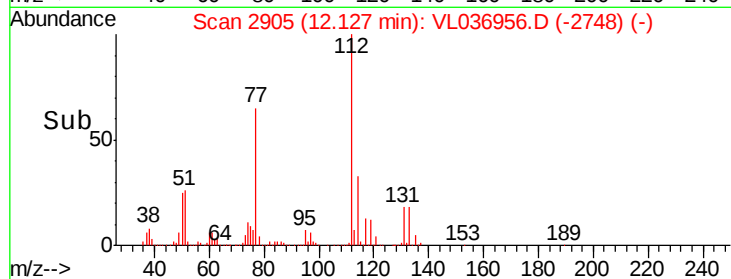
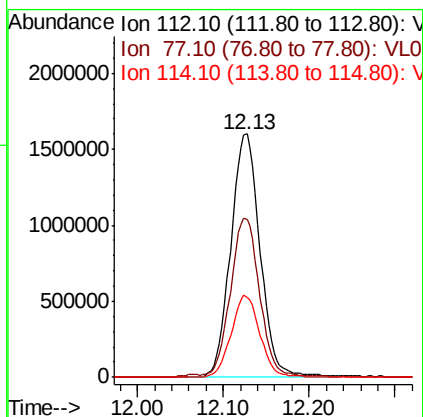
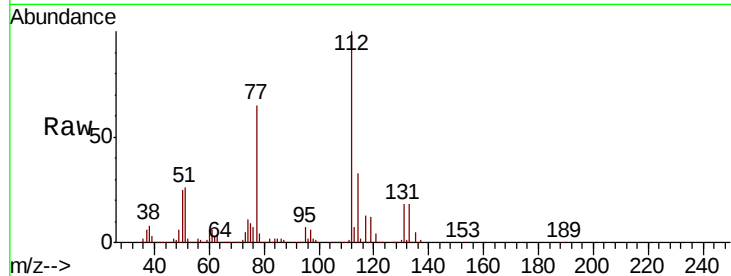




#57
Chlorobenzene
Concen: 8.799 ppbv
RT: 12.13 min Scan# 2905
Delta R.T. 0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

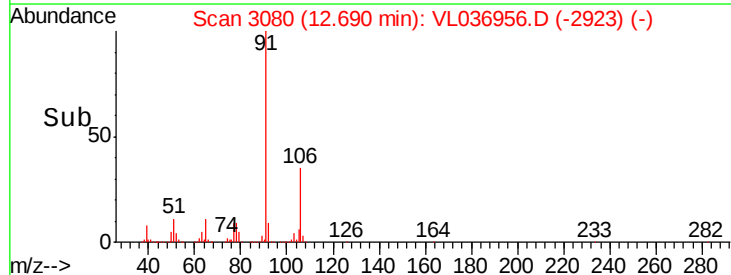
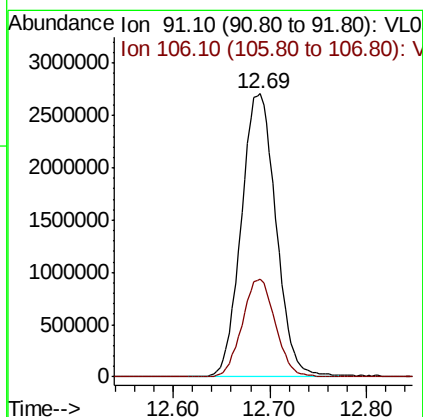
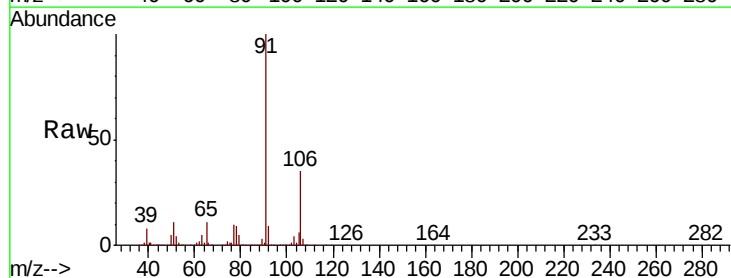
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

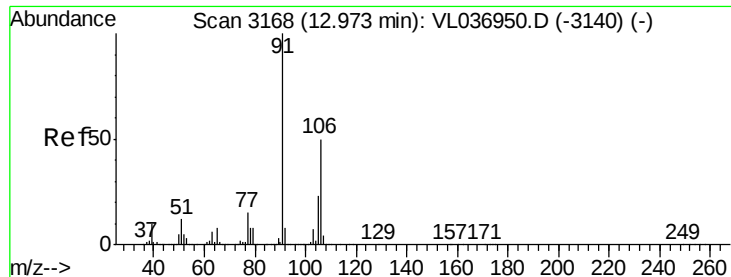
Tot Ion:112 Resp: 3791865
Ion Ratio Lower Upper
112 100
77 64.4 51.0 76.6
114 32.5 28.3 34.5



#58
Ethyl Benzene
Concen: 11.123 ppbv
RT: 12.69 min Scan# 3080
Delta R.T. 0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

Tgt Ion: 91 Resp: 6750723
Ion Ratio Lower Upper
91 100
106 34.7 25.6 38.4

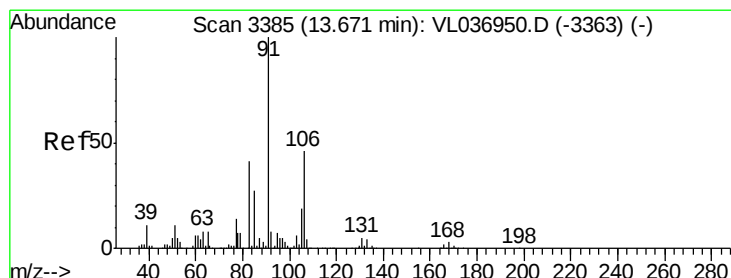
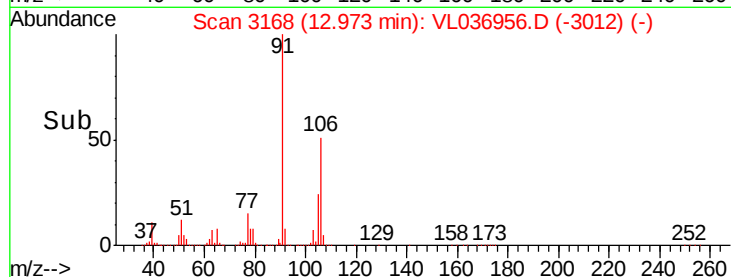
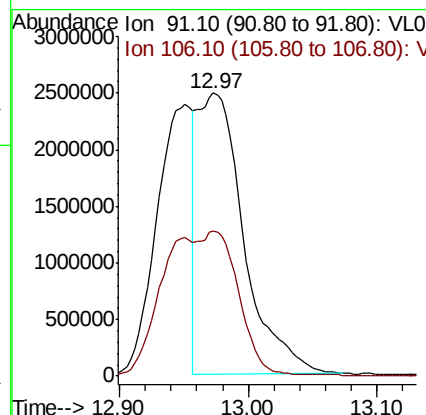
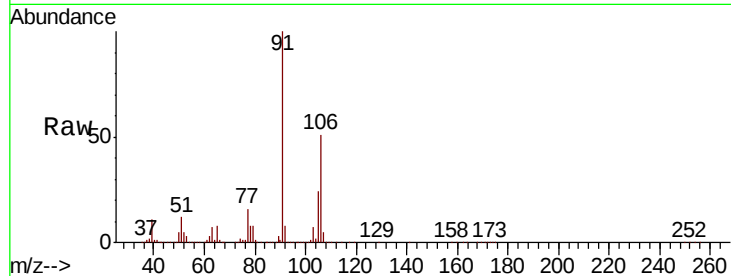




#59
m/p-Xylene
Concen: 10.841 ppbv
RT: 12.97 min Scan# 3168
Delta R.T. 0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

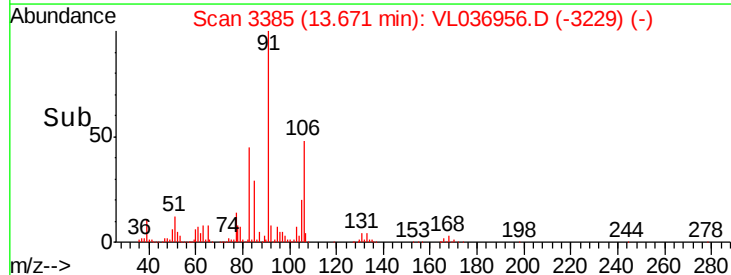
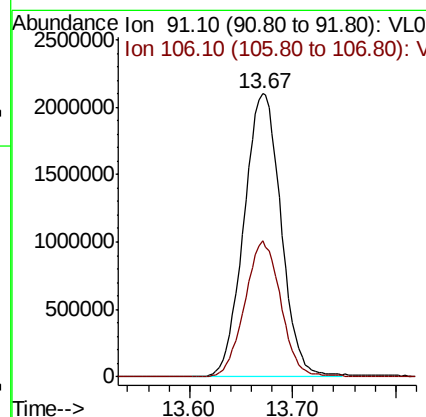
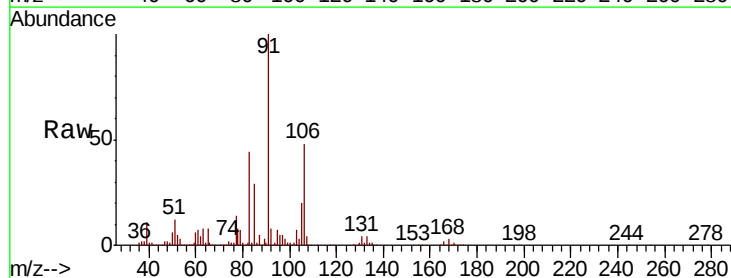
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

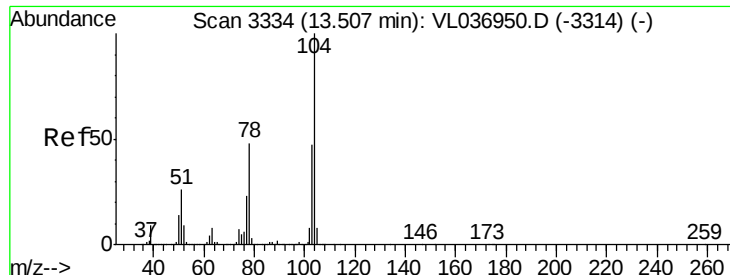
Tot Ion: 91 Resp: 6183598
Ion Ratio Lower Upper
91 100
106 84.0 37.4 56.2#



#60
o-Xylene
Concen: 9.495 ppbv
RT: 13.67 min Scan# 3385
Delta R.T. 0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

Tgt Ion: 91 Resp: 5238278
Ion Ratio Lower Upper
91 100
106 47.1 23.4 70.3





#61

Stvrene

Concen: 14.790 ppbv

RT: 13.51 min Scan# 3334

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

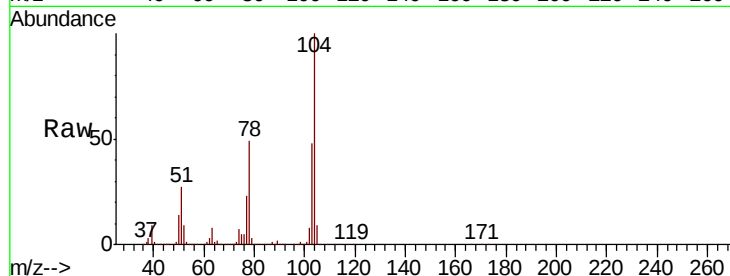
Tot Ion:104 Resp: 3350941

Ion Ratio Lower Upper

104 100

78 49.2 39.0 58.6

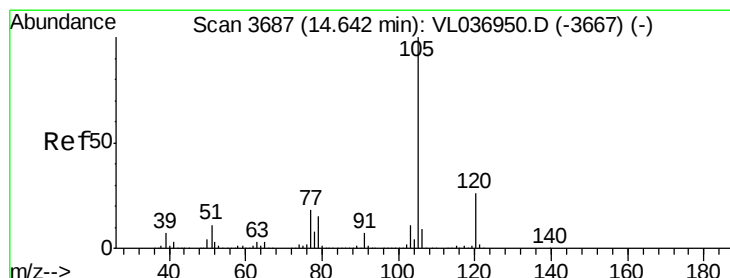
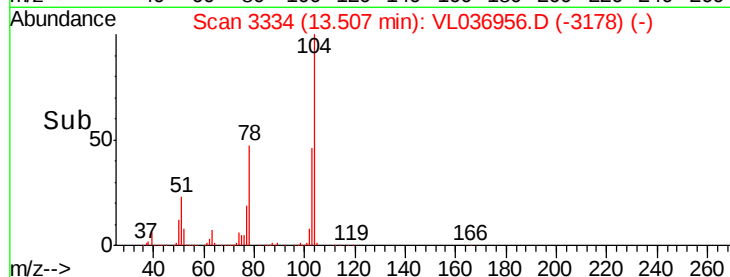
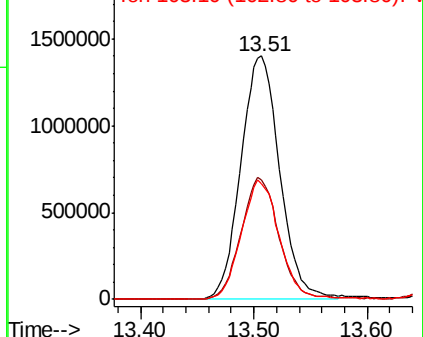
103 48.1 38.0 57.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.842 ppbv

RT: 14.64 min Scan# 3688

Delta R.T. 0.00 min

Lab File: VL036956.D

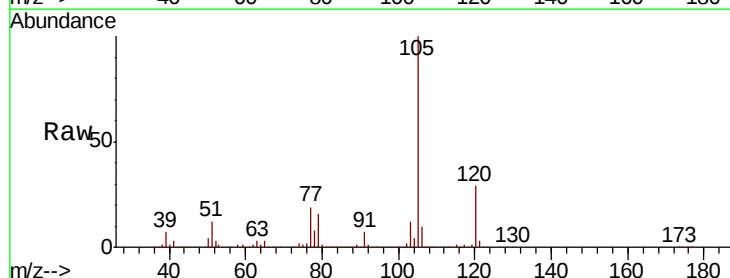
Acq: 18 May 2021 5:47

Tgt Ion:105 Resp: 7404884

Ion Ratio Lower Upper

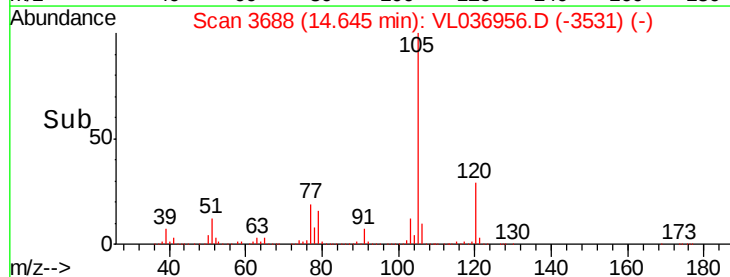
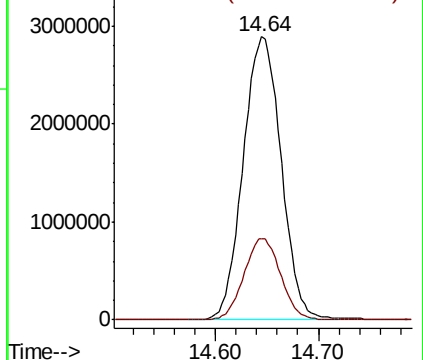
105 100

120 27.9 21.7 32.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 7.012 ppbv

RT: 13.65 min Scan# 3380

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

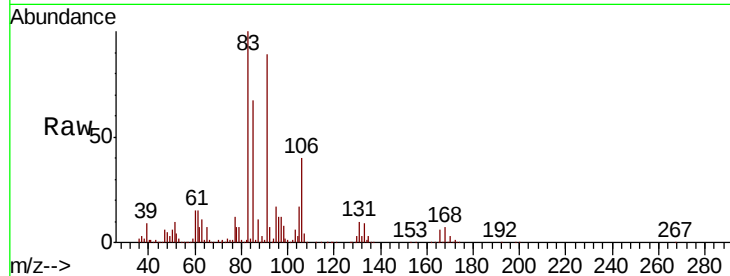
Tot Ion: 83 Resp: 3655174

Ion Ratio Lower Upper

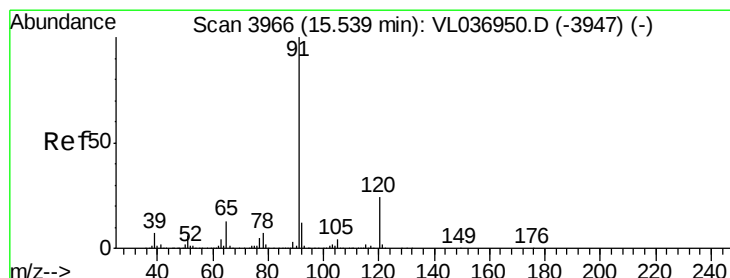
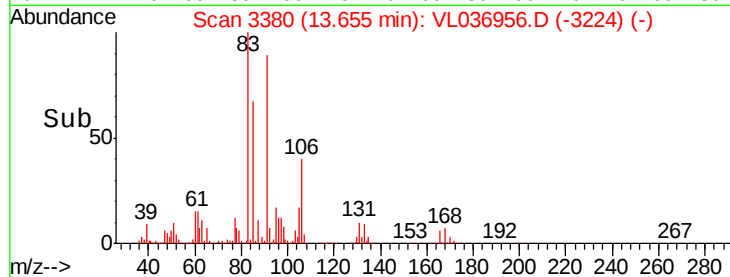
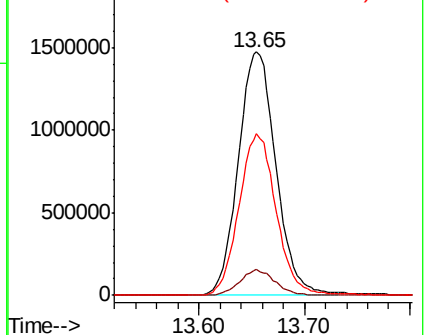
83 100

131 10.1 5.0 15.0

85 66.5 32.9 98.6



Abundance Ion 83.00 (82.70 to 83.70): VL0
2000000
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 11.337 ppbv

RT: 15.54 min Scan# 3967

Delta R.T. 0.00 min

Lab File: VL036956.D

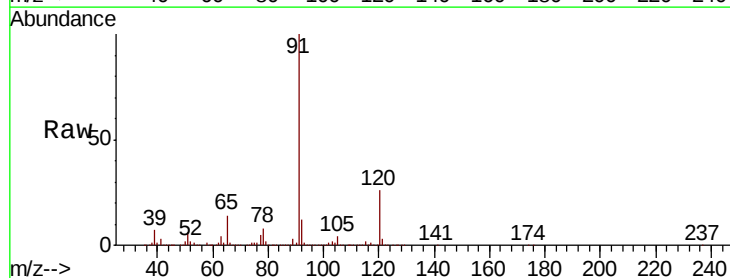
Acq: 18 May 2021 5:47

Tgt Ion:120 Resp: 2110902

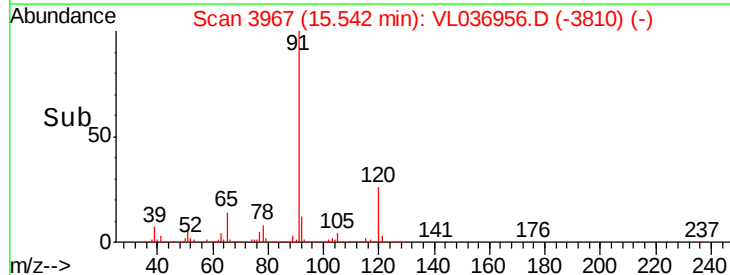
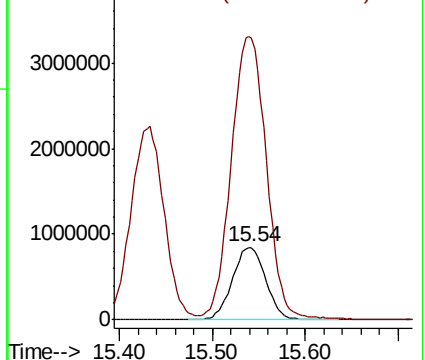
Ion Ratio Lower Upper

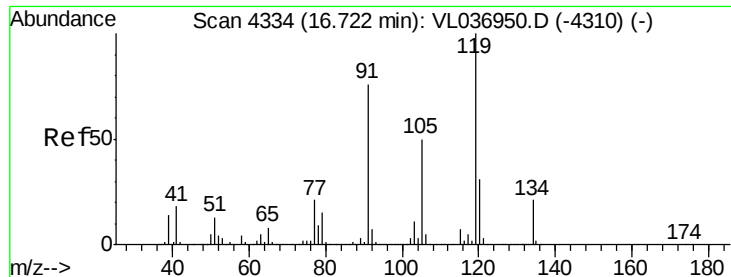
120 100

91 413.0 343.8 515.6



Abundance Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 9.837 ppbv

RT: 16.73 min Scan# 4335

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

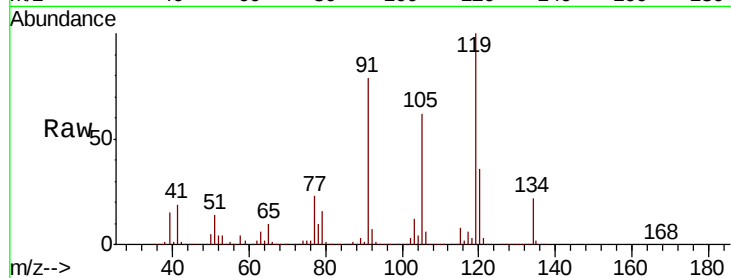
Tot Ion:119 Resp: 6563535

Ion Ratio Lower Upper

119 100

91 78.5 61.9 92.9

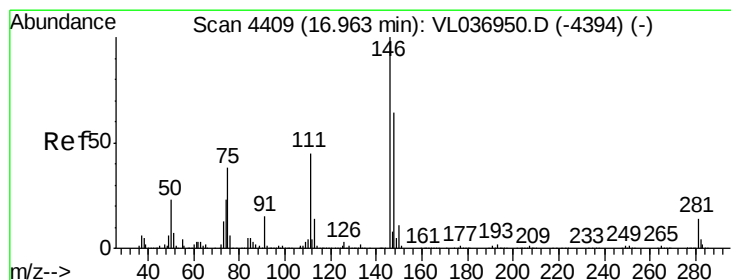
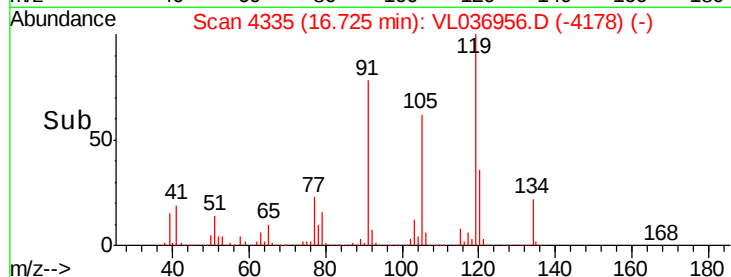
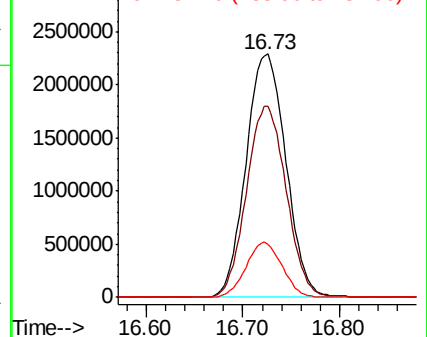
134 20.5 16.2 24.4



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: 7.299 ppbv

RT: 16.97 min Scan# 4410

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

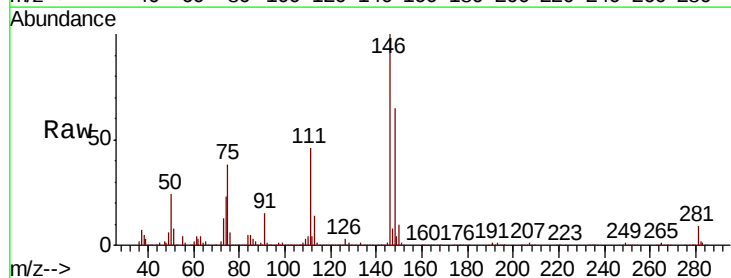
Tgt Ion: 91 Resp: 443339

Ion Ratio Lower Upper

91 100

126 19.9 16.5 24.7

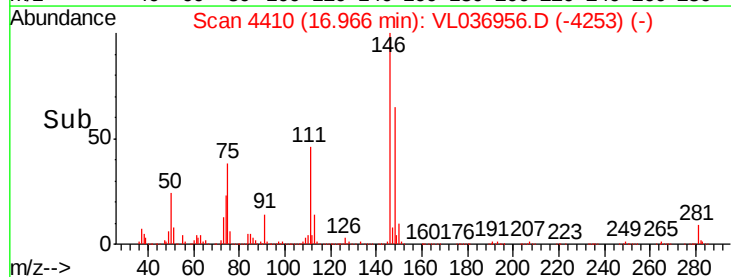
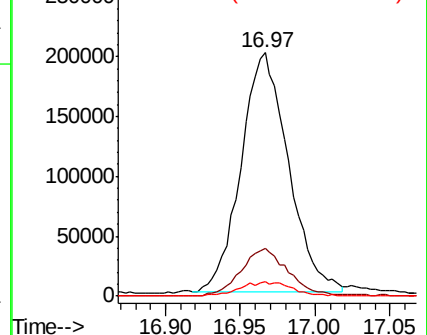
128 6.7 5.5 8.3

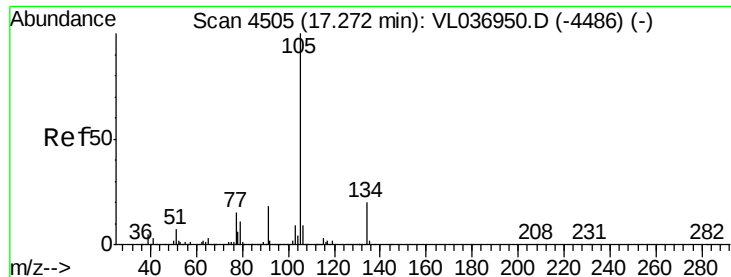


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.564 ppbv

RT: 17.27 min Scan# 4505

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

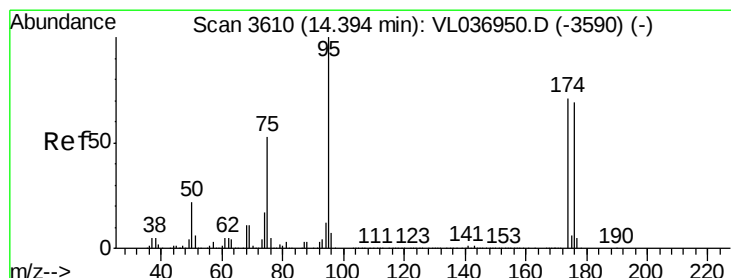
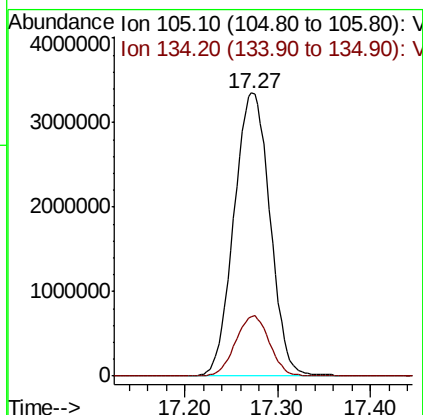
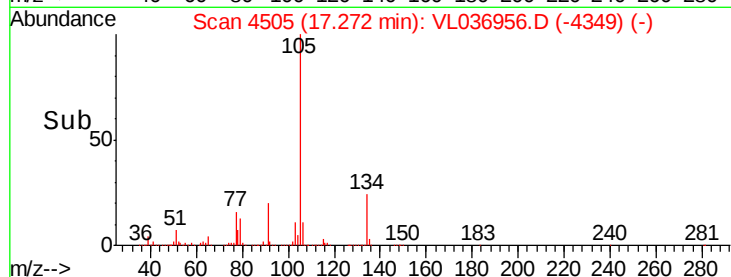
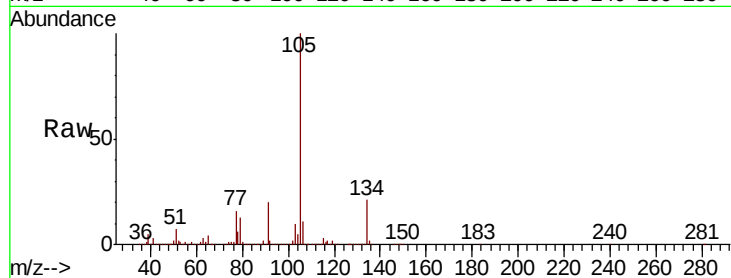
VSTDIC015

Tot Ion:105 Resp: 9015997

Ion Ratio Lower Upper

105 100

134 20.3 15.6 23.4



#68

1-Bromo-4-Fluorobenzene

Concen: 7.488 ppbv

RT: 14.39 min Scan# 3609

Delta R.T. -0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

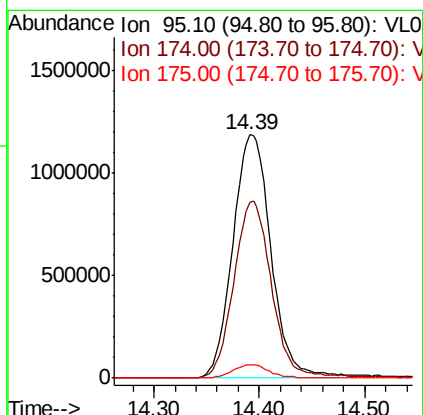
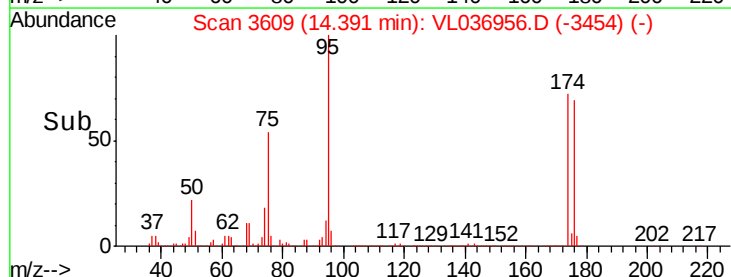
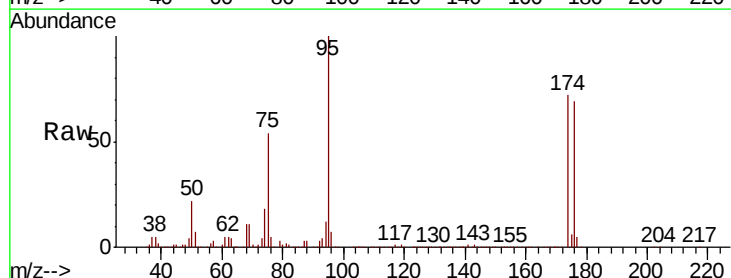
Tgt Ion: 95 Resp: 2981283

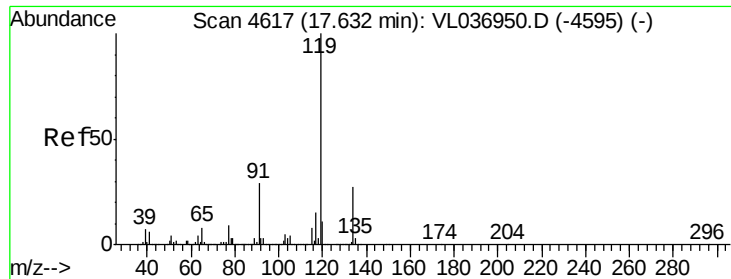
Ion Ratio Lower Upper

95 100

174 73.0 58.4 87.6

175 5.4 4.4 6.6



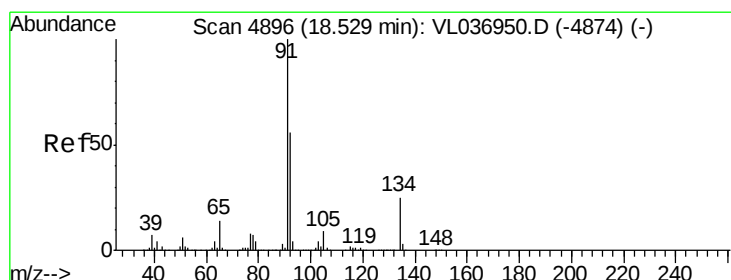
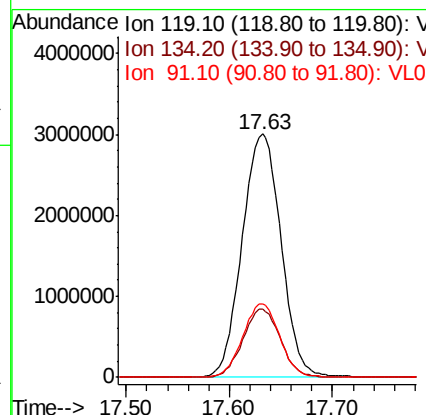
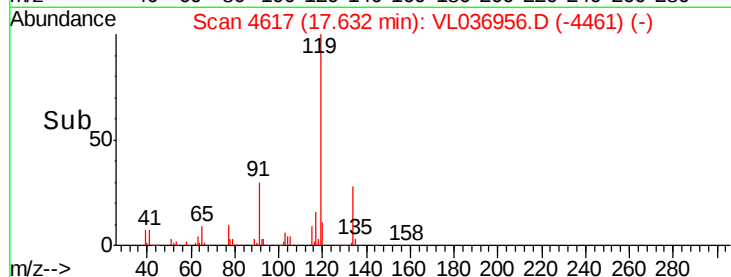
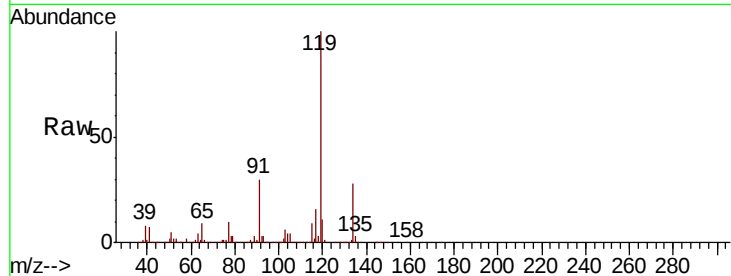


#69
 p-Isopropyltoluene
 Concen: 10.987 ppbv
 RT: 17.63 min Scan# 4617
 Delta R.T. 0.00 min
 Lab File: VL036956.D
 Acq: 18 May 2021 5:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:119 Resp: 7881439

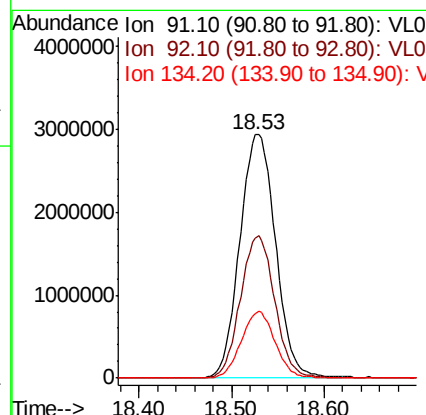
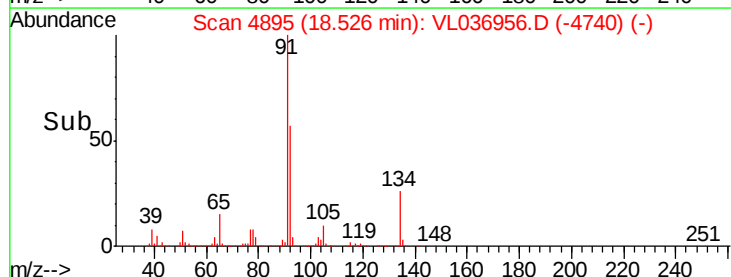
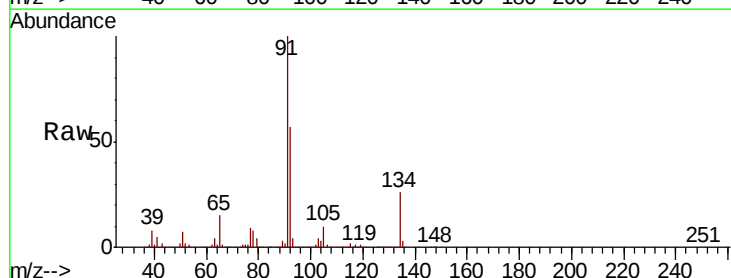
Ion	Ratio	Lower	Upper
119	100		
134	27.3	21.2	31.8
91	28.8	22.2	33.4

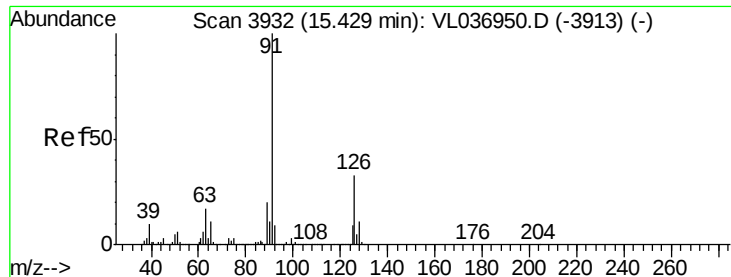


#70
 n-Butylbenzene
 Concen: 10.925 ppbv
 RT: 18.53 min Scan# 4895
 Delta R.T. -0.00 min
 Lab File: VL036956.D
 Acq: 18 May 2021 5:47

Tgt Ion: 91 Resp: 7856531

Ion	Ratio	Lower	Upper
91	100		
92	56.5	44.6	66.8
134	26.1	20.2	30.2





#71

2-Chlorotoluene

Concen: 10.442 ppbv

RT: 15.43 min Scan# 3933

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

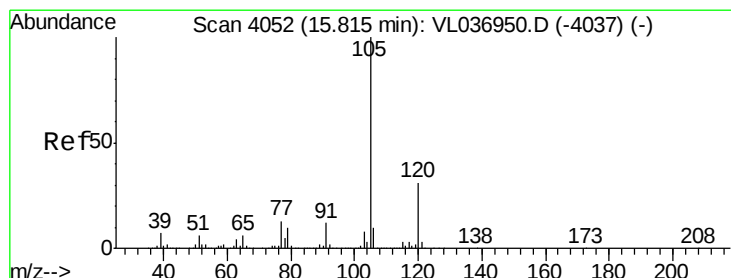
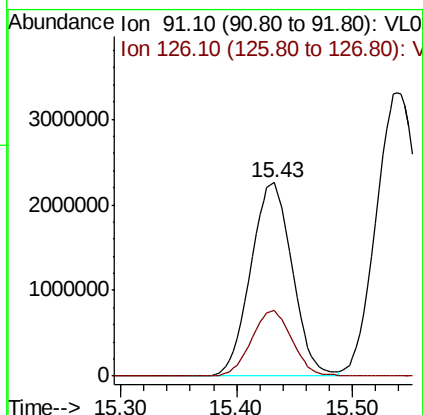
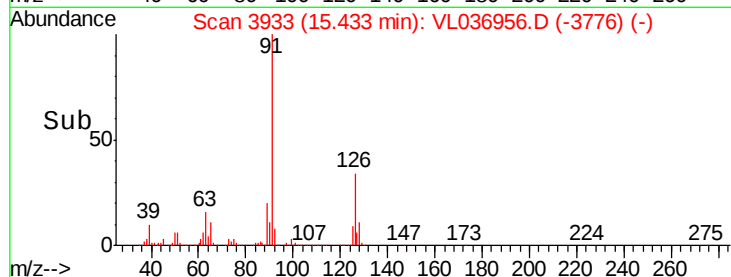
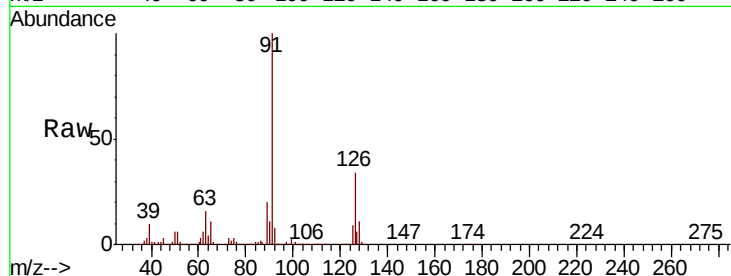
VSTDIC015

Tot Ion: 91 Resp: 5616955

Ion Ratio Lower Upper

91 100

126 33.5 13.1 52.5



#72

4-Ethyltoluene

Concen: 11.469 ppbv

RT: 15.82 min Scan# 4053

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Tgt Ion: 105 Resp: 6555876

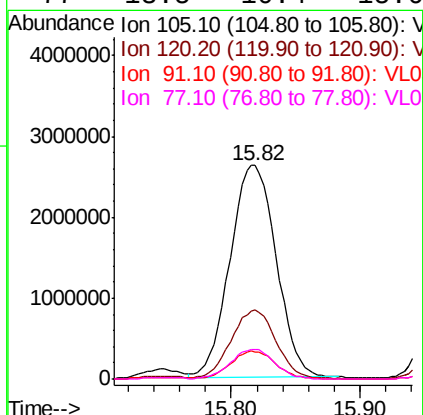
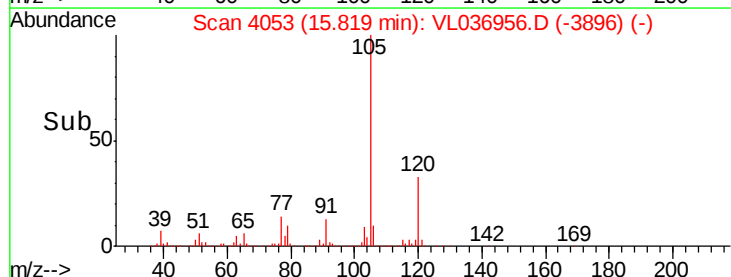
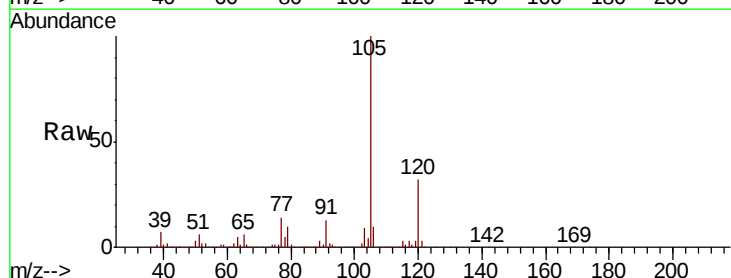
Ion Ratio Lower Upper

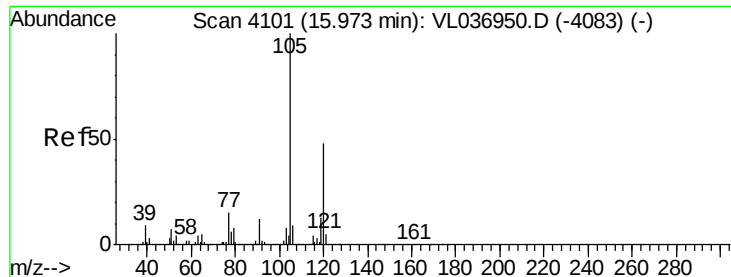
105 100

120 31.6 24.6 37.0

91 12.6 9.8 14.6

77 13.5 10.4 15.6





#73

1,3,5-Trimethylbenzene

Concen: 10.738 ppbv

RT: 15.98 min Scan# 4102

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

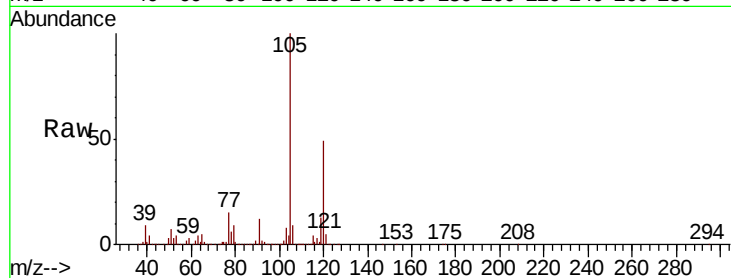
VSTDIC015

Tot Ion:105 Resp: 5997411

Ion Ratio Lower Upper

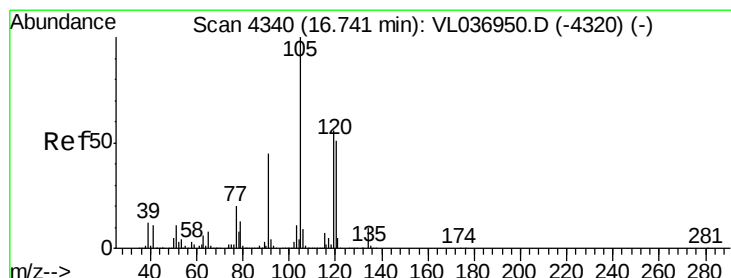
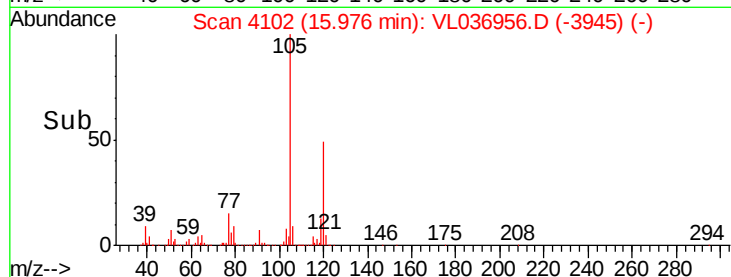
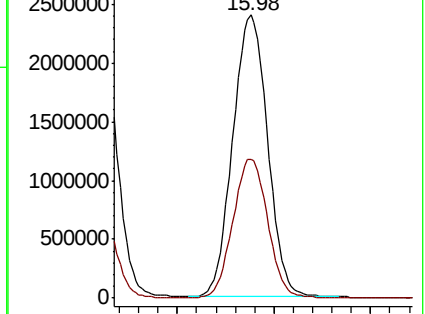
105 100

120 49.1 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: 9.871 ppbv

RT: 16.74 min Scan# 4340

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Tgt Ion:105 Resp: 6053400

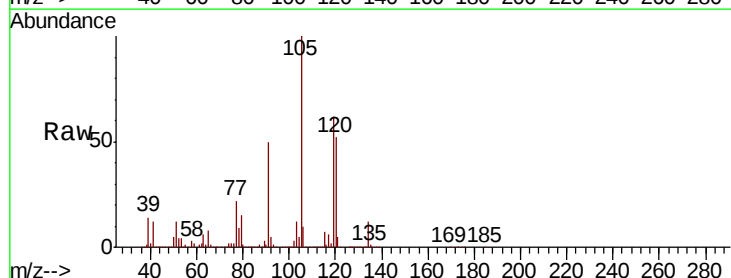
Ion Ratio Lower Upper

105 100

120 52.2 40.6 61.0

91 49.6 37.4 56.0

77 21.9 16.2 24.4

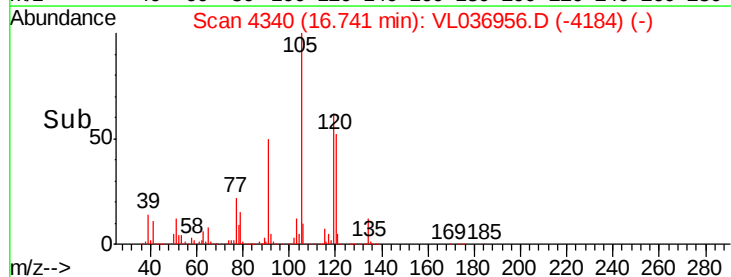
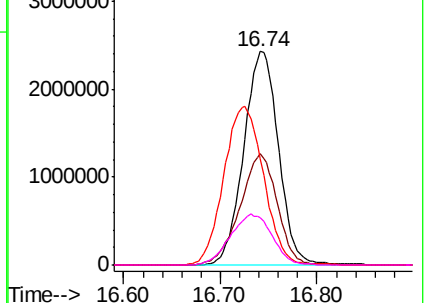


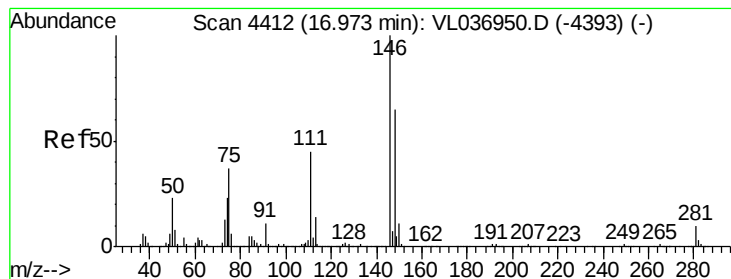
Abundance Ion 105.10 (104.80 to 105.80): V

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: 9.885 ppbv

RT: 16.98 min Scan# 4413

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

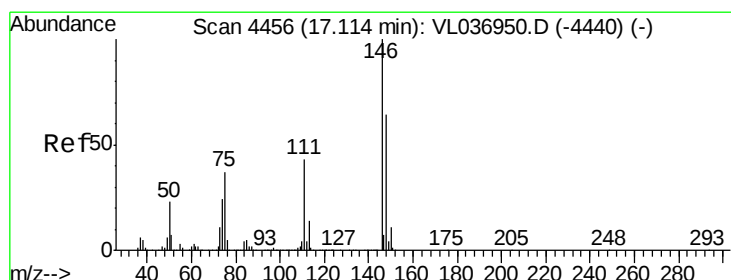
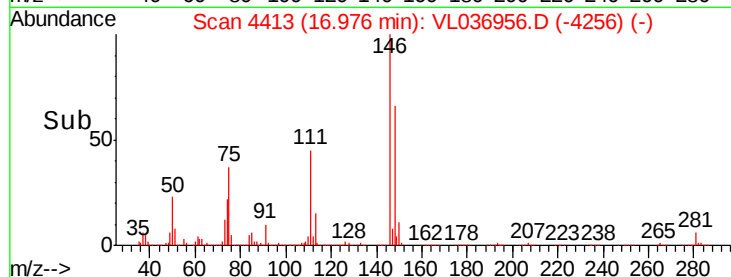
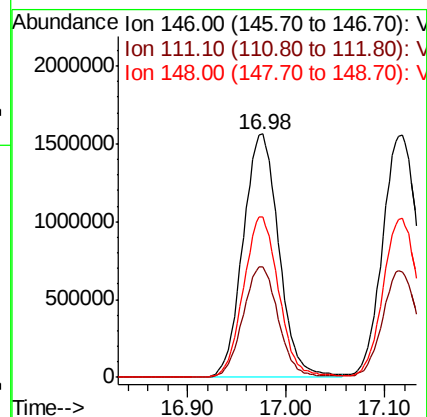
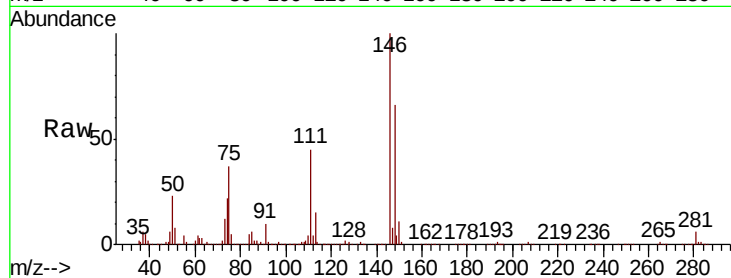
Tot Ion:146 Resp: 3929934

Ion Ratio Lower Upper

146 100

111 44.8 22.2 66.6

148 65.1 32.3 96.8



#76

1,4-Dichlorobenzene

Concen: 10.820 ppbv

RT: 17.12 min Scan# 4457

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

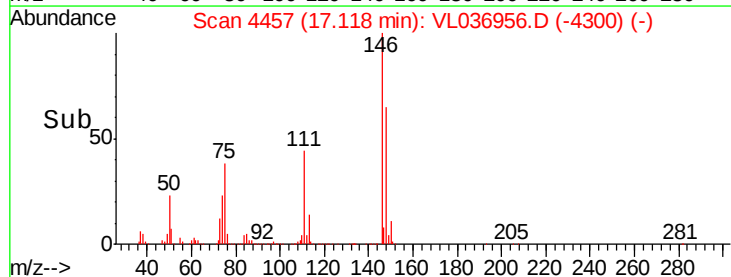
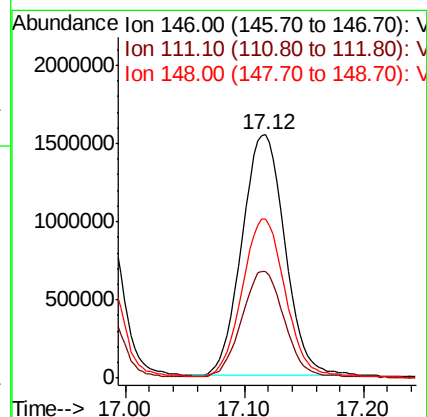
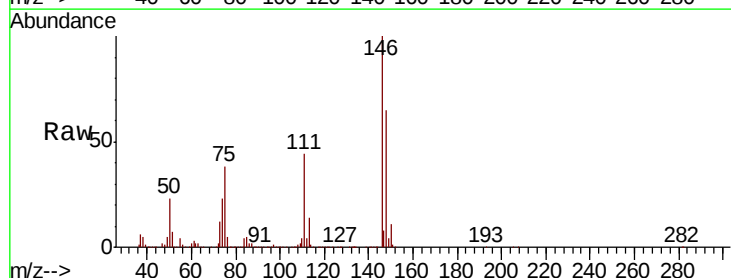
Tgt Ion:146 Resp: 3843444

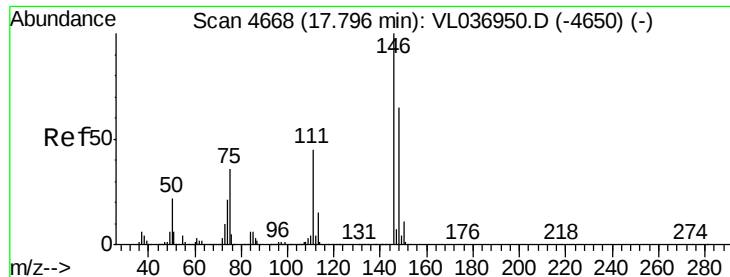
Ion Ratio Lower Upper

146 100

111 44.7 22.6 67.7

148 67.6 33.5 100.5





#77

1,2-Dichlorobenzene

Concen: 10.669 ppbv

RT: 17.80 min Scan# 4668

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

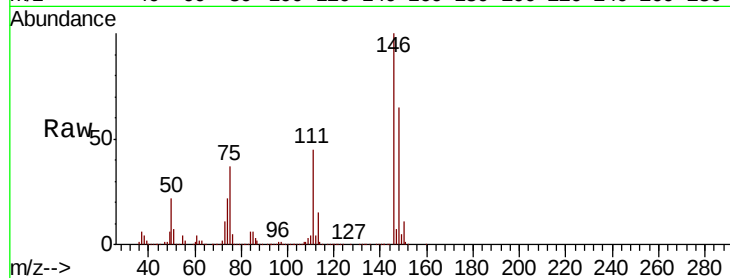
Tot Ion:146 Resp: 3840254

Ion Ratio Lower Upper

146 100

111 46.0 23.1 69.2

148 65.4 32.5 97.4

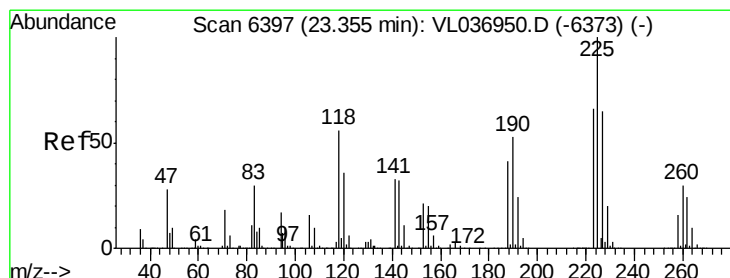
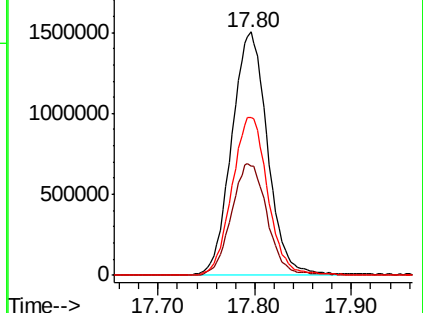
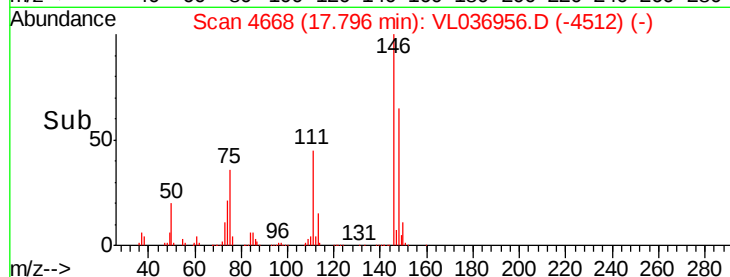


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 8.728 ppbv

RT: 23.36 min Scan# 6397

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

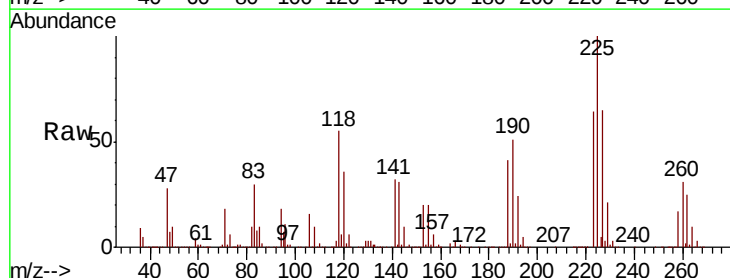
Tgt Ion:225 Resp: 2805758

Ion Ratio Lower Upper

225 100

223 64.2 51.9 77.9

227 65.1 51.8 77.6

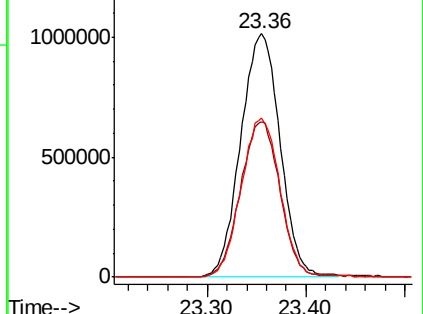
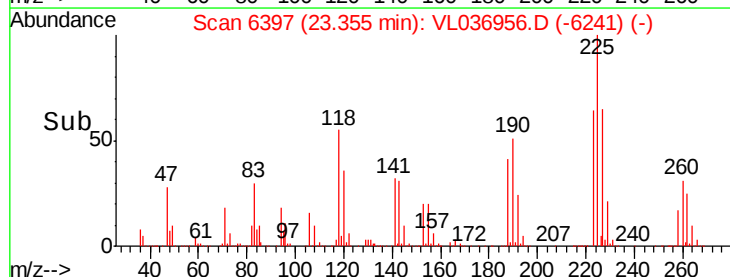


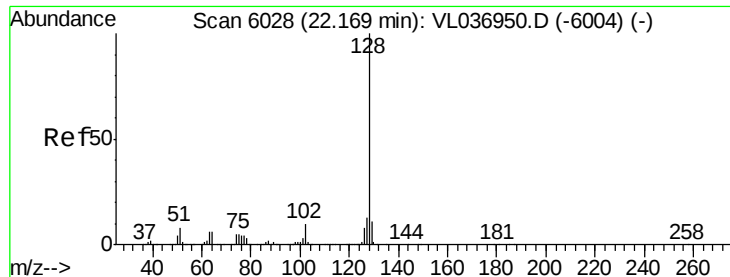
Abundance

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: 22.126 ppbv

RT: 22.17 min Scan# 6027

Delta R.T. -0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

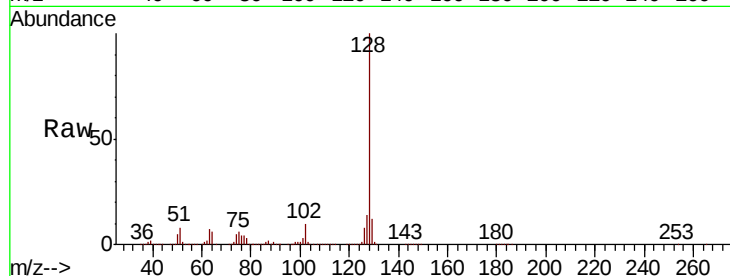
Tot Ion:128 Resp: 6128896

Ion Ratio Lower Upper

128 100

127 13.7 10.4 15.6

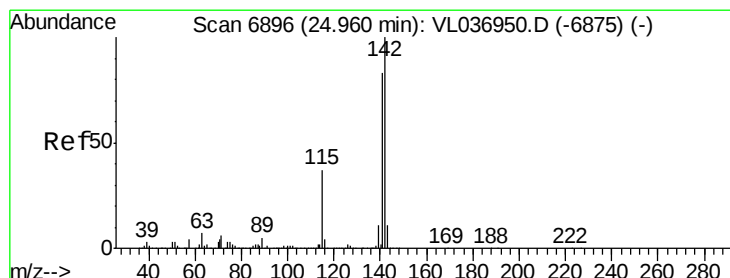
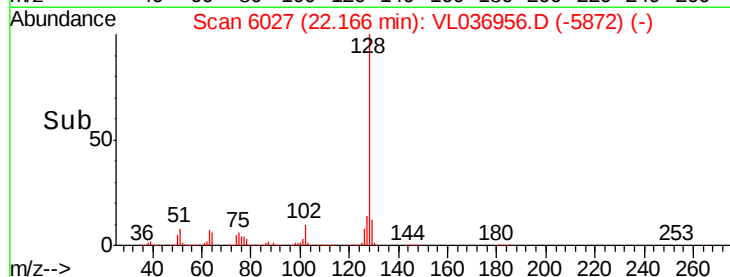
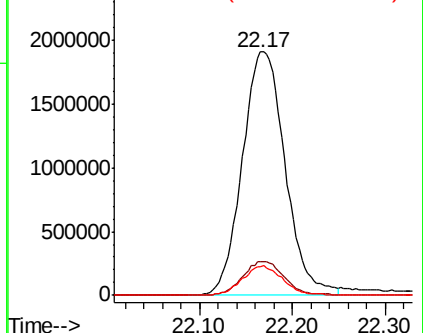
129 12.0 9.0 13.6



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: 39.758 ppbv

RT: 24.96 min Scan# 6895

Delta R.T. -0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

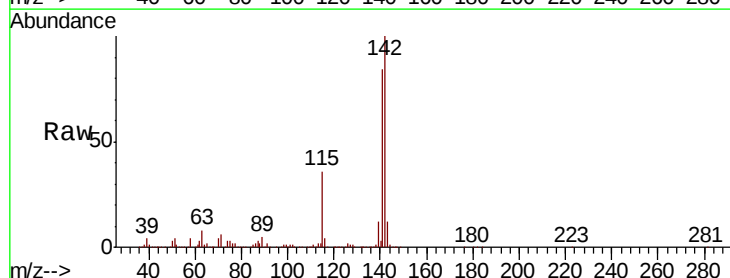
Tgt Ion:142 Resp: 1614026

Ion Ratio Lower Upper

142 100

141 79.9 69.3 103.9

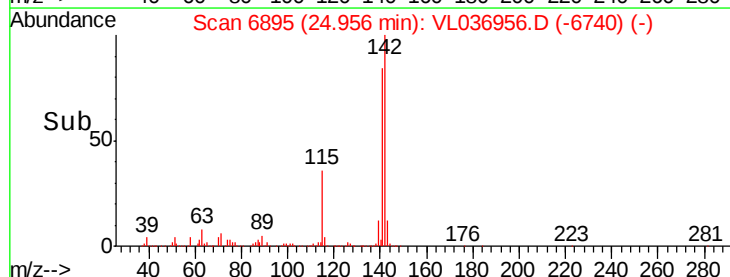
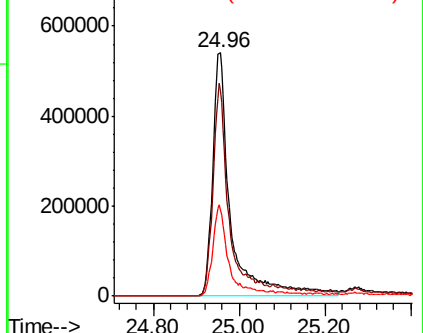
115 36.3 29.1 43.7

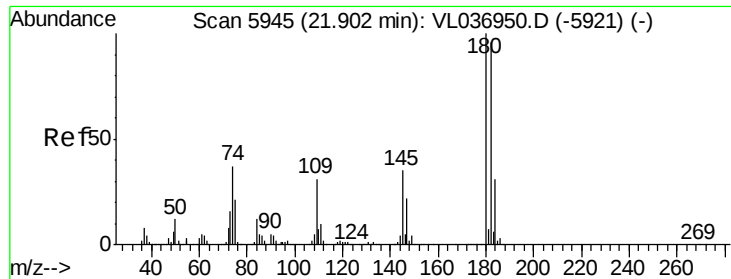


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81

1,2,4-Trichlorobenzene

Concen: 17.271 ppbv

RT: 21.90 min Scan# 5945

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

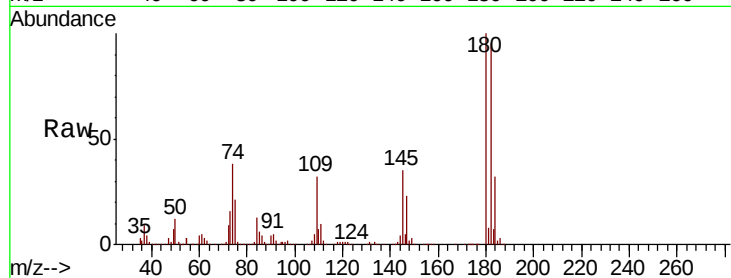
Tot Ion:180 Resp: 3423731

Ion Ratio Lower Upper

180 100

182 99.5 81.7 122.5

184 32.5 24.9 37.3



Abundance Ion 180.00 (179.70 to 180.70): V

1500000 Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

