

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082320\
 Data File : VL035493.D
 Acq On : 23 Aug 2020 9:32
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Quant Time: Aug 23 10:39:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Sun Aug 23 10:33:49 2020
 QLast Update : Sun Aug 23 10:33:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1037564	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4632215	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	4703002	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	3349049	10.17	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	218691	1.137	ppbv 98
3) Chlorodifluoromethane	2.98	51	123870	0.952	ppbv 99
4) Chloromethane	3.13	50	62816	0.927	ppbv 97
5) Vinyl Chloride	3.25	62	74330	0.918	ppbv 100
6) Bromomethane	3.47	94	68009	0.960	ppbv 90
7) Chloroethane	3.55	64	28128	0.943	ppbv 91
8) Dichlorotetrafluoroethane	3.18	85	248214	1.008	ppbv 99
9) Propene	3.00	41	46998	0.899	ppbv 97
10) Heptane	8.13	43	124401	0.907	ppbv 98
11) Trichlorofluoromethane	3.94	101	296374	0.982	ppbv 95
12) 1,1,2-Trichlorotrifluoroet	4.48	101	214086	0.952	ppbv 100
13) Ethanol	3.60	45	14393m	0.751	ppbv
14) Bromoethene	3.74	108	90774	0.914	ppbv 99
15) Acetone	3.85	43	122760	1.028	ppbv 94
16) 1,3-Butadiene	3.32	39	46579	0.962	ppbv 91
17) tert-Butyl alcohol	4.29	59	146051	0.946	ppbv 100
18) 1,1-Dichloroethene	4.29	96	93651	0.943	ppbv 98
19) Isopropyl Alcohol	3.97	45	75538	0.918	ppbv # 95
20) Methylene Chloride	4.34	84	147684	1.533	ppbv 97
21) Allyl Chloride	4.41	41	55744	0.919	ppbv 97
22) trans-1,2-Dichloroethene	4.88	96	96835	0.914	ppbv 97
23) Vinyl Acetate	5.07	43	143714	0.842	ppbv 99
24) 1,1-Dichloroethane	5.01	63	158629	0.931	ppbv 100
25) Ethyl Acetate	5.68	43	230471	0.992	ppbv 98
26) Hexane	5.68	57	142967	1.090	ppbv 94
27) Carbon Disulfide	4.55	76	162344	0.856	ppbv 98
28) Methyl tert-Butyl Ether	5.04	73	214087	0.894	ppbv 99
29) Chloroform	5.75	83	255021	0.968	ppbv 96
30) Cyclohexane	7.13	84	129838	0.892	ppbv 98
31) cis-1,2-Dichloroethene	5.55	61	124009	0.899	ppbv 98
32) 1,1,1-Trichloroethane	6.51	97	234412	0.949	ppbv 99
34) 2-Butanone	5.25	43	138750	0.897	ppbv 99
35) Carbon Tetrachloride	7.02	117	238551	0.968	ppbv 99
36) Benzene	6.89	78	323022	0.950	ppbv 98
37) 1,2-Dichloroethane	6.30	62	147687	0.951	ppbv 100
38) Trichloroethene	7.84	130	172114	0.910	ppbv 98
39) 1,2-Dichloropropane	7.62	63	105887	0.945	ppbv 92
40) 1,4-Dioxane	7.86	88	55806m	0.914	ppbv
41) Tetrahydrofuran	6.06	42	73604	0.862	ppbv 97
42) Bromodichloromethane	7.79	83	238050	0.916	ppbv 95
43) Methyl Methacrylate	8.02	69	118266	0.890	ppbv 98

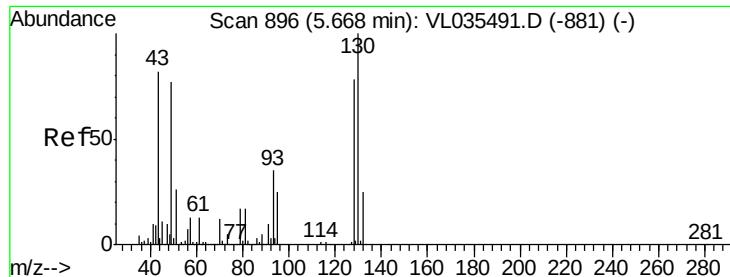
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082320\
 Data File : VL035493.D
 Acq On : 23 Aug 2020 9:32
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Quant Time: Aug 23 10:39:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Sun Aug 23 10:33:49 2020
 QLast Update : Sun Aug 23 10:33:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	433060	0.975	ppbv	99
45) t-1,3-Dichloropropene	9.29	75	105764	0.772	ppbv	93
46) cis-1,3-Dichloropropene	8.71	75	139910	0.820	ppbv	95
47) 1,1,2-Trichloroethane	9.48	97	161081	0.962	ppbv	97
48) Dibromochloromethane	10.31	129	233351	0.831	ppbv	100
49) Bromoform	13.05	173	208996	0.773	ppbv	97
50) 4-Methyl-2-Pentanone	8.76	43	203982	0.919	ppbv	98
51) 2-Hexanone	10.16	43	161056	0.861	ppbv #	96
52) Tetrachloroethene	11.23	164	183410	0.884	ppbv	98
53) Toluene	9.82	91	404654	0.924	ppbv	97
54) 1,2-Dibromoethane	10.62	107	250583	0.922	ppbv	94
56) 1,1,1,2-Tetrachloroethane	12.13	131	205172	0.920	ppbv #	1
57) Chlorobenzene	12.16	112	384952	0.981	ppbv	94
58) Ethyl Benzene	12.72	91	537706	0.947	ppbv	94
59) m/p-Xylene	13.01	91	932958m	1.944	ppbv	
60) o-Xylene	13.70	91	455463	0.976	ppbv	98
61) Styrene	13.54	104	335316	0.890	ppbv	97
62) Isopropylbenzene	14.68	105	759167	0.993	ppbv	94
63) 1,1,2,2-Tetrachloroethane	13.69	83	336525	1.004	ppbv	98
64) n-propylbenzene	15.58	120	219596	0.932	ppbv	76
65) tert-Butylbenzene	16.76	119	720181	0.969	ppbv	96
66) Benzyl Chloride	17.00	91	120538	0.675	ppbv	94
67) sec-Butylbenzene	17.31	105	981535	1.004	ppbv	92
69) p-Isopropyltoluene	17.67	119	845575	0.975	ppbv	93
70) n-Butylbenzene	18.57	91	805310	0.983	ppbv	93
71) 2-Chlorotoluene	15.47	91	532836	0.961	ppbv	97
72) 4-Ethyltoluene	15.85	105	576756	0.942	ppbv	97
73) 1,3,5-Trimethylbenzene	16.01	105	533086	0.936	ppbv	94
74) 1,2,4-Trimethylbenzene	16.78	105	602771	0.974	ppbv	98
75) 1,3-Dichlorobenzene	17.01	146	449933	0.941	ppbv	97
76) 1,4-Dichlorobenzene	17.16	146	444282m	0.943	ppbv	
77) 1,2-Dichlorobenzene	17.84	146	439416	0.939	ppbv	97
78) Hexachloro-1,3-Butadiene	23.40	225	305273	0.825	ppbv	99
79) Naphthalene	22.23	128	730211	0.838	ppbv #	94
80) Naphthalene, 2-methyl-	24.99	142	262283	0.728	ppbv	99
81) 1,2,4-Trichlorobenzene	21.96	180	431871	0.822	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.00 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

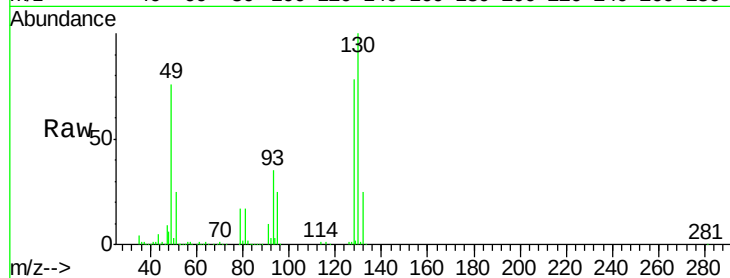
Tot Ion: 49 Resp: 1037564

Ion Ratio Lower Upper

49 100

128 102.4 51.6 154.9

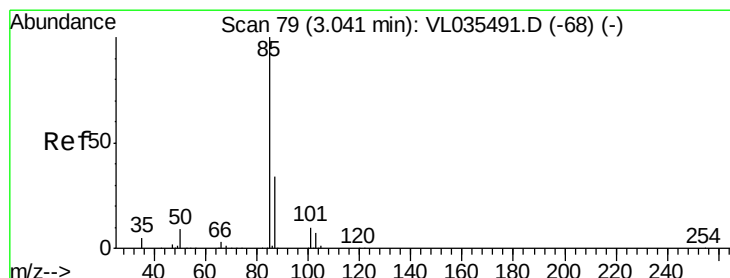
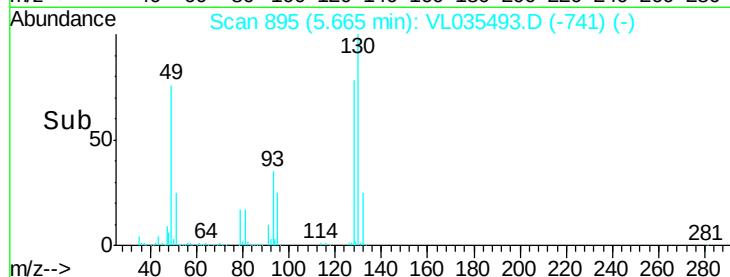
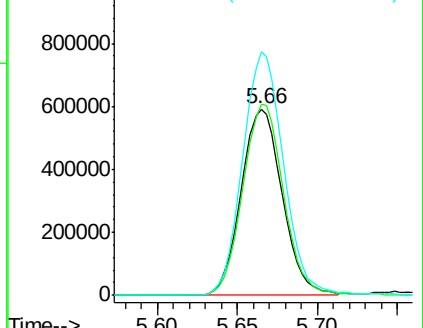
130 131.3 66.1 198.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 1.137 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.00 min

Lab File: VL035493.D

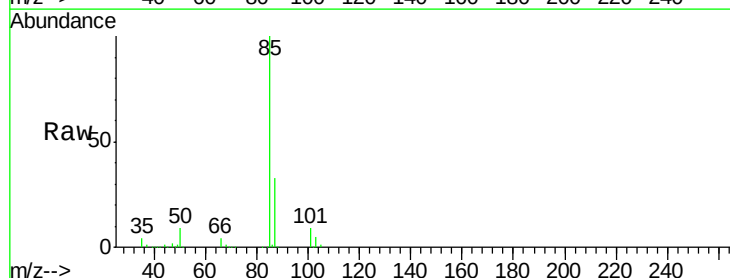
Acq: 23 Aug 2020 9:32

Tgt Ion: 85 Resp: 218691

Ion Ratio Lower Upper

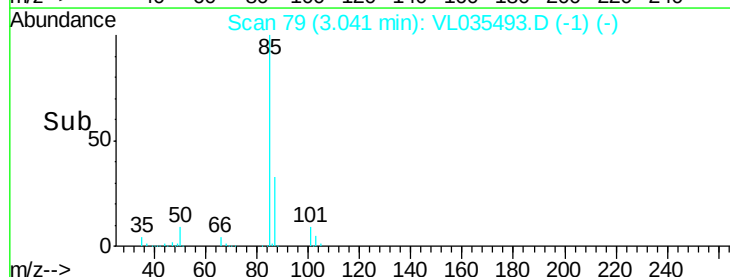
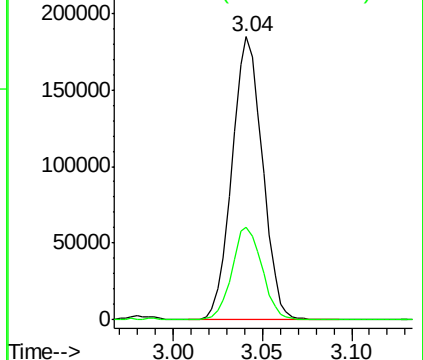
85 100

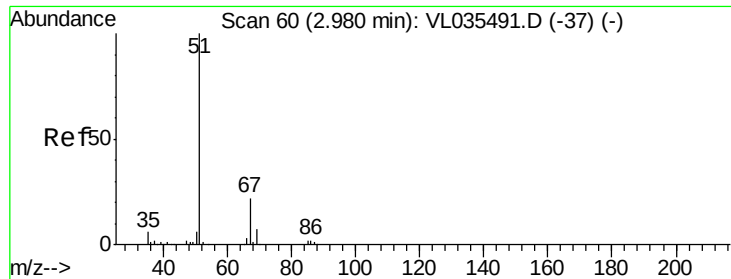
87 32.7 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

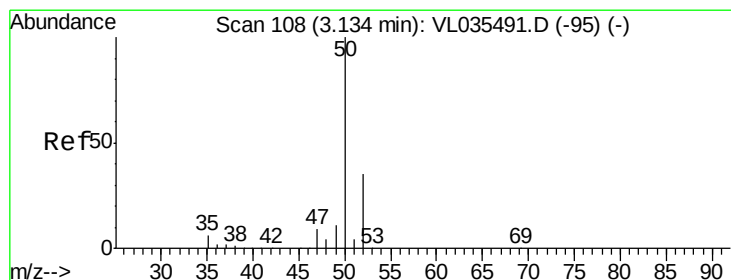
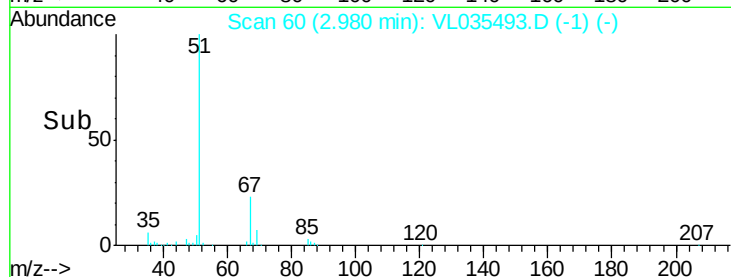
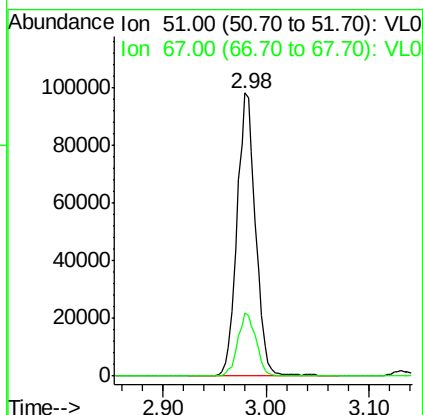
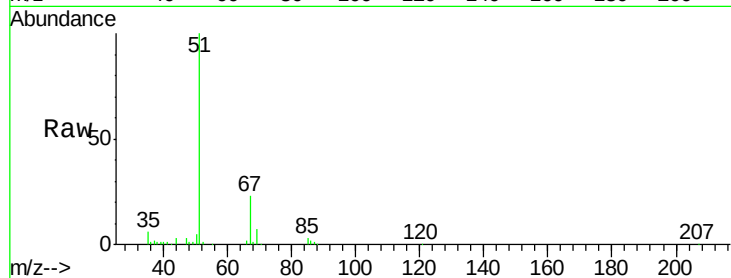




#3
Chlorodifluoromethane
Concen: 0.952 ppbv
RT: 2.98 min Scan# 60
Delta R.T. -0.00 min
Lab File: VL035493.D
Acq: 23 Aug 2020 9:32

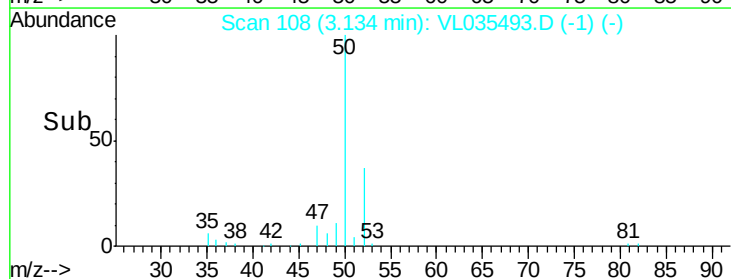
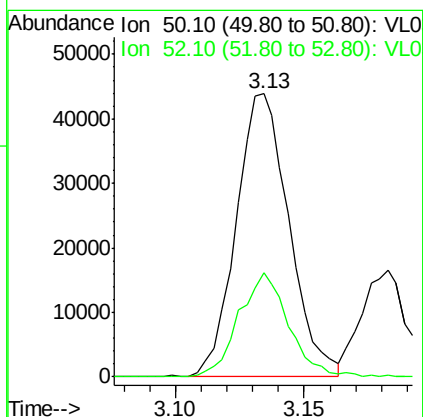
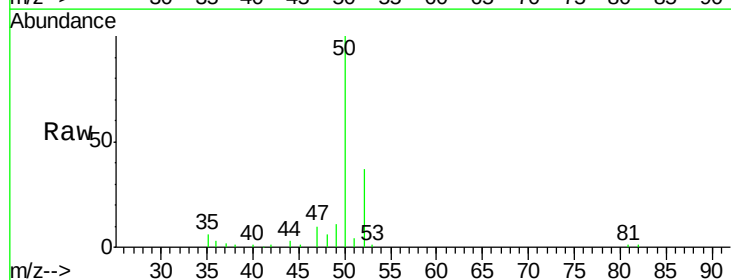
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

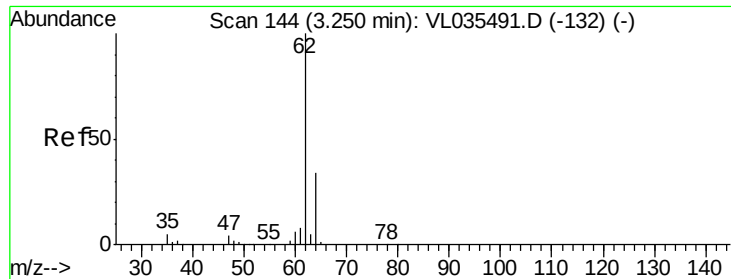
Tot Ion: 51 Resp: 123870
Ion Ratio Lower Upper
51 100
67 22.0 17.9 26.9



#4
Chloromethane
Concen: 0.927 ppbv
RT: 3.13 min Scan# 108
Delta R.T. -0.00 min
Lab File: VL035493.D
Acq: 23 Aug 2020 9:32

Tgt Ion: 50 Resp: 62816
Ion Ratio Lower Upper
50 100
52 36.7 28.2 42.2





#5

Vinyl Chloride

Concen: 0.918 ppbv

RT: 3.25 min Scan# 144

Delta R.T. -0.00 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

Instrument :

MSVOA_L

ClientSampleId :

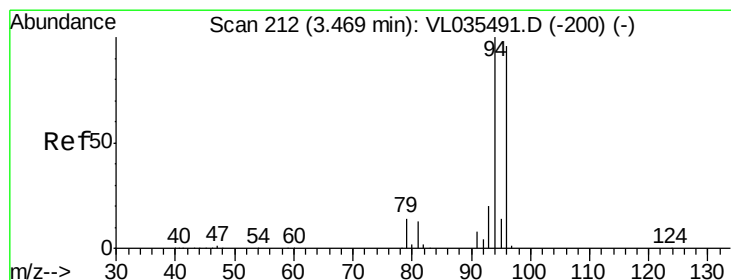
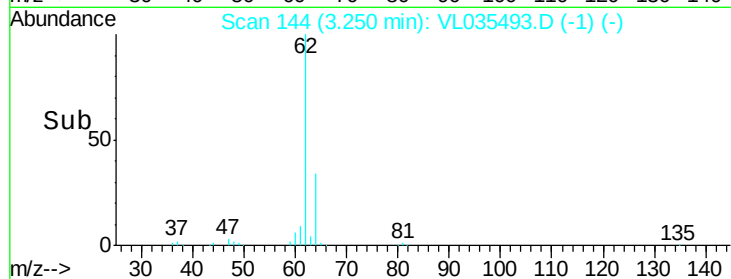
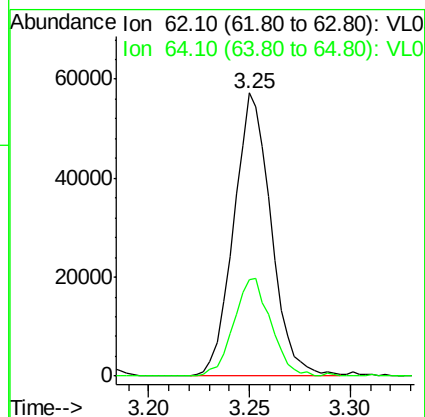
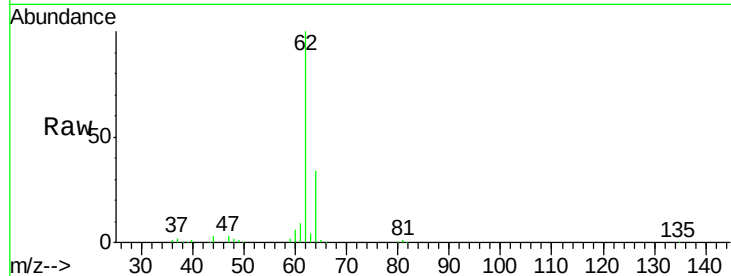
VSTDIC001

Tot Ion: 62 Resp: 74330

Ion Ratio Lower Upper

62 100

64 34.0 27.1 40.7



#6

Bromomethane

Concen: 0.960 ppbv

RT: 3.47 min Scan# 212

Delta R.T. -0.00 min

Lab File: VL035493.D

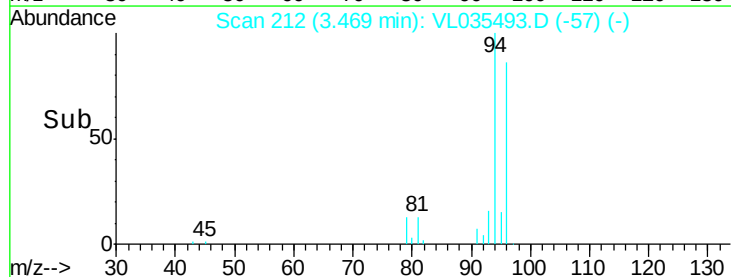
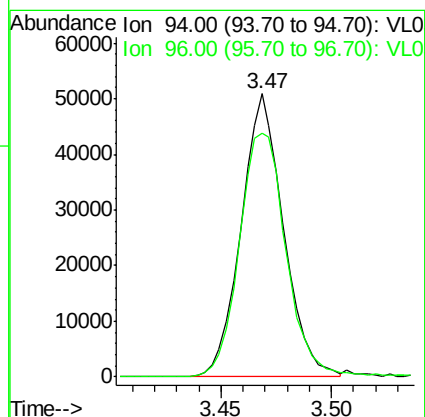
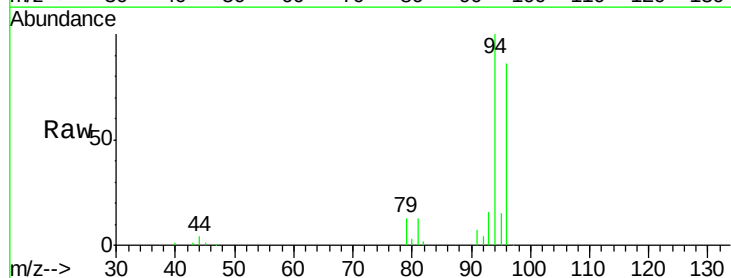
Acq: 23 Aug 2020 9:32

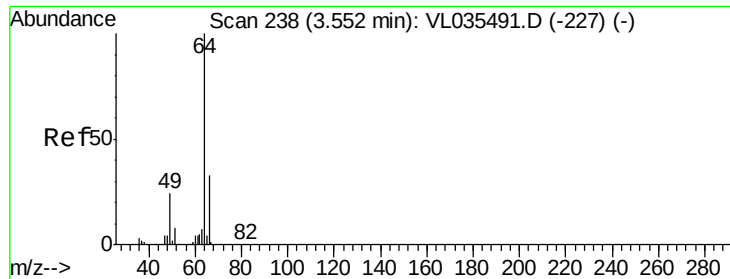
Tgt Ion: 94 Resp: 68009

Ion Ratio Lower Upper

94 100

96 85.9 76.6 115.0





#7

Chloroethane

Concen: 0.943 ppbv

RT: 3.55 min Scan# 238

Delta R.T. -0.00 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

Instrument :

MSVOA_L

ClientSampleId :

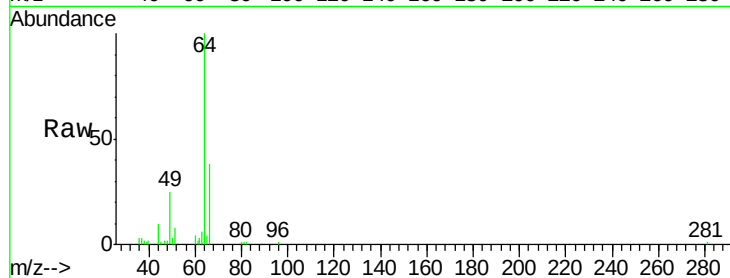
VSTDIC001

Tot Ion: 64 Resp: 28128

Ion Ratio Lower Upper

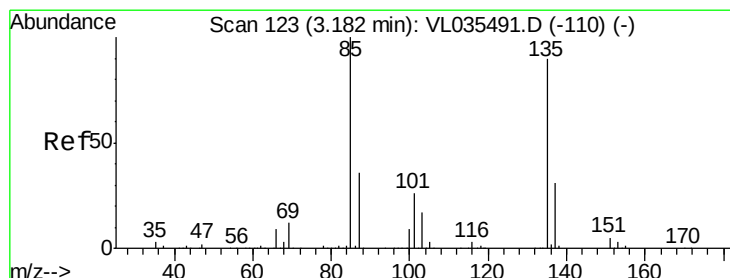
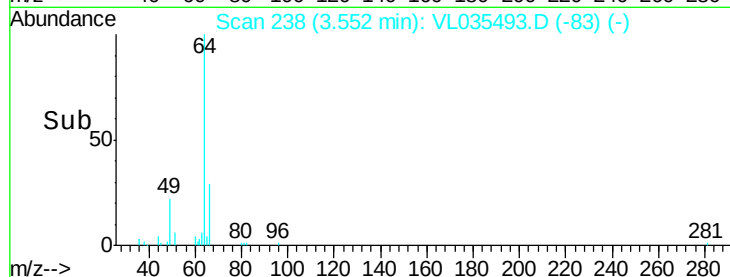
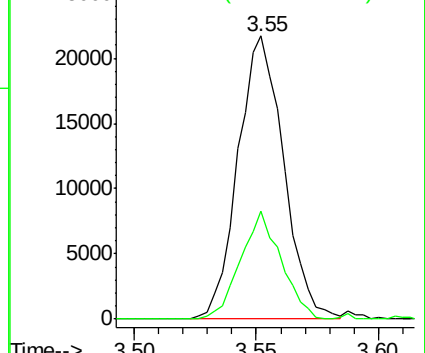
64 100

66 38.0 26.2 39.2



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 1.008 ppbv

RT: 3.18 min Scan# 122

Delta R.T. -0.00 min

Lab File: VL035493.D

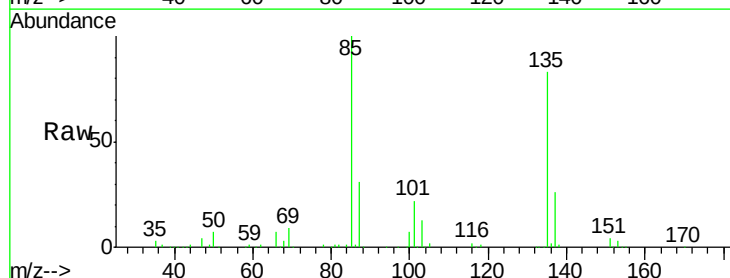
Acq: 23 Aug 2020 9:32

Tgt Ion: 85 Resp: 248214

Ion Ratio Lower Upper

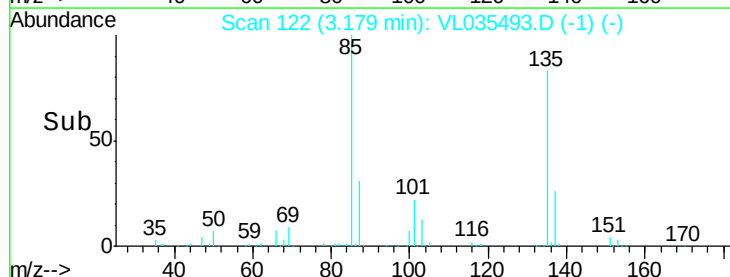
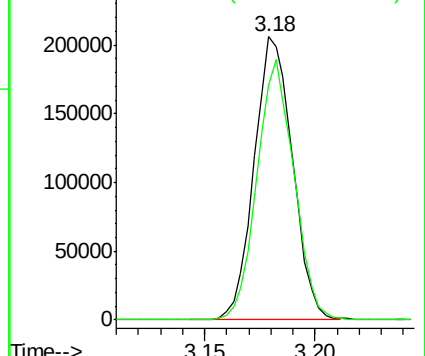
85 100

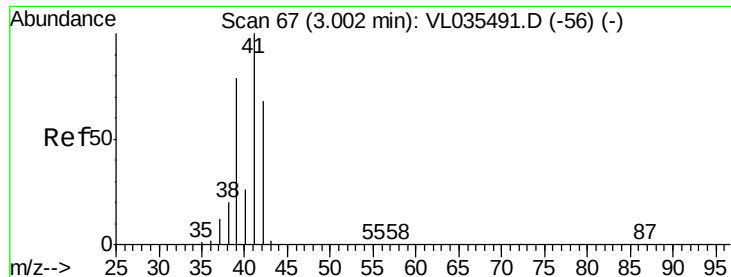
135 88.8 71.8 107.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.899 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.00 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

Instrument :

MSVOA_L

ClientSampleId :

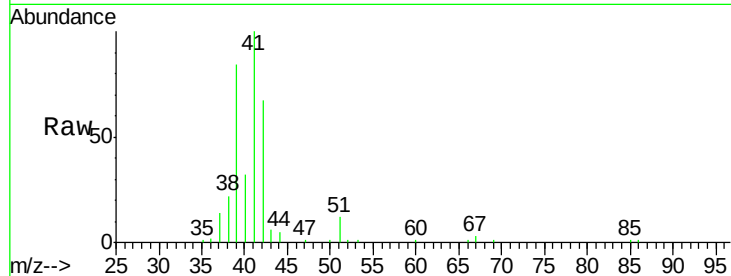
VSTDIC001

Tot Ion: 41 Resp: 46998

Ion Ratio Lower Upper

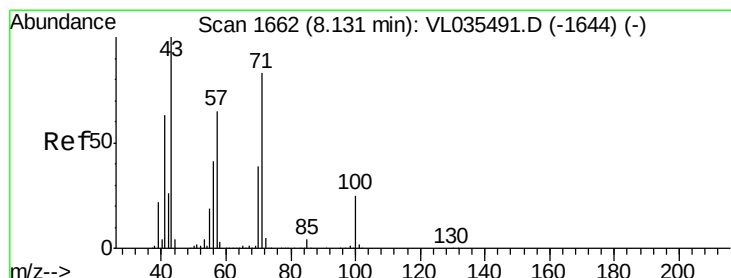
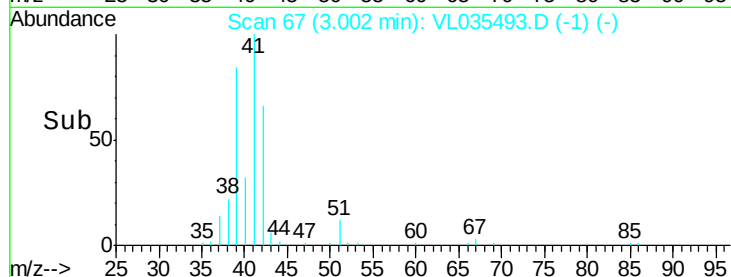
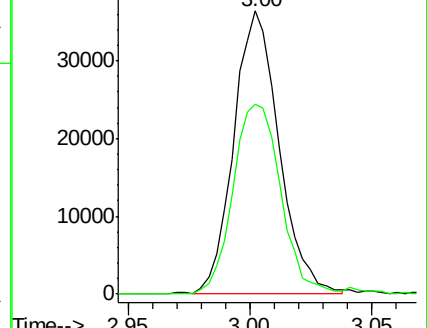
41 100

42 71.4 55.3 82.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.907 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. -0.00 min

Lab File: VL035493.D

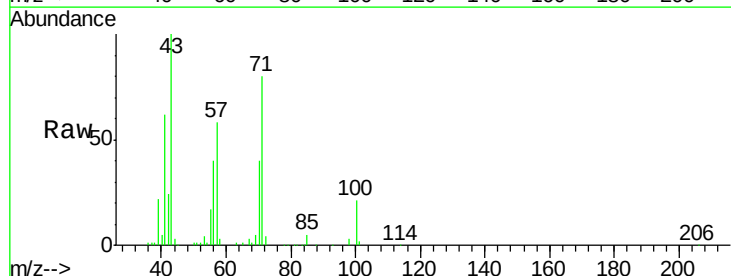
Acq: 23 Aug 2020 9:32

Tgt Ion: 43 Resp: 124401

Ion Ratio Lower Upper

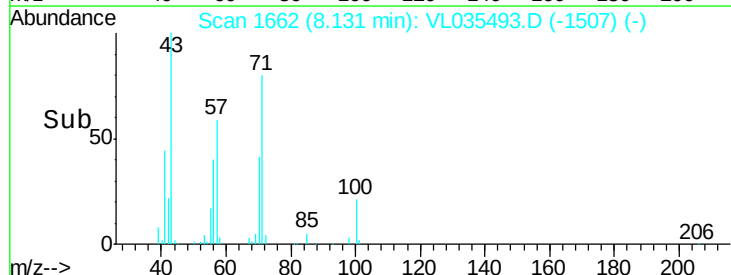
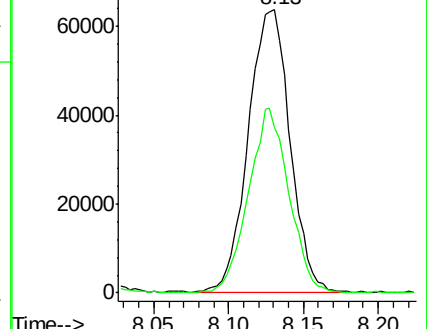
43 100

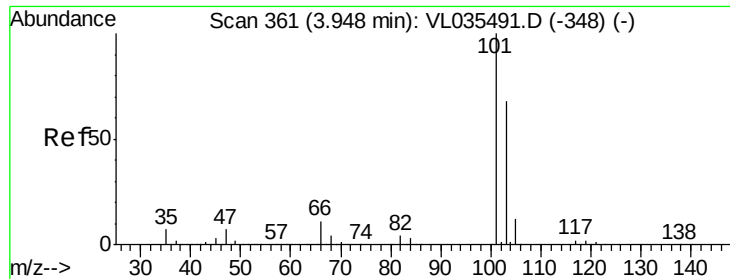
57 63.1 51.4 77.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

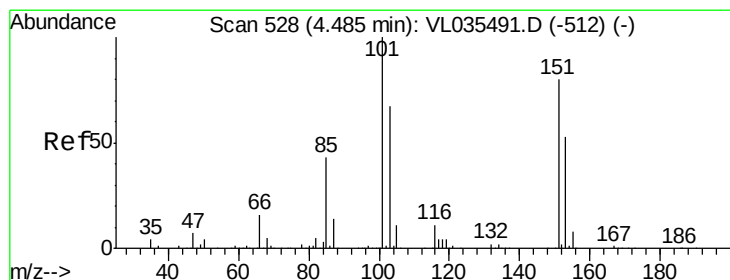
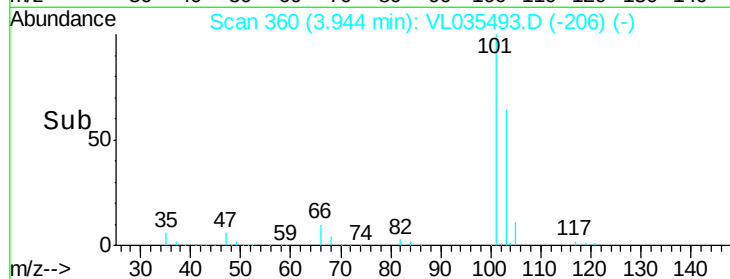
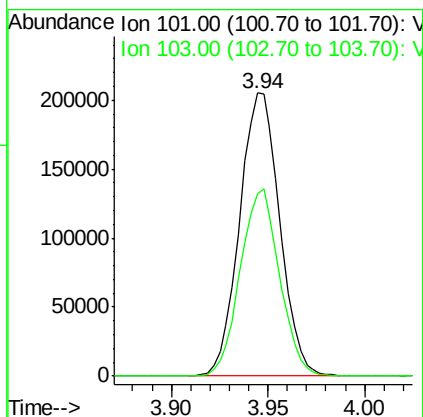
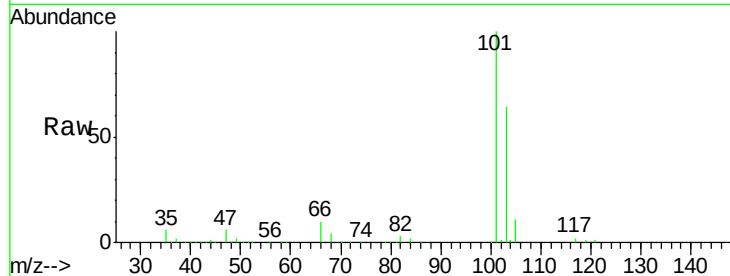




#11
 Trichlorofluoromethane
 Concen: 0.982 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. -0.00 min
 Lab File: VL035493.D
 Acq: 23 Aug 2020 9:32

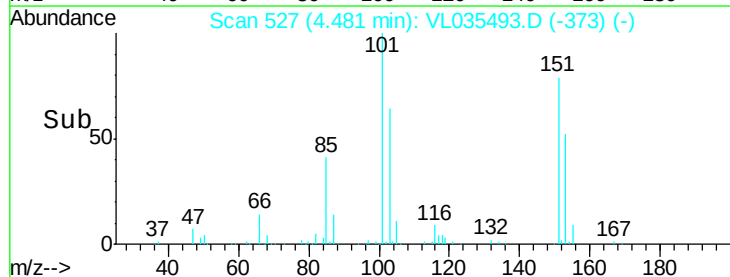
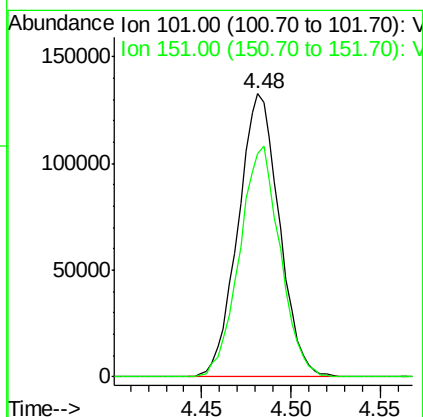
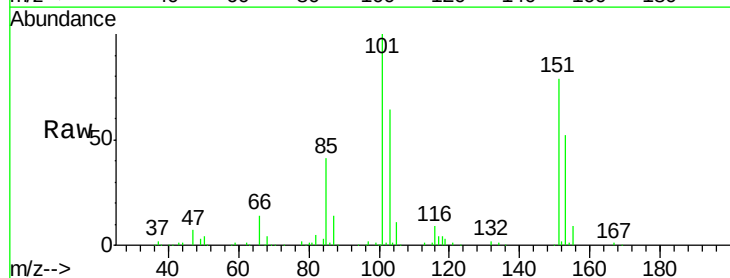
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

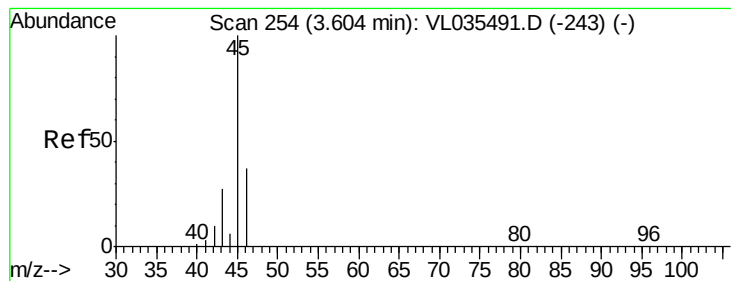
Tot Ion:101 Resp: 296374
 Ion Ratio Lower Upper
 101 100
 103 64.1 54.4 81.6



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.952 ppbv
 RT: 4.48 min Scan# 527
 Delta R.T. -0.00 min
 Lab File: VL035493.D
 Acq: 23 Aug 2020 9:32

Tgt Ion:101 Resp: 214086
 Ion Ratio Lower Upper
 101 100
 151 80.4 64.1 96.1





#13

Ethanol

Concen: 0.751 ppbv m

RT: 3.60 min Scan# 253

Delta R.T. -0.00 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

Instrument :

MSVOA_L

ClientSampleId :

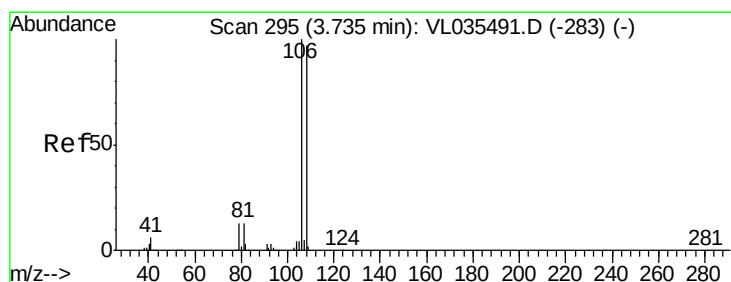
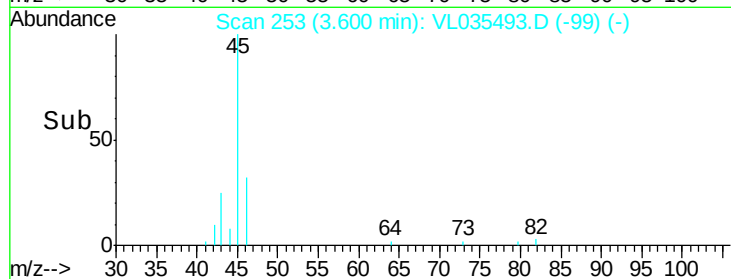
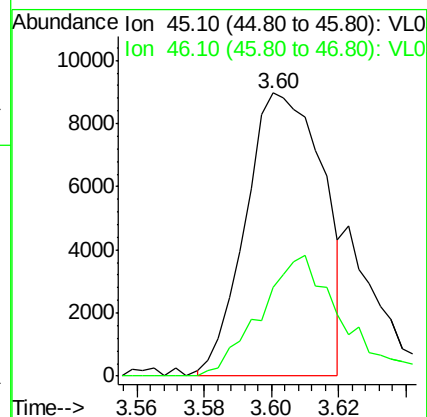
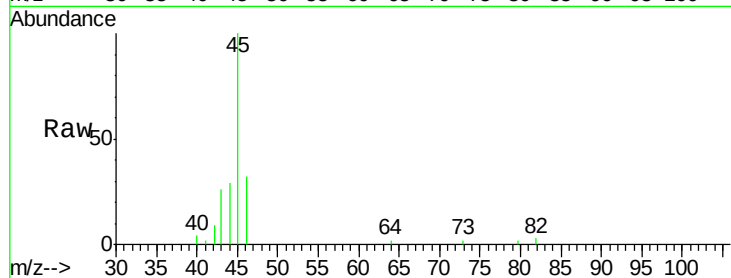
VSTDIC001

Tot Ion: 45 Resp: 14393

Ion Ratio Lower Upper

45 100

46 46.7 14.4 57.6



#14

Bromoethene

Concen: 0.914 ppbv

RT: 3.74 min Scan# 295

Delta R.T. -0.00 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

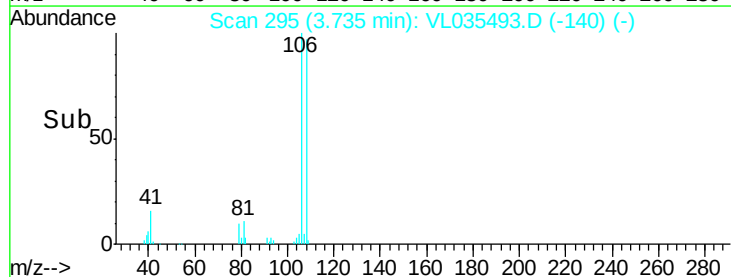
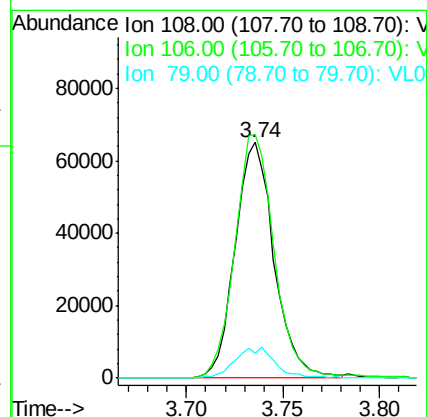
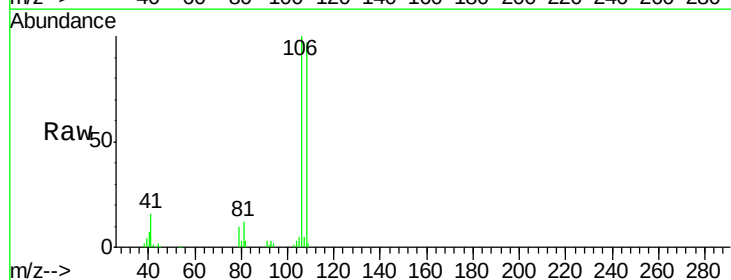
Tgt Ion: 108 Resp: 90774

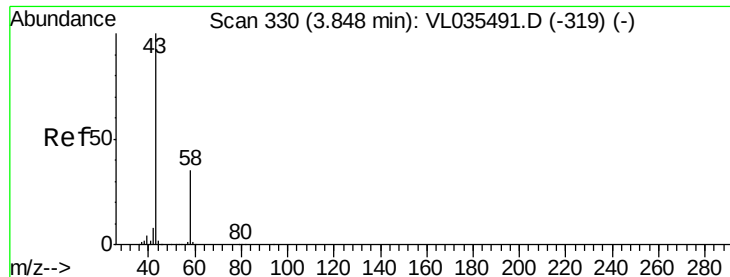
Ion Ratio Lower Upper

108 100

106 105.8 83.6 125.4

79 14.4 10.7 16.1





#15

Acetone

Concen: 1.028 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.01 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

Instrument :

MSVOA_L

ClientSampleId :

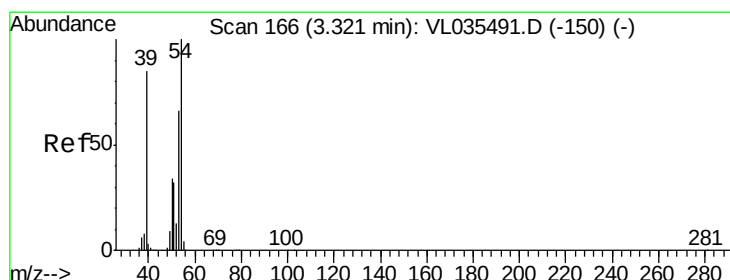
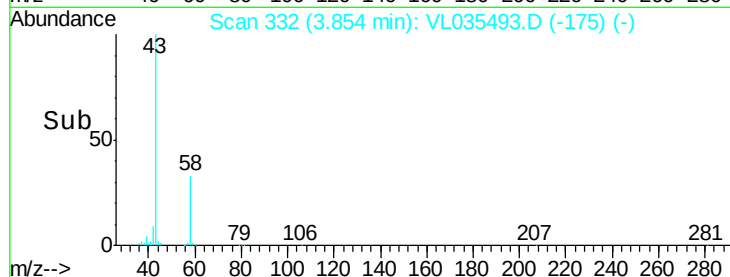
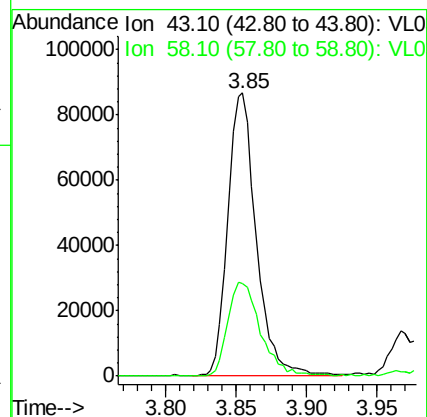
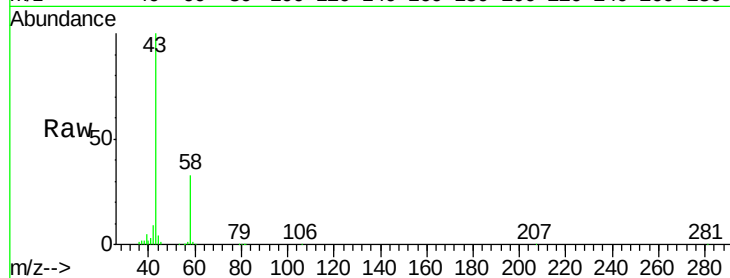
VSTDIC001

Tot Ion: 43 Resp: 122760

Ion Ratio Lower Upper

43 100

58 38.4 27.8 41.6



#16

1,3-Butadiene

Concen: 0.962 ppbv

RT: 3.32 min Scan# 166

Delta R.T. -0.00 min

Lab File: VL035493.D

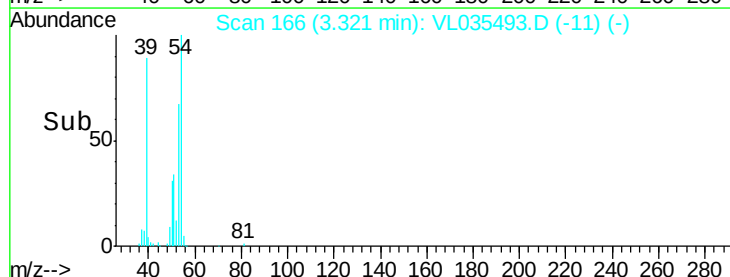
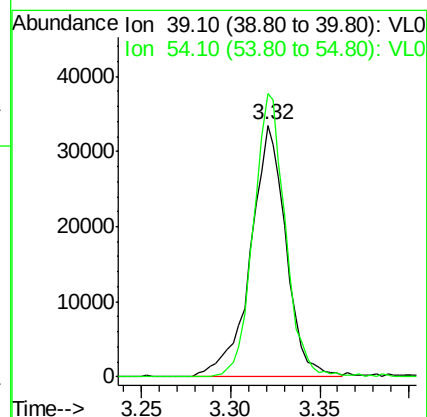
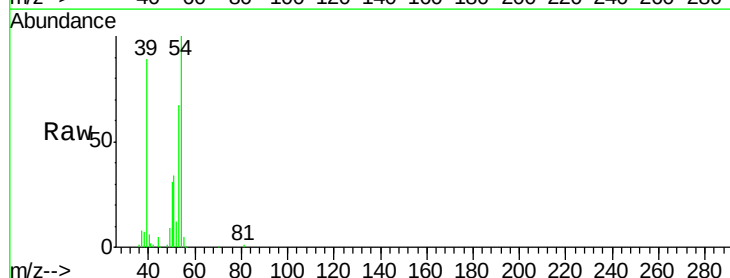
Acq: 23 Aug 2020 9:32

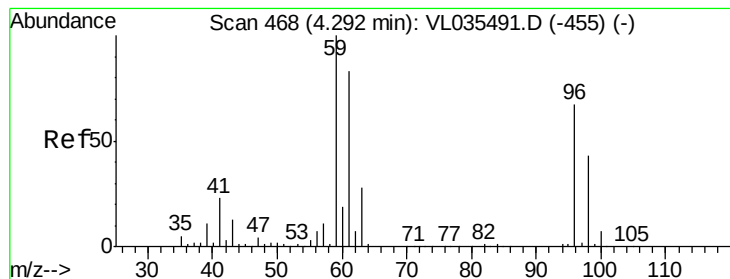
Tgt Ion: 39 Resp: 46579

Ion Ratio Lower Upper

39 100

54 101.7 89.3 133.9





#17

tert-Butyl alcohol

Concen: 0.946 ppbv

RT: 4.29 min Scan# 469

Delta R.T. 0.00 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

Instrument :

MSVOA_L

ClientSampleId :

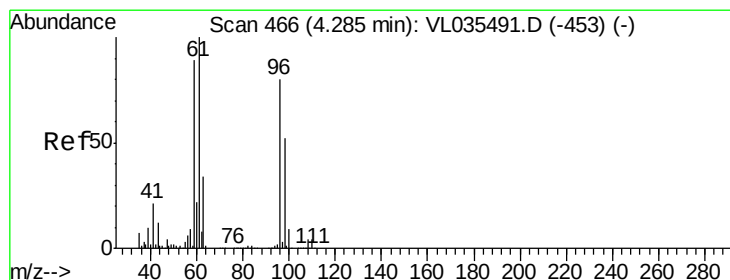
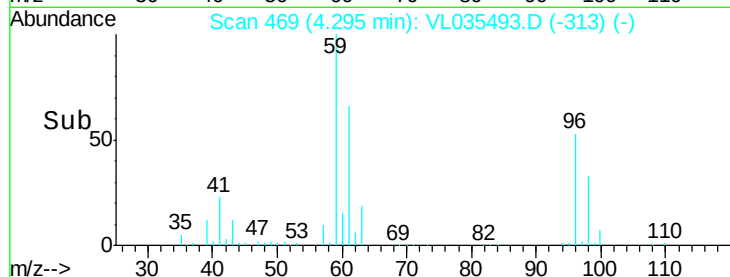
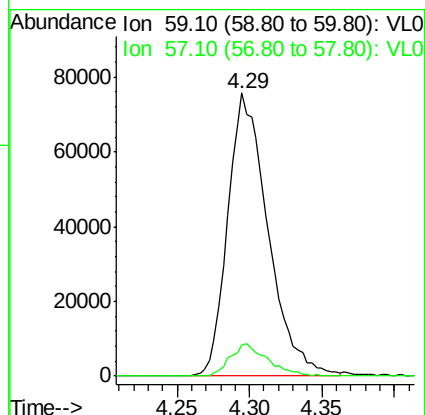
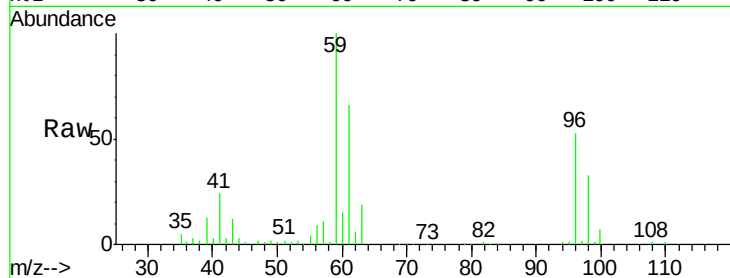
VSTDIC001

Tot Ion: 59 Resp: 146051

Ion Ratio Lower Upper

59 100

57 10.7 8.4 12.6



#18

1,1-Dichloroethene

Concen: 0.943 ppbv

RT: 4.29 min Scan# 466

Delta R.T. -0.00 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

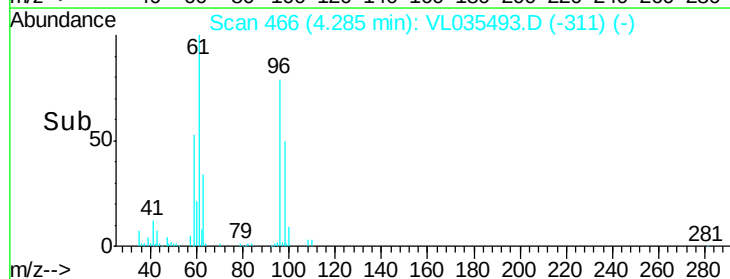
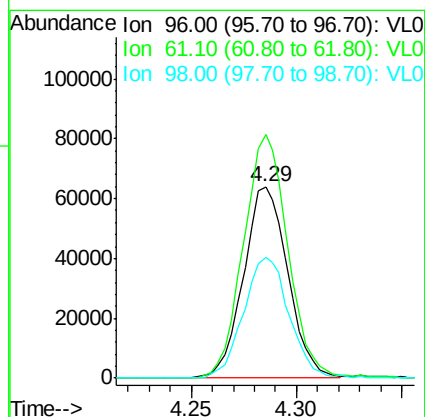
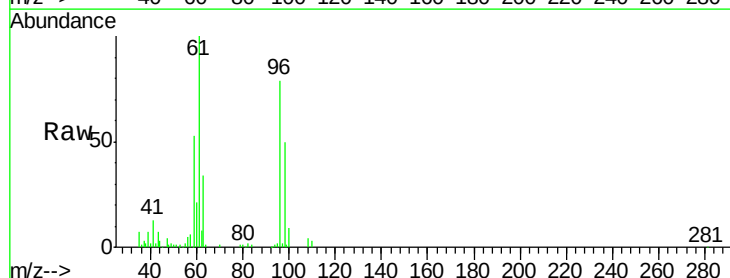
Tgt Ion: 96 Resp: 93651

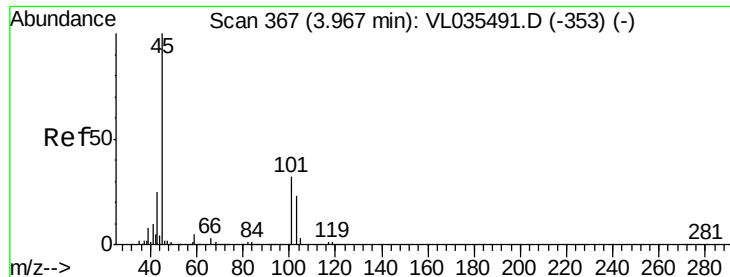
Ion Ratio Lower Upper

96 100

61 127.0 99.9 149.9

98 63.2 52.2 78.4





#19

Isopropyl Alcohol

Concen: 0.918 ppbv

RT: 3.97 min Scan# 368

Delta R.T. 0.00 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

Instrument :

MSVOA_L

ClientSampleId :

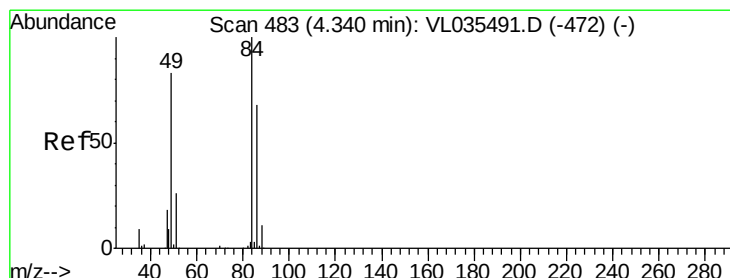
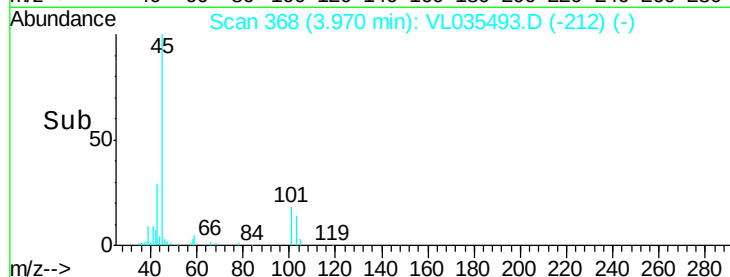
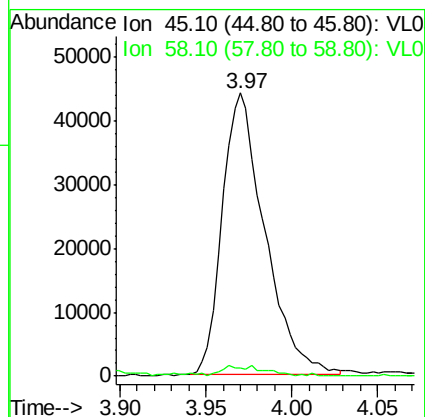
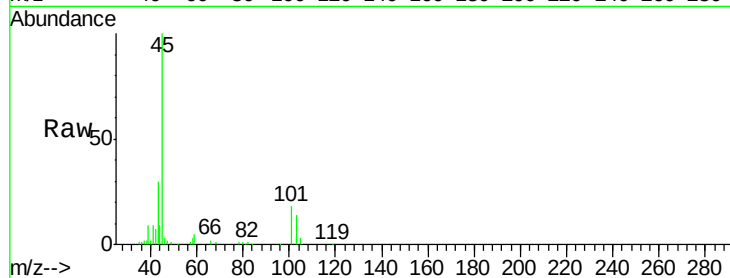
VSTDIC001

Tot Ion: 45 Resp: 75538

Ion Ratio Lower Upper

45 100

58 4.2 1.8 2.8#



#20

Methylene Chloride

Concen: 1.533 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.00 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

Tgt Ion: 84 Resp: 147684

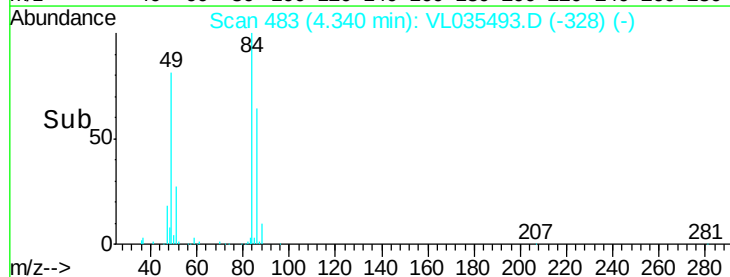
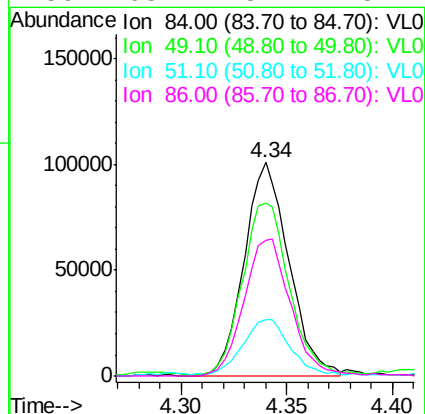
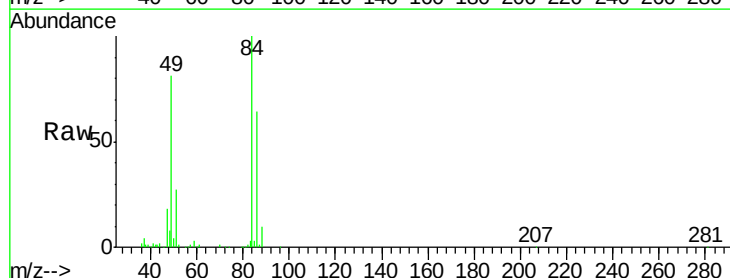
Ion Ratio Lower Upper

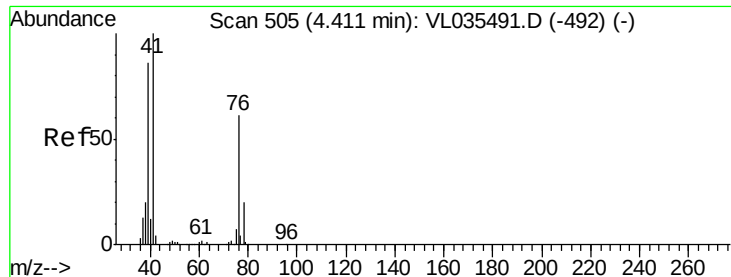
84 100

49 80.8 66.3 99.5

51 26.1 21.1 31.7

86 63.7 54.2 81.4

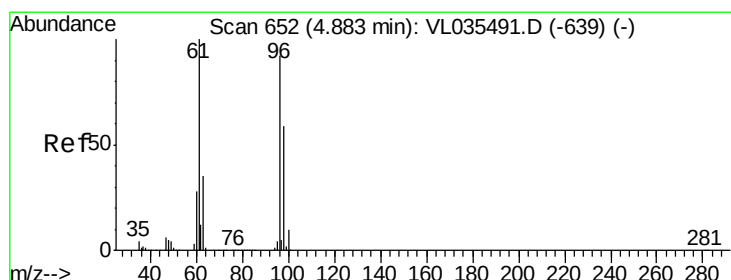
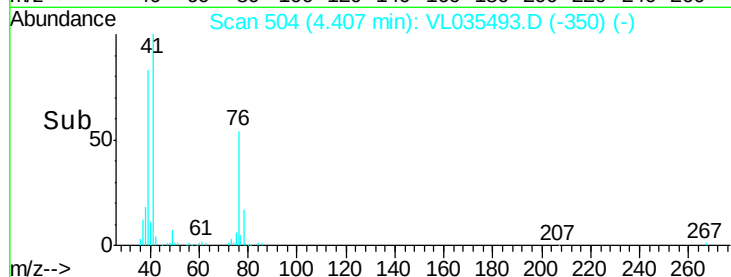
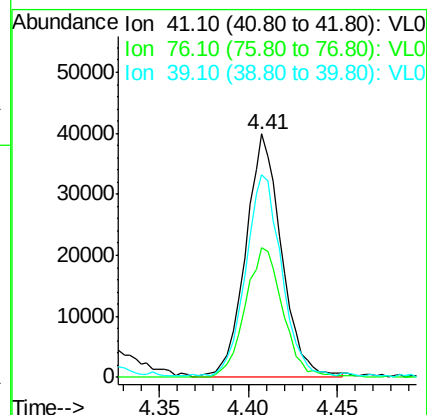
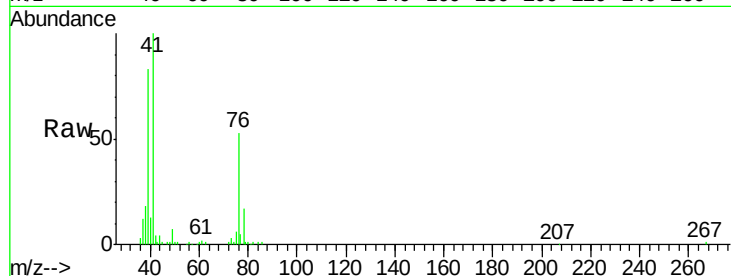




#21
 Allvl Chloride
 Concen: 0.919 ppbv
 RT: 4.41 min Scan# 504
 Delta R.T. -0.00 min
 Lab File: VL035493.D
 Acq: 23 Aug 2020 9:32

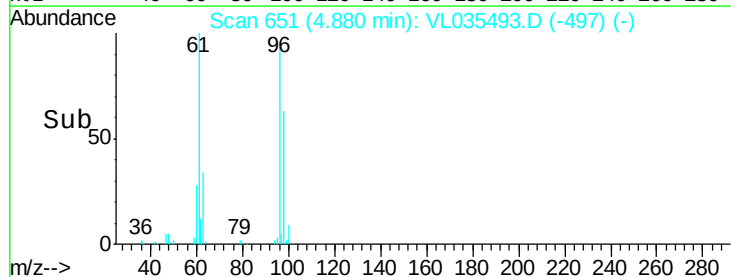
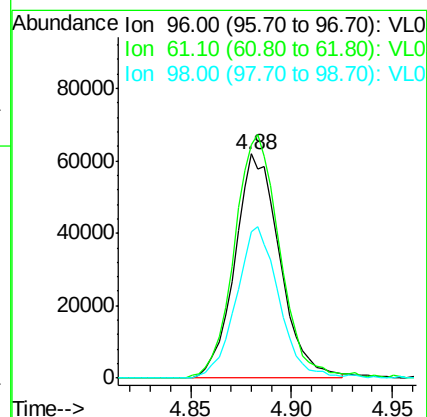
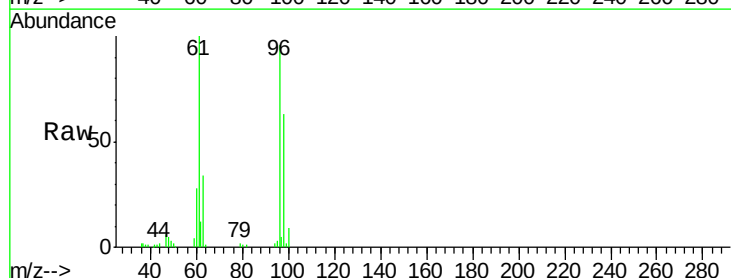
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

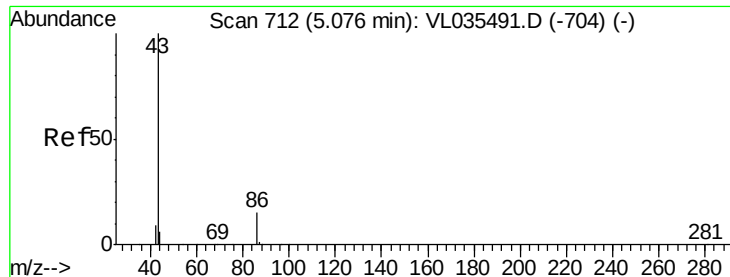
Tot Ion: 41 Resp: 55744
 Ion Ratio Lower Upper
 41 100
 76 56.0 47.3 70.9
 39 83.7 69.0 103.4



#22
 trans-1,2-Dichloroethene
 Concen: 0.914 ppbv
 RT: 4.88 min Scan# 651
 Delta R.T. -0.00 min
 Lab File: VL035493.D
 Acq: 23 Aug 2020 9:32

Tgt Ion: 96 Resp: 96835
 Ion Ratio Lower Upper
 96 100
 61 103.1 86.5 129.7
 98 65.1 51.4 77.2





#23

Vinyl Acetate

Concen: 0.842 ppbv

RT: 5.07 min Scan# 711

Delta R.T. -0.00 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 43 Resp: 143714

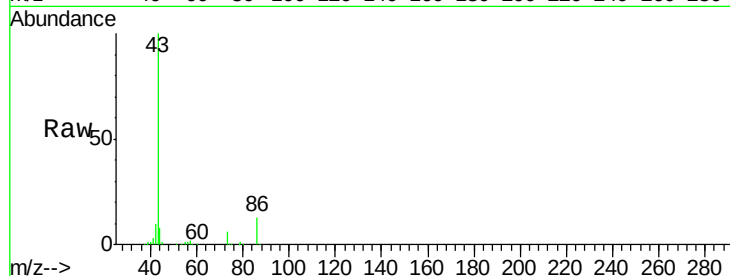
Ion Ratio Lower Upper

43 100

86 12.7 10.9 16.3

42 9.9 7.8 11.8

44 6.1 4.4 6.6

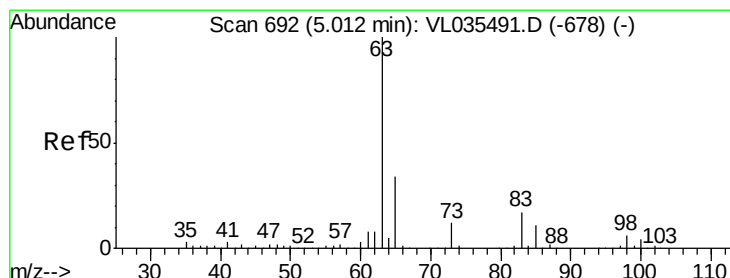
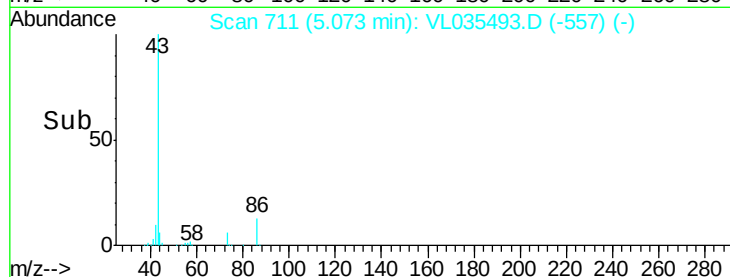
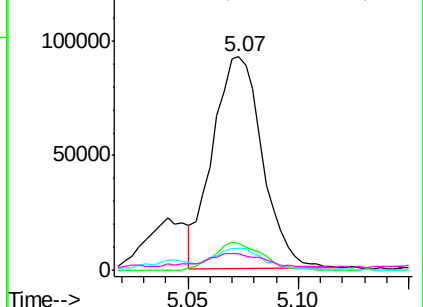


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.931 ppbv

RT: 5.01 min Scan# 690

Delta R.T. -0.01 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

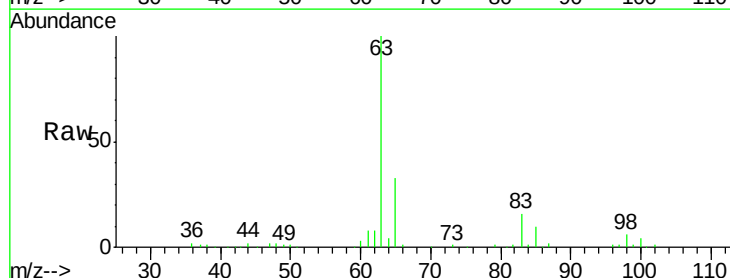
Tgt Ion: 63 Resp: 158629

Ion Ratio Lower Upper

63 100

98 6.4 3.1 9.4

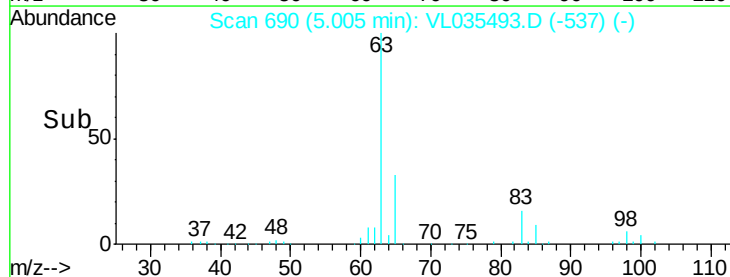
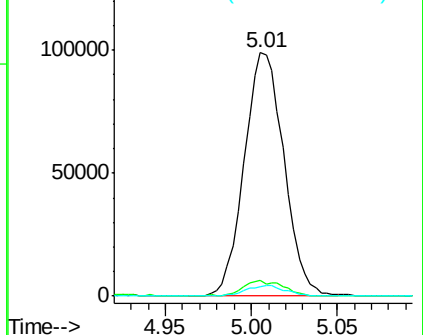
100 4.0 2.0 6.0

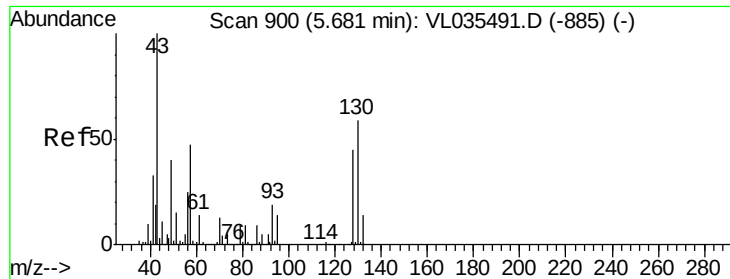


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

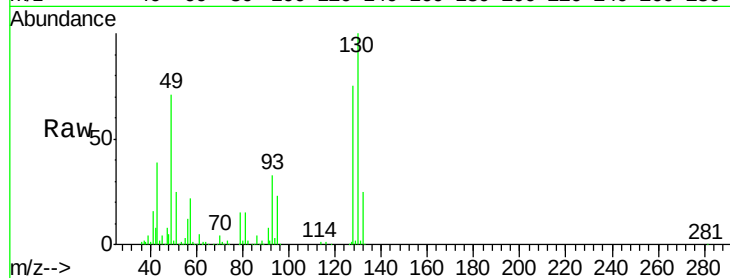




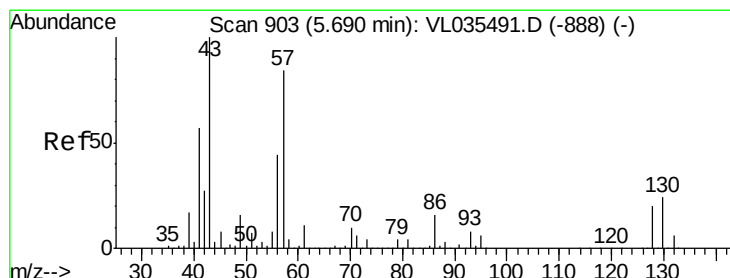
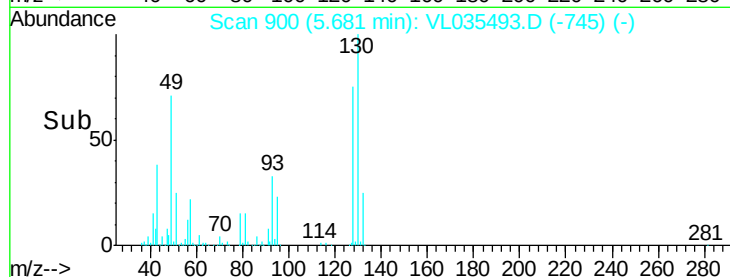
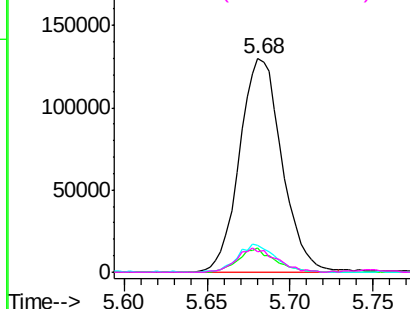
#25
Ethyl Acetate
Concen: 0.992 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.00 min
Lab File: VL035493.D
Acq: 23 Aug 2020 9:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion:	43	Resp:	230471
Ion	Ratio	Lower	Upper
43	100		
45	10.0	8.4	12.6
61	12.3	10.6	16.0
70	10.6	9.4	14.2

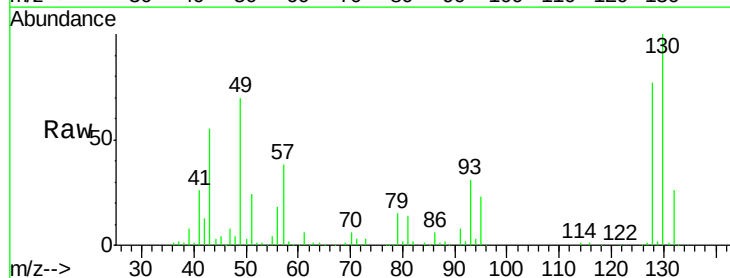


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

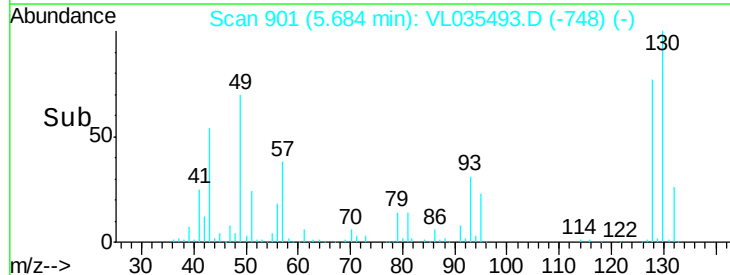
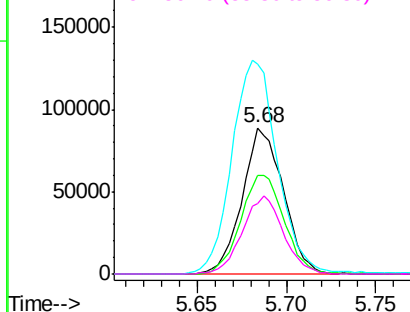


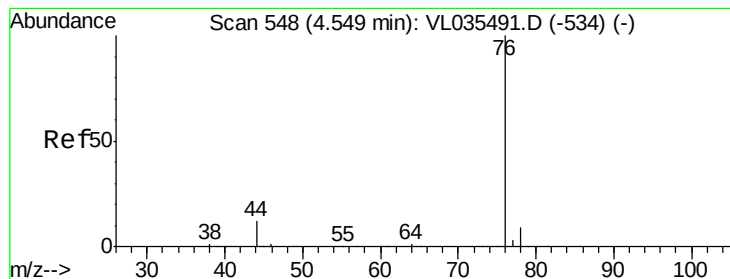
#26
Hexane
Concen: 1.090 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.01 min
Lab File: VL035493.D
Acq: 23 Aug 2020 9:32

Tgt Ion:	57	Resp:	142967
Ion	Ratio	Lower	Upper
57	100		
41	71.7	56.7	85.1
43	163.2	141.9	212.9
56	53.2	41.9	62.9



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.856 ppbv

RT: 4.55 min Scan# 548

Delta R.T. -0.00 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

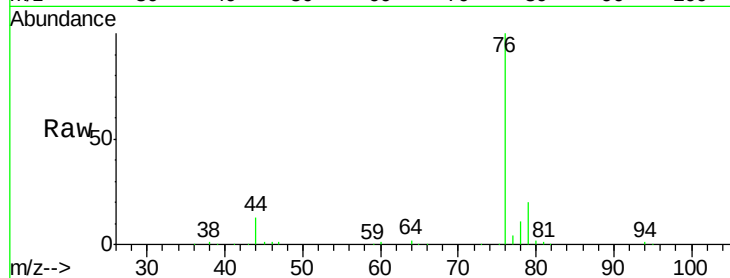
Tot Ion: 76 Resp: 162344

Ion Ratio Lower Upper

76 100

44 11.6 9.2 13.8

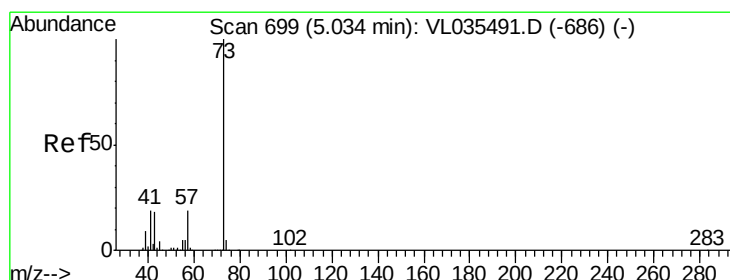
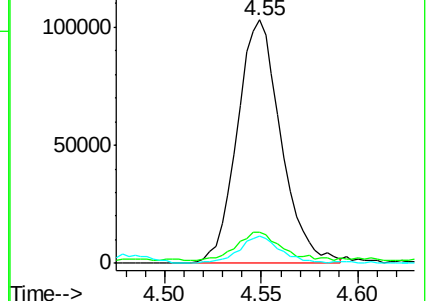
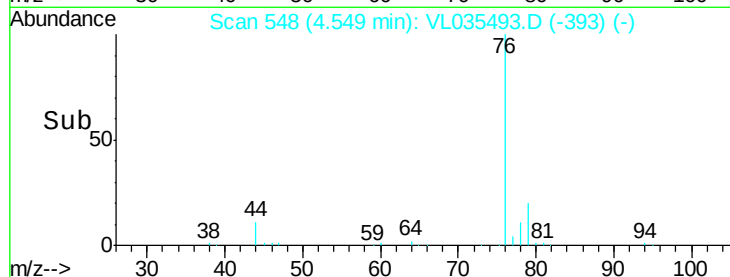
78 11.4 7.8 11.8



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: 0.894 ppbv

RT: 5.04 min Scan# 701

Delta R.T. 0.01 min

Lab File: VL035493.D

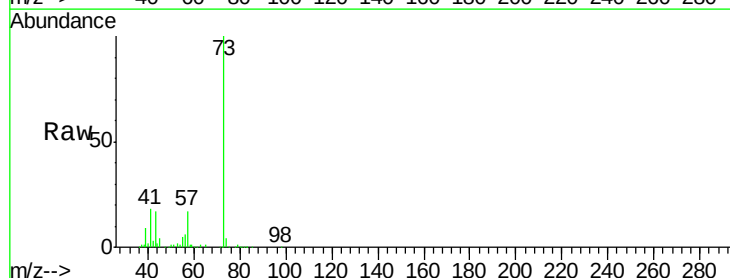
Acq: 23 Aug 2020 9:32

Tgt Ion: 73 Resp: 214087

Ion Ratio Lower Upper

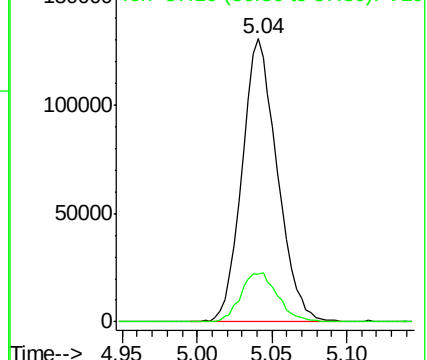
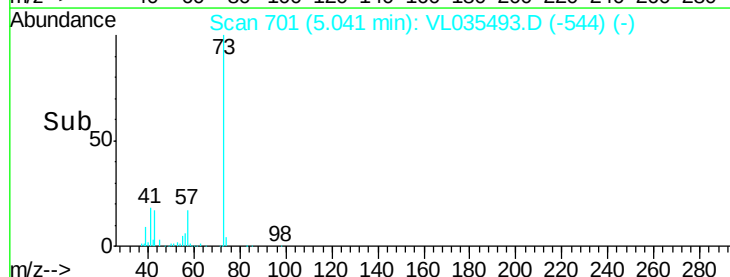
73 100

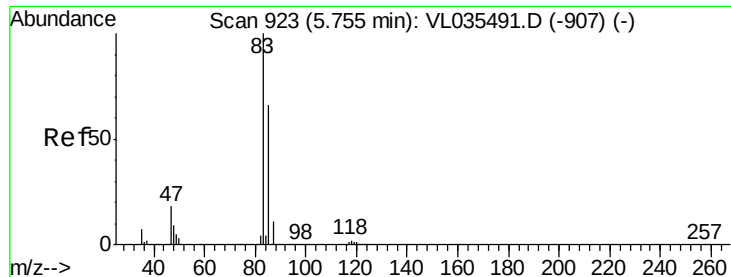
57 18.3 15.1 22.7



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

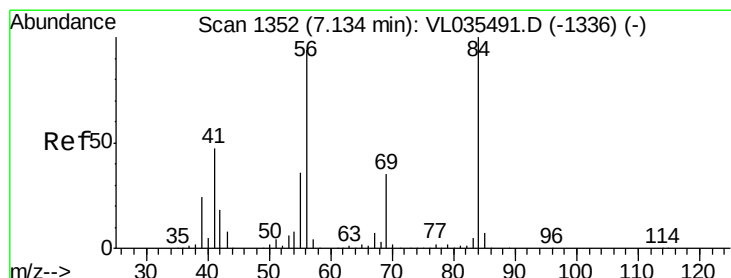
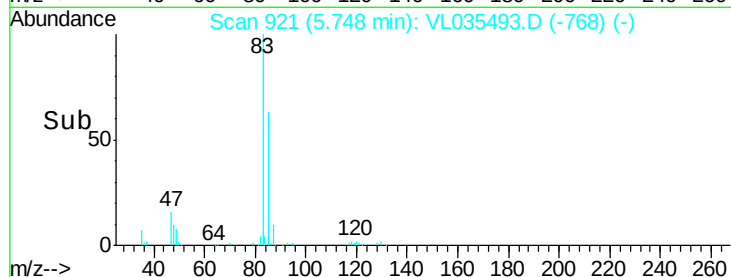
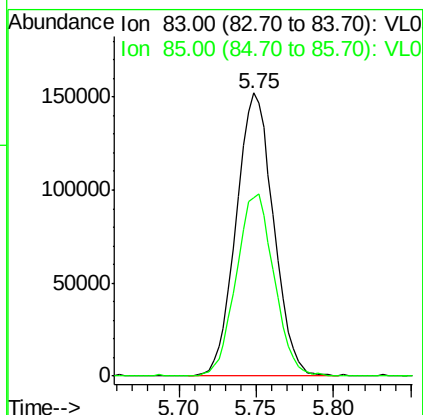
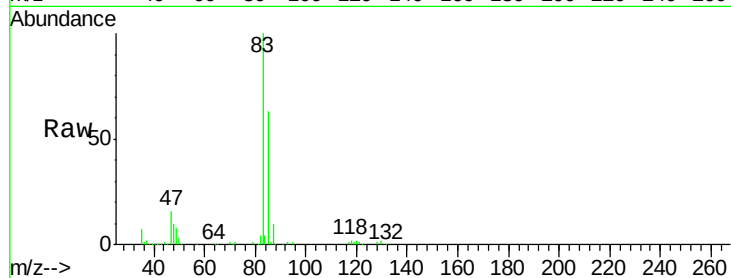




#29
Chloroform
Concen: 0.968 ppbv
RT: 5.75 min Scan# 921
Delta R.T. -0.01 min
Lab File: VL035493.D
Acq: 23 Aug 2020 9:32

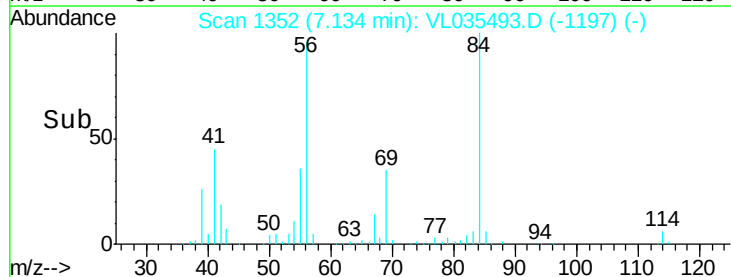
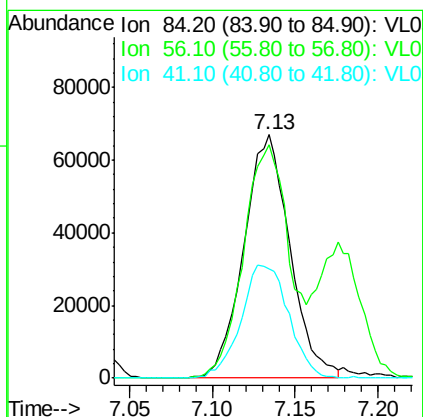
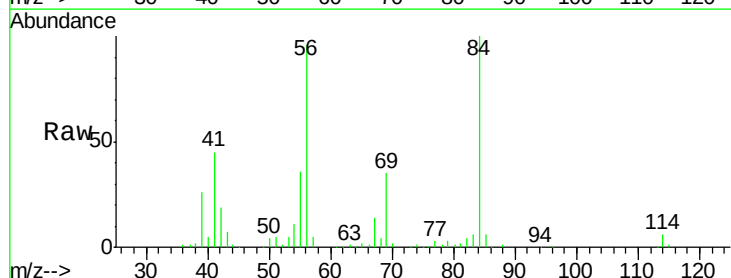
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

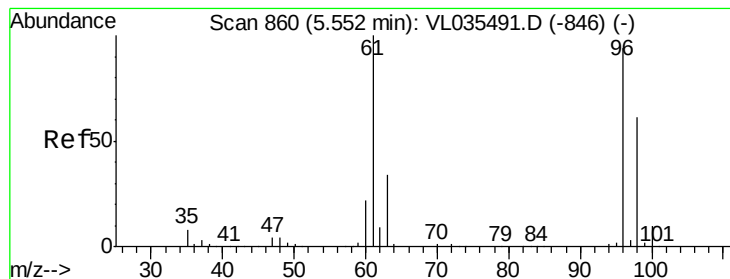
Tot Ion: 83 Resp: 255021
Ion Ratio Lower Upper
83 100
85 63.2 53.1 79.7



#30
Cyclohexane
Concen: 0.892 ppbv
RT: 7.13 min Scan# 1352
Delta R.T. -0.00 min
Lab File: VL035493.D
Acq: 23 Aug 2020 9:32

Tgt Ion: 84 Resp: 129838
Ion Ratio Lower Upper
84 100
56 98.3 79.9 119.9
41 48.2 37.6 56.4





#31

cis-1,2-Dichloroethene

Concen: 0.899 ppbv

RT: 5.55 min Scan# 858

Delta R.T. -0.01 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

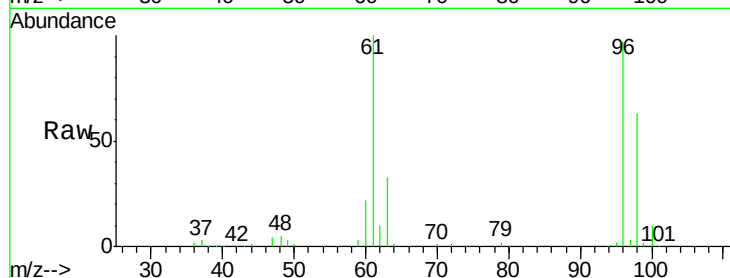
Tot Ion: 61 Resp: 124009

Ion Ratio Lower Upper

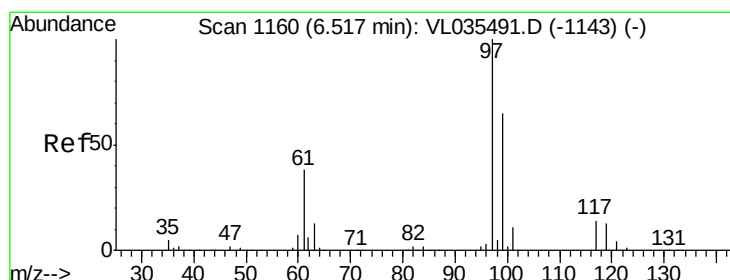
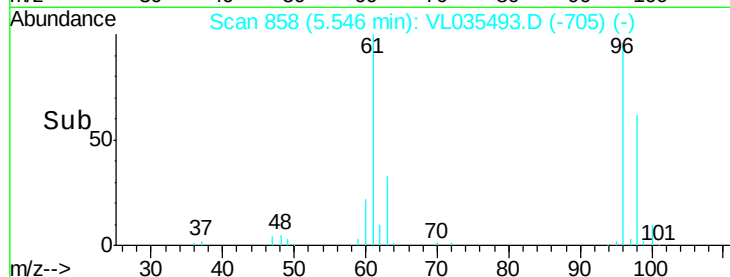
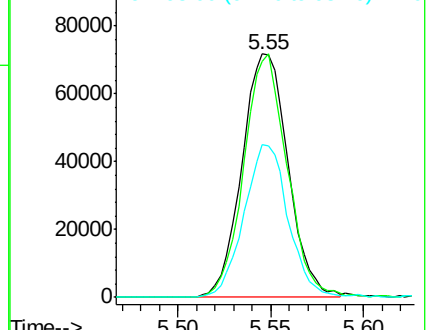
61 100

96 96.8 75.5 113.3

98 62.7 48.9 73.3



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



#32

1,1,1-Trichloroethane

Concen: 0.949 ppbv

RT: 6.51 min Scan# 1159

Delta R.T. -0.00 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

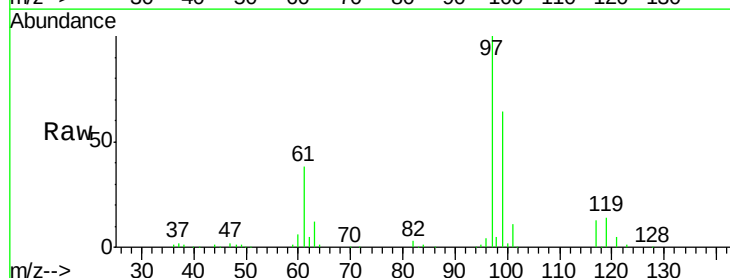
Tgt Ion: 97 Resp: 234412

Ion Ratio Lower Upper

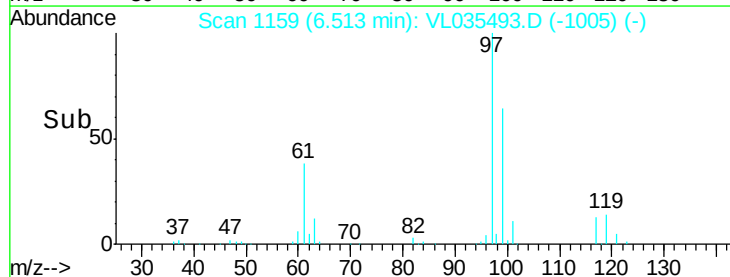
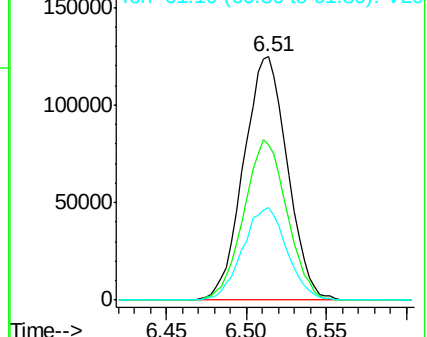
97 100

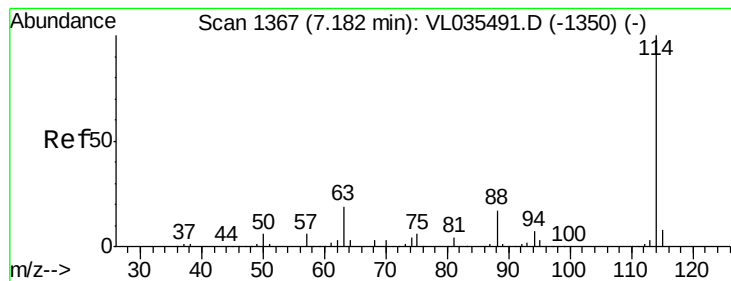
99 64.7 52.7 79.1

61 38.3 30.2 45.2



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





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.01 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

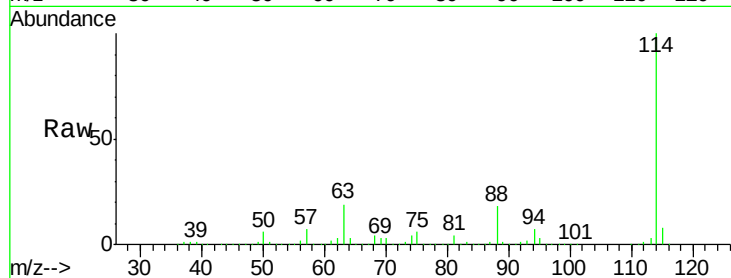
Tot Ion:114 Resp: 4632215

Ion Ratio Lower Upper

114 100

63 17.7 14.3 21.5

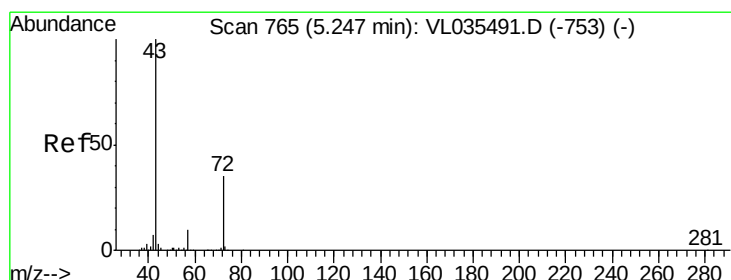
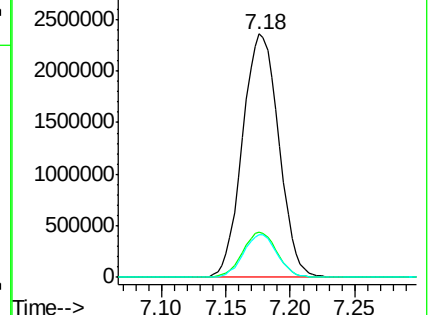
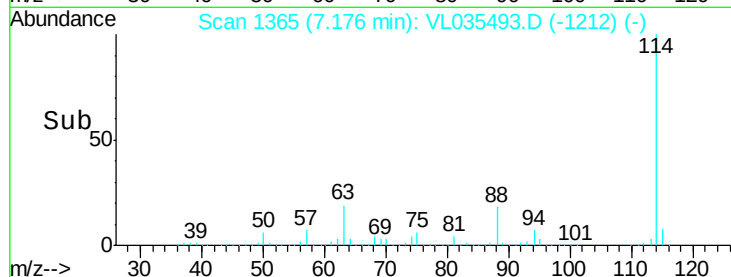
88 16.5 13.2 19.8



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: 0.897 ppbv

RT: 5.25 min Scan# 766

Delta R.T. 0.00 min

Lab File: VL035493.D

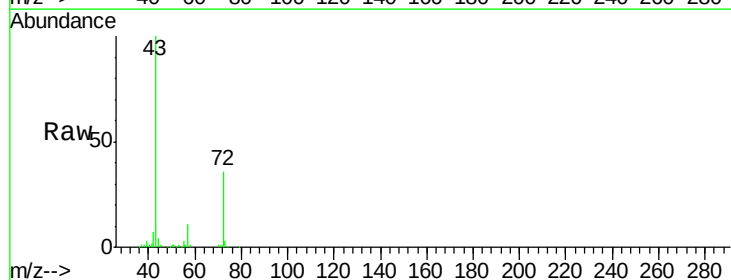
Acq: 23 Aug 2020 9:32

Tgt Ion: 43 Resp: 138750

Ion Ratio Lower Upper

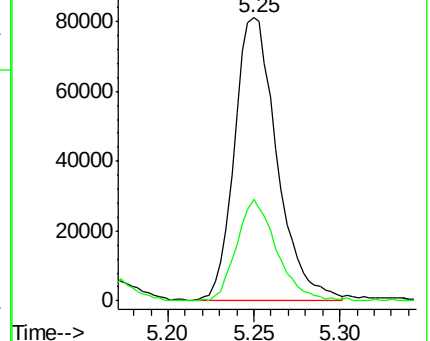
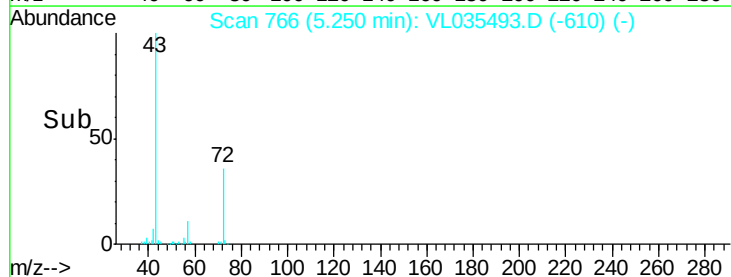
43 100

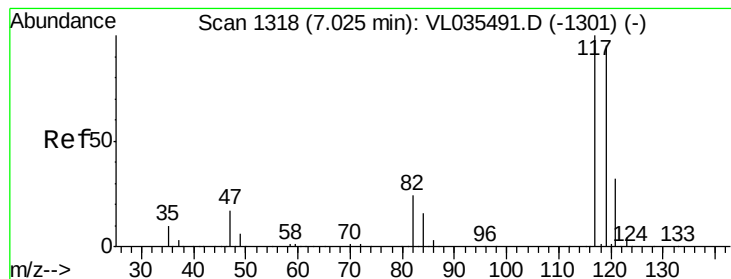
72 34.2 27.6 41.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.968 ppbv

RT: 7.02 min Scan# 1316

Delta R.T. -0.01 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

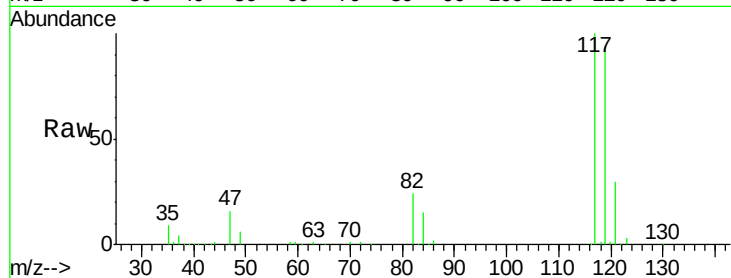
Tot Ion:117 Resp: 238551

Ion Ratio Lower Upper

117 100

119 94.2 75.6 113.4

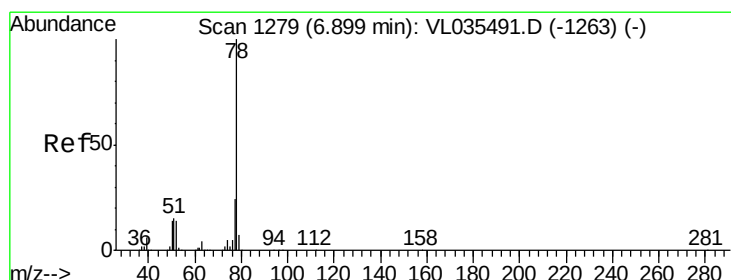
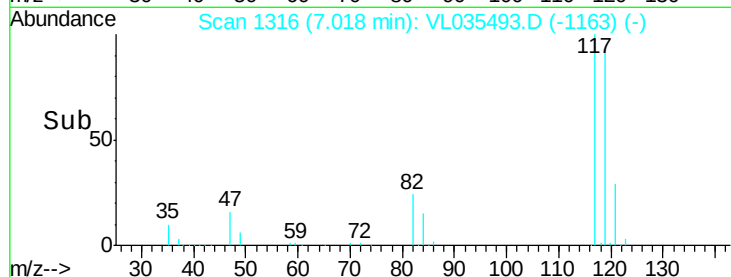
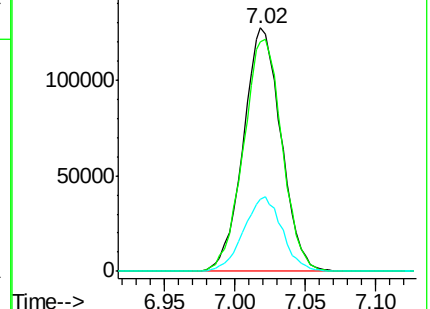
121 29.7 25.6 38.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.950 ppbv

RT: 6.89 min Scan# 1276

Delta R.T. -0.01 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

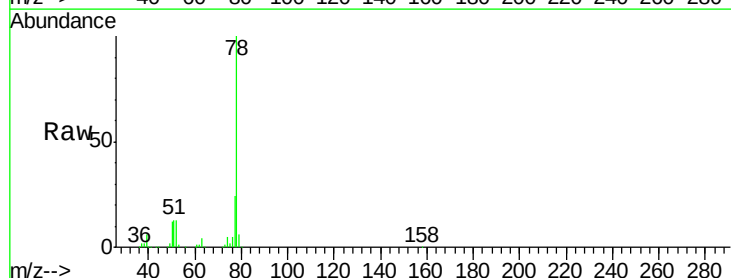
Tgt Ion: 78 Resp: 323022

Ion Ratio Lower Upper

78 100

77 23.7 19.2 28.8

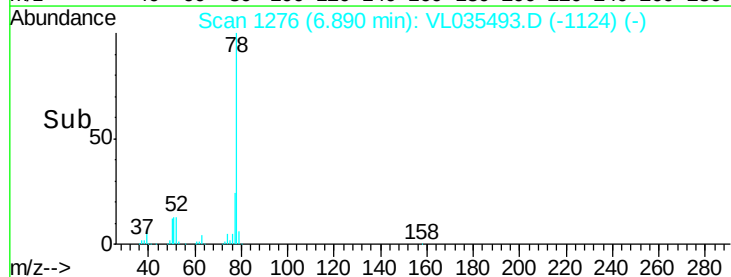
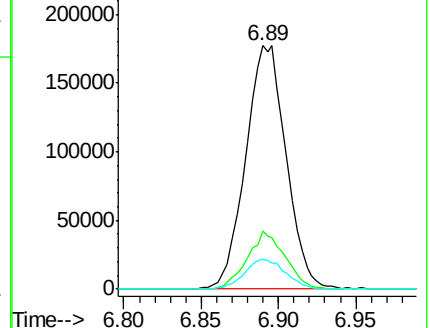
50 12.2 11.0 16.4

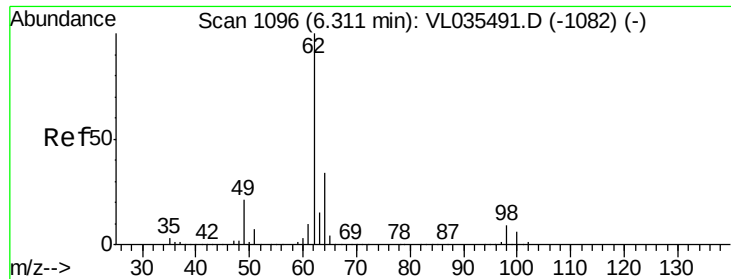


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

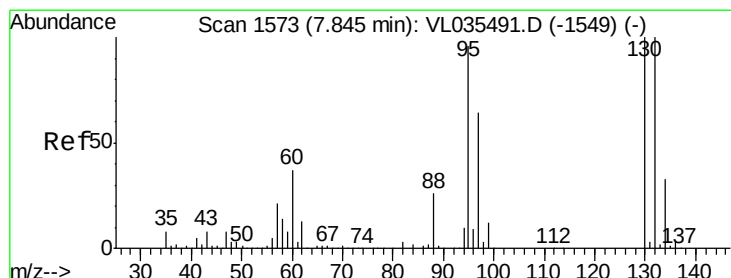
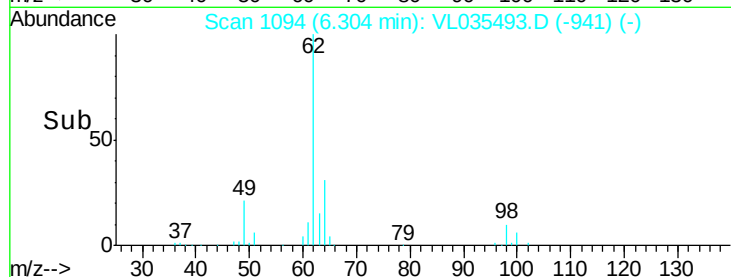
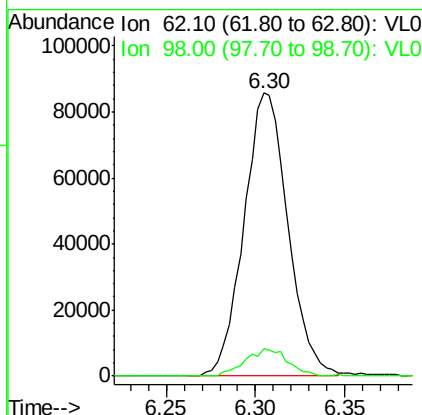
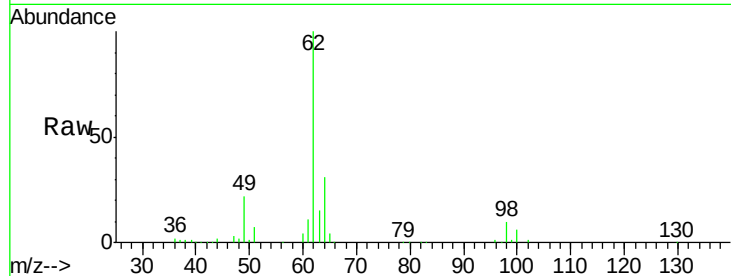




#37
 1,2-Dichloroethane
 Concen: 0.951 ppbv
 RT: 6.30 min Scan# 1094
 Delta R.T. -0.01 min
 Lab File: VL035493.D
 Acq: 23 Aug 2020 9:32

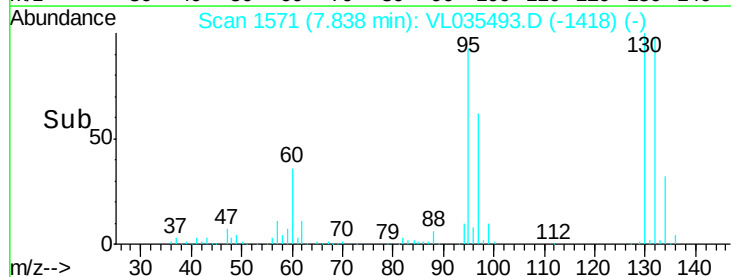
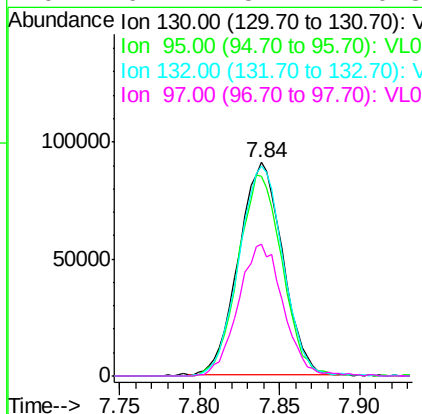
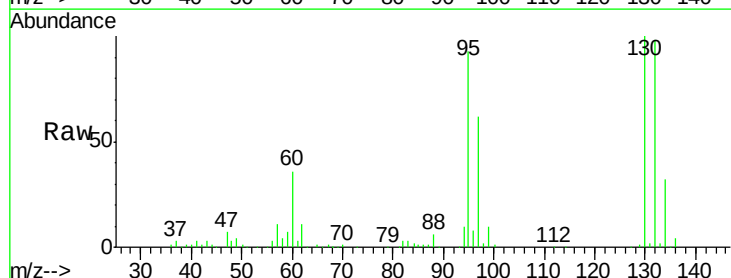
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

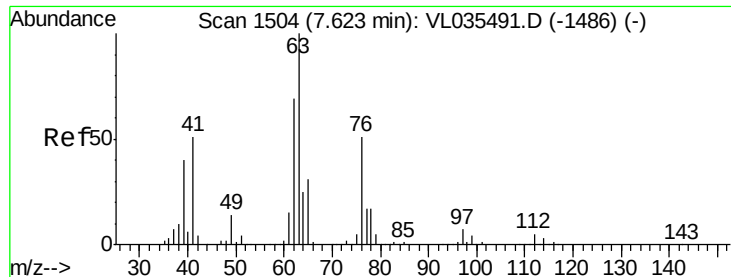
Tot Ion: 62 Resp: 147687
 Ion Ratio Lower Upper
 62 100
 98 9.5 7.4 11.2



#38
 Trichloroethene
 Concen: 0.910 ppbv
 RT: 7.84 min Scan# 1571
 Delta R.T. -0.01 min
 Lab File: VL035493.D
 Acq: 23 Aug 2020 9:32

Tgt Ion: 130 Resp: 172114
 Ion Ratio Lower Upper
 130 100
 95 93.4 76.9 115.3
 132 98.2 80.2 120.4
 97 62.1 51.2 76.8





#39

1,2-Dichloropropane

Concen: 0.945 ppbv

RT: 7.62 min Scan# 1502

Delta R.T. -0.01 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

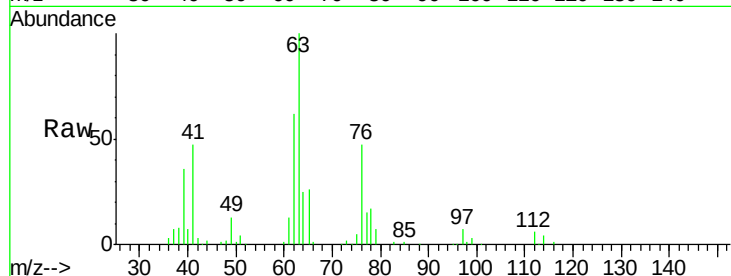
Tot Ion: 63 Resp: 105887

Ion Ratio Lower Upper

63 100

41 47.1 40.9 61.3

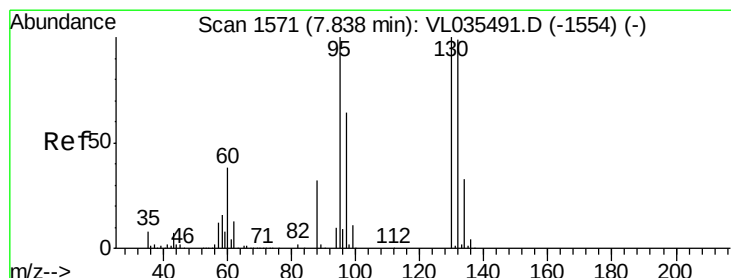
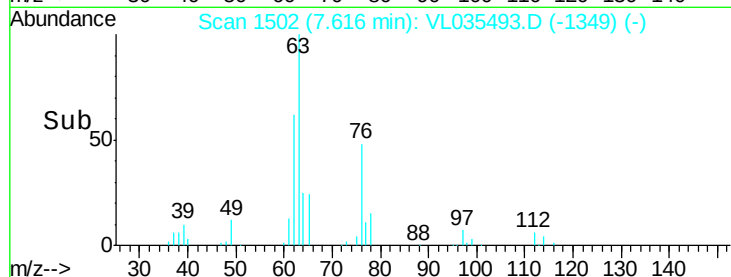
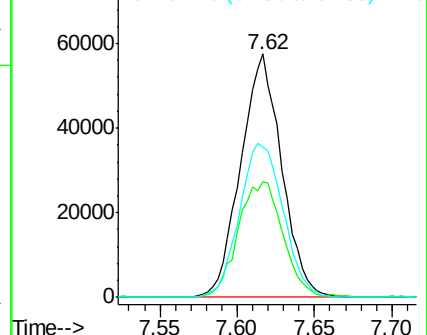
62 61.6 55.3 82.9



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: 0.914 ppbv m

RT: 7.86 min Scan# 1577

Delta R.T. 0.02 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

Tgt Ion: 88 Resp: 55806

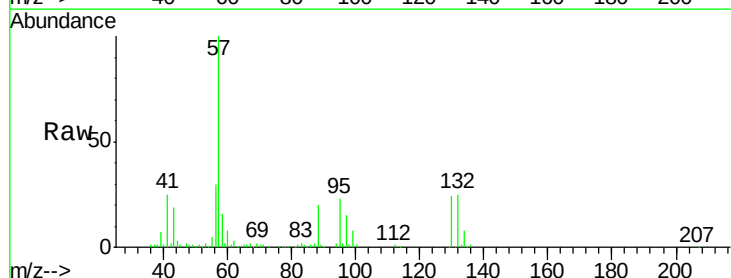
Ion Ratio Lower Upper

88 100

58 0.0 68.1 102.1#

43 0.0 101.0 151.4#

57 0.0 546.5 819.7#

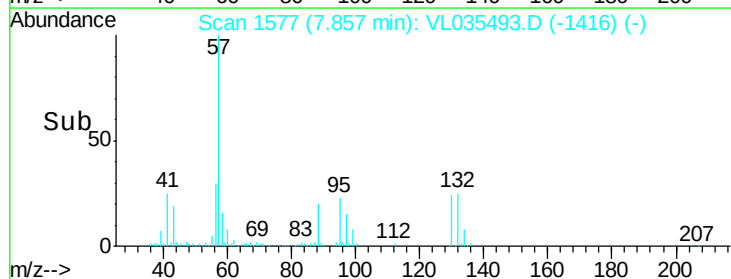
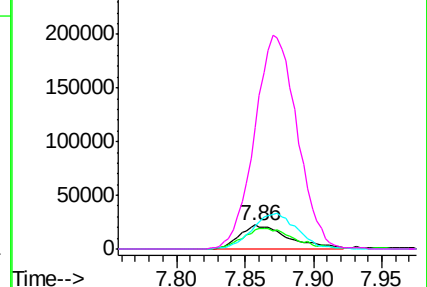


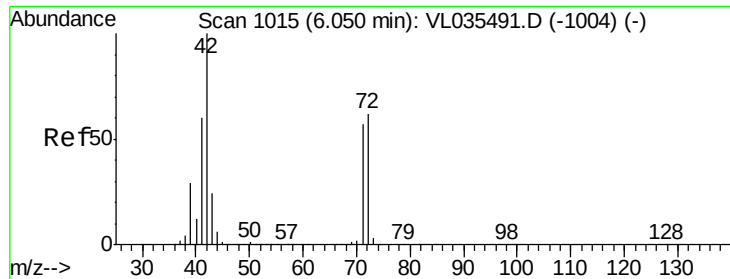
Abundance Ion 88.10 (87.80 to 88.80): VL0

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: 0.862 ppbv

RT: 6.06 min Scan# 1019

Delta R.T. 0.01 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

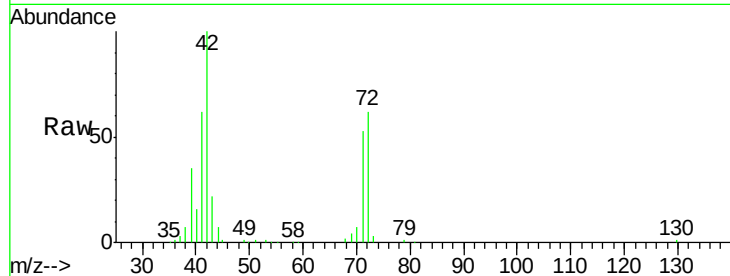
Tot Ion: 42 Resp: 73604

Ion Ratio Lower Upper

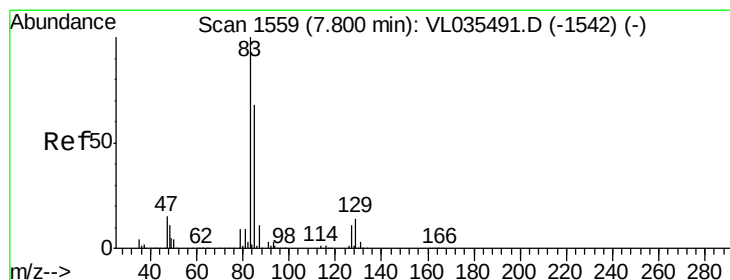
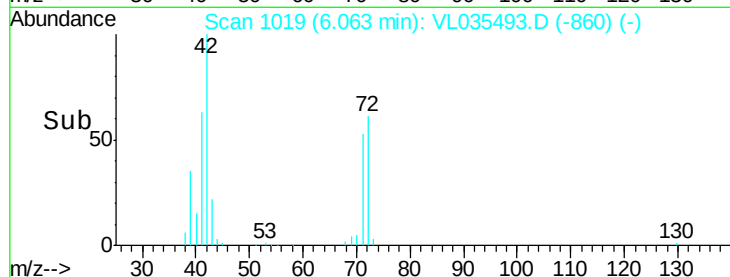
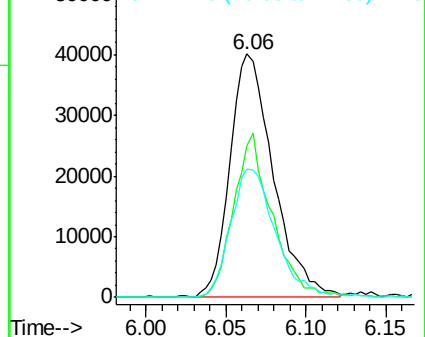
42 100

72 60.1 49.1 73.7

71 55.3 46.7 70.1



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: 0.916 ppbv

RT: 7.79 min Scan# 1557

Delta R.T. -0.01 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

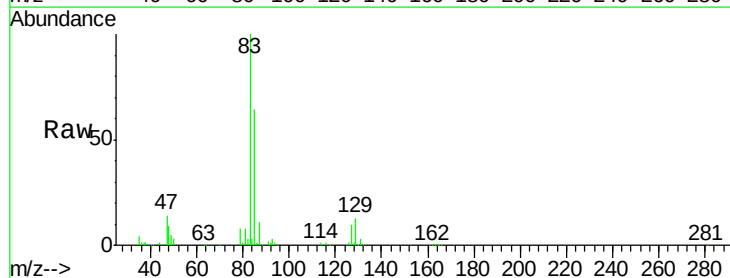
Tgt Ion: 83 Resp: 238050

Ion Ratio Lower Upper

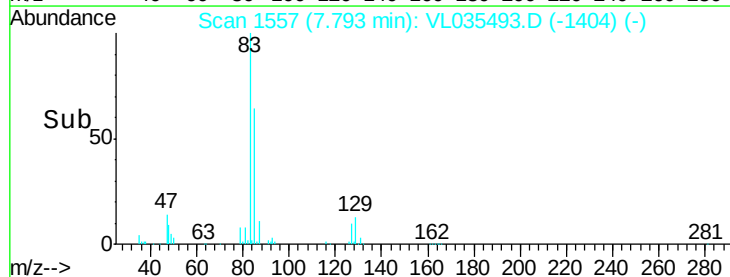
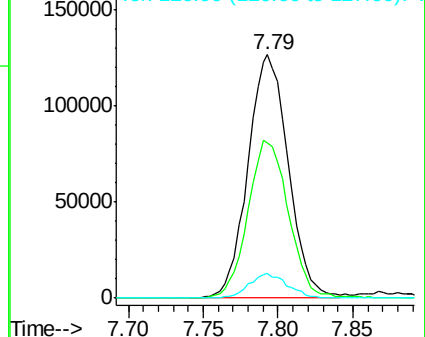
83 100

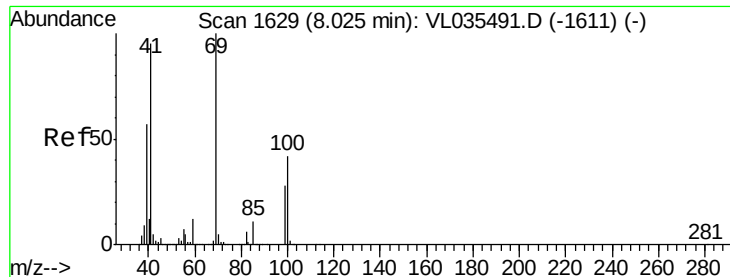
85 64.0 54.8 82.2

127 10.2 8.6 13.0



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

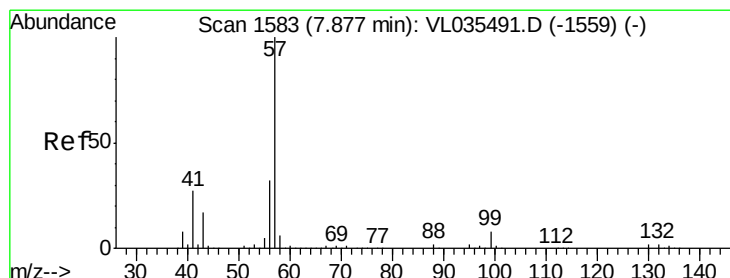
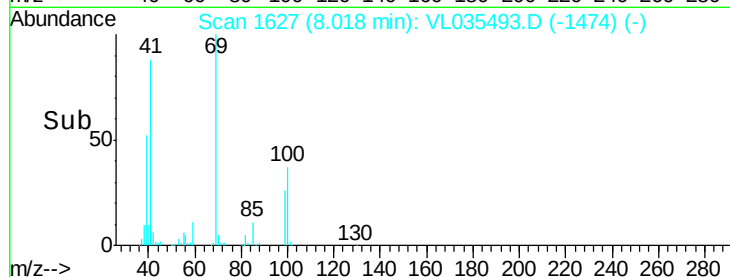
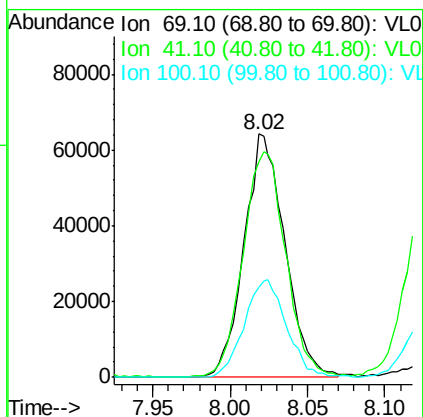
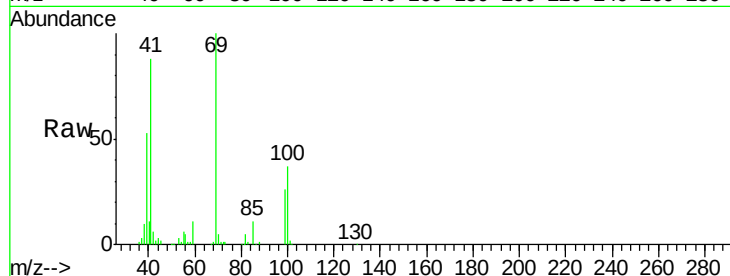




#43
Methyl Methacrylate
Concen: 0.890 ppbv
RT: 8.02 min Scan# 1627
Delta R.T. -0.01 min
Lab File: VL035493.D
Acq: 23 Aug 2020 9:32

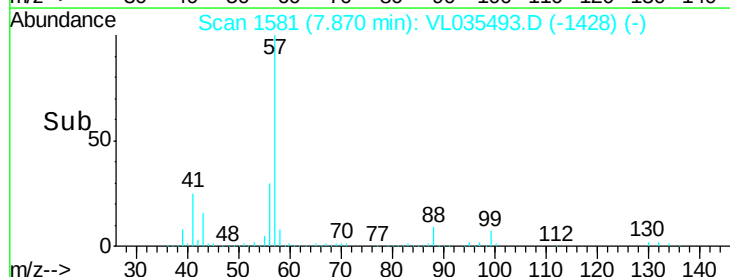
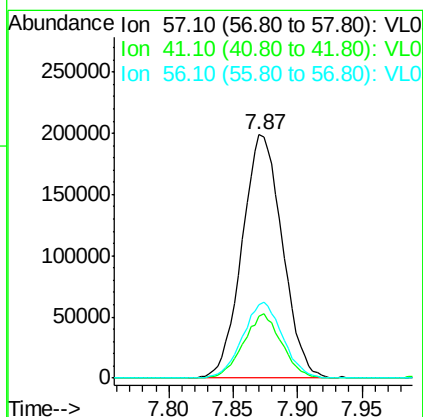
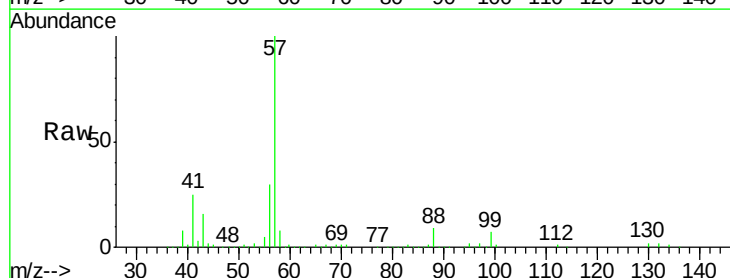
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

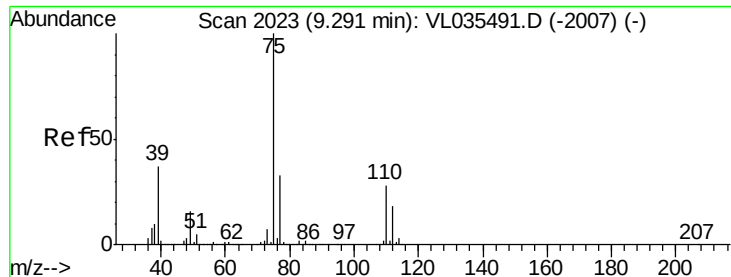
Tot Ion: 69 Resp: 118266
Ion Ratio Lower Upper
69 100
41 97.1 76.1 114.1
100 41.5 34.2 51.4



#44
2,2,4-Trimethylpentane
Concen: 0.975 ppbv
RT: 7.87 min Scan# 1581
Delta R.T. -0.01 min
Lab File: VL035493.D
Acq: 23 Aug 2020 9:32

Tgt Ion: 57 Resp: 433060
Ion Ratio Lower Upper
57 100
41 25.2 20.7 31.1
56 30.8 25.3 37.9

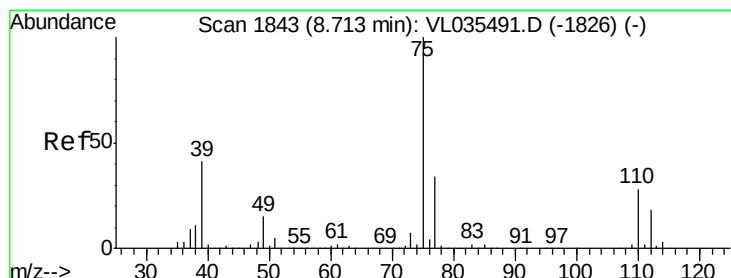
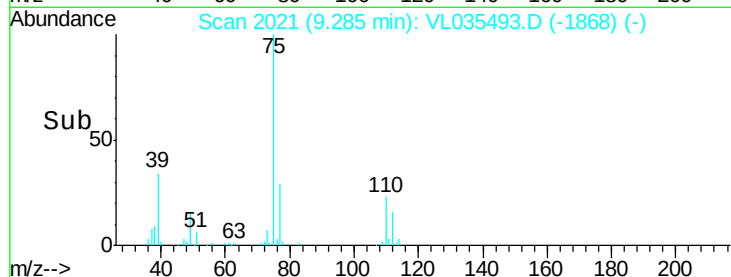
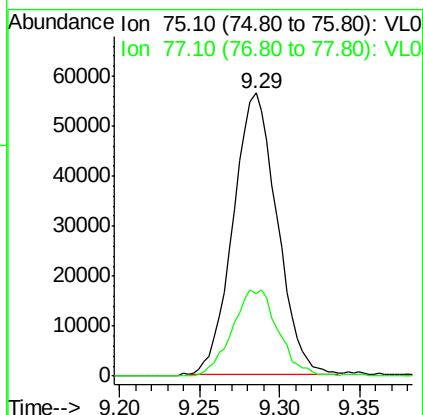
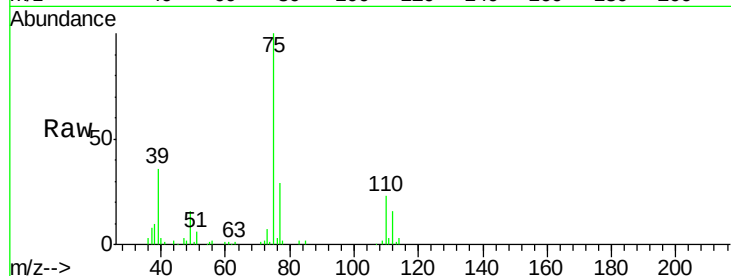




#45
 t-1,3-Dichloropropene
 Concen: 0.772 ppbv
 RT: 9.29 min Scan# 2021
 Delta R.T. -0.01 min
 Lab File: VL035493.D
 Acq: 23 Aug 2020 9:32

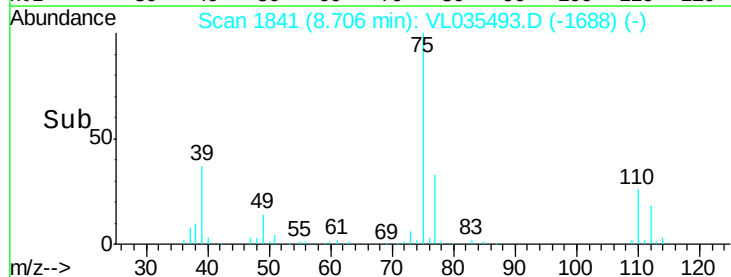
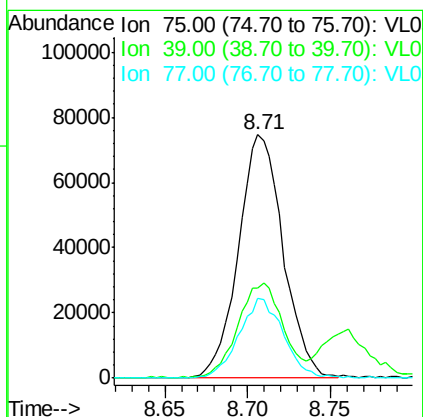
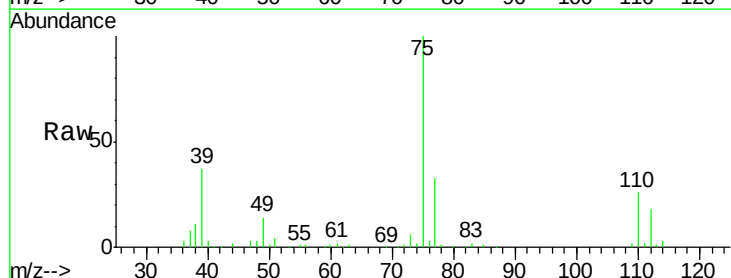
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

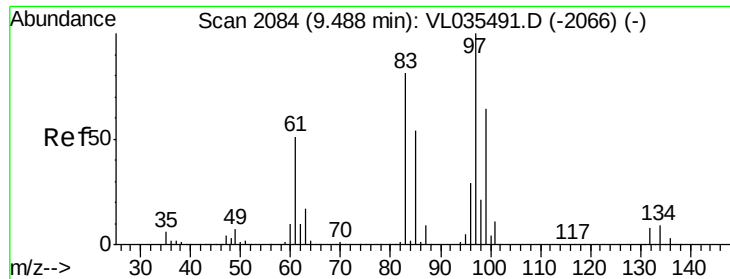
Tot Ion: 75 Resp: 105764
 Ion Ratio Lower Upper
 75 100
 77 29.2 26.6 39.8



#46
 cis-1,3-Dichloropropene
 Concen: 0.820 ppbv
 RT: 8.71 min Scan# 1841
 Delta R.T. -0.01 min
 Lab File: VL035493.D
 Acq: 23 Aug 2020 9:32

Tgt Ion: 75 Resp: 139910
 Ion Ratio Lower Upper
 75 100
 39 36.7 33.2 49.8
 77 32.4 27.1 40.7

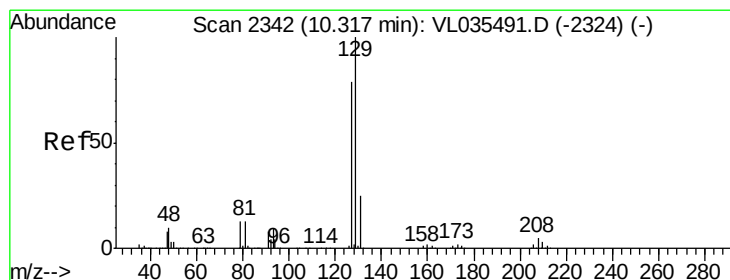
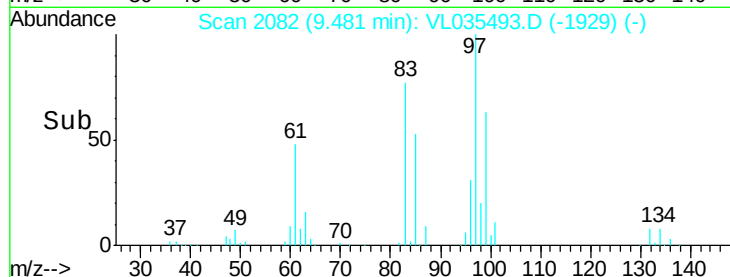
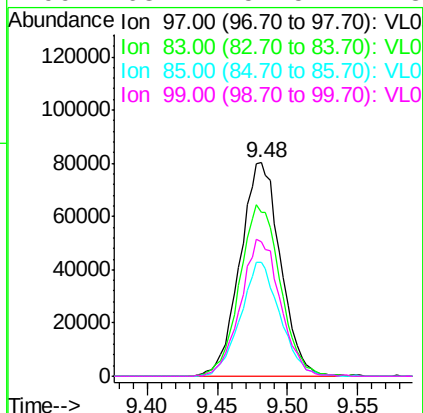
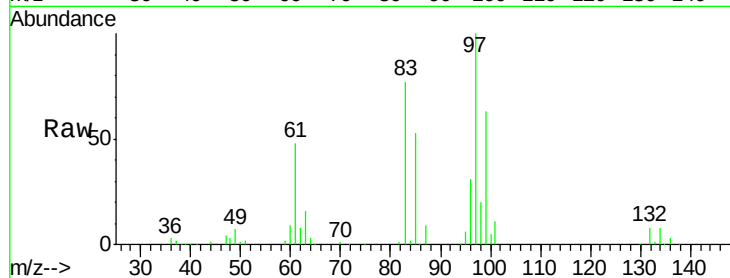




#47
 1,1,2-Trichloroethane
 Concen: 0.962 ppbv
 RT: 9.48 min Scan# 2082
 Delta R.T. -0.01 min
 Lab File: VL035493.D
 Acq: 23 Aug 2020 9:32

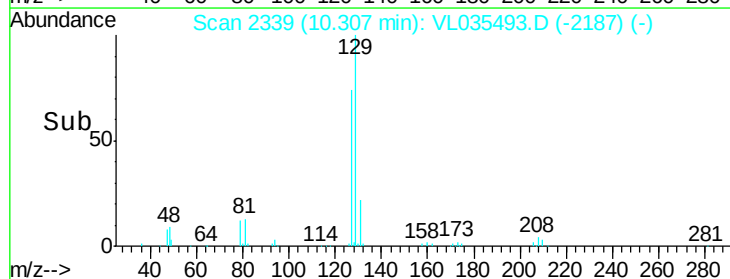
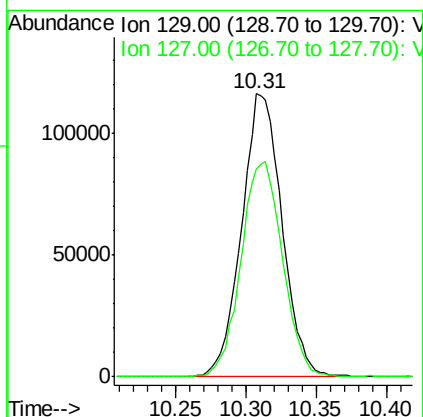
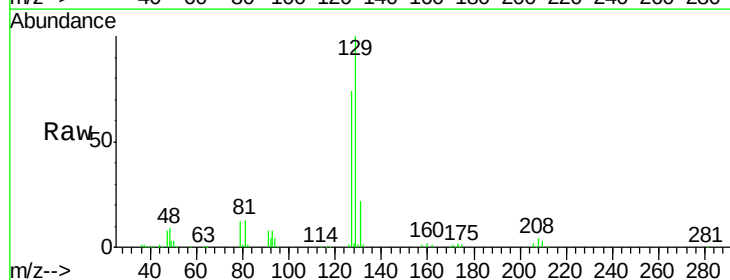
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

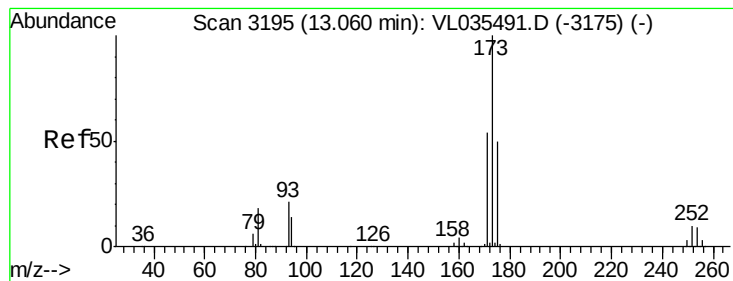
Tot Ion:	97	Resp:	161081
Ion	Ratio	Lower	Upper
97	100		
83	76.7	64.9	97.3
85	53.3	43.1	64.7
99	63.1	51.5	77.3



#48
 Dibromochloromethane
 Concen: 0.831 ppbv
 RT: 10.31 min Scan# 2339
 Delta R.T. -0.01 min
 Lab File: VL035493.D
 Acq: 23 Aug 2020 9:32

Tgt Ion:	129	Resp:	233351
Ion	Ratio	Lower	Upper
129	100		
127	78.1	39.1	117.5





#49

Bromoform

Concen: 0.773 ppbv

RT: 13.05 min Scan# 3192

Delta R.T. -0.01 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

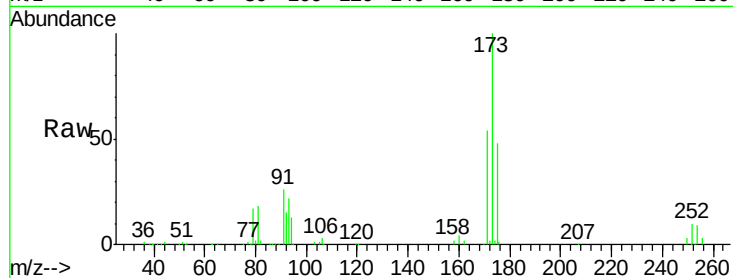
Tot Ion:173 Resp: 208996

Ion Ratio Lower Upper

173 100

175 48.6 40.2 60.4

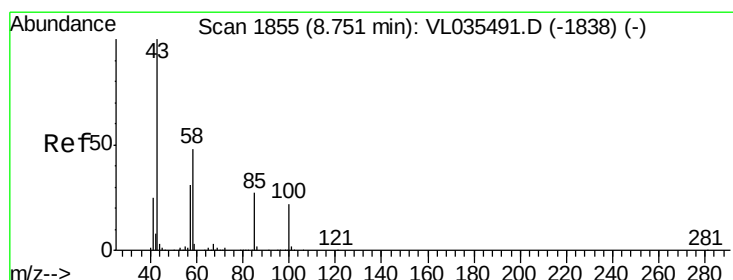
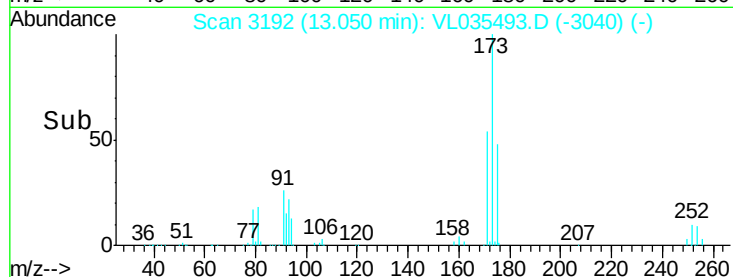
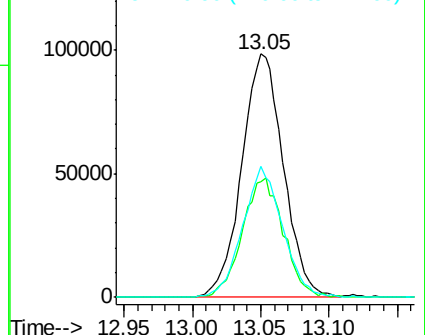
171 51.5 42.7 64.1



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: 0.919 ppbv

RT: 8.76 min Scan# 1857

Delta R.T. 0.01 min

Lab File: VL035493.D

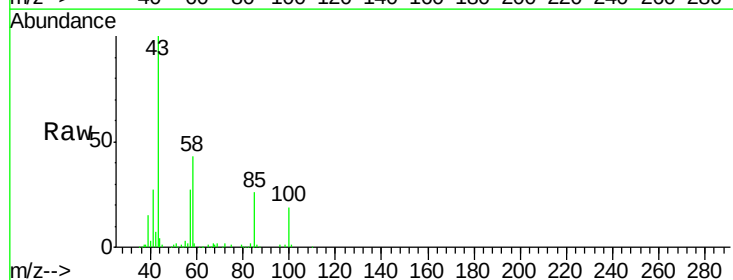
Acq: 23 Aug 2020 9:32

Tgt Ion: 43 Resp: 203982

Ion Ratio Lower Upper

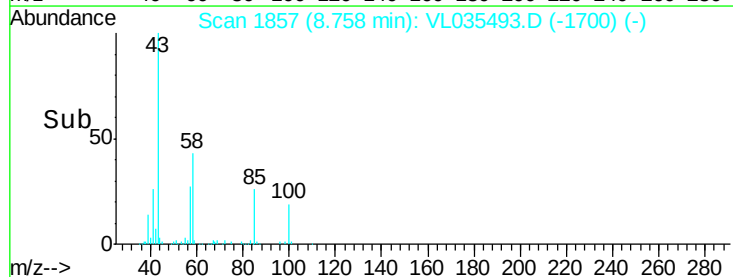
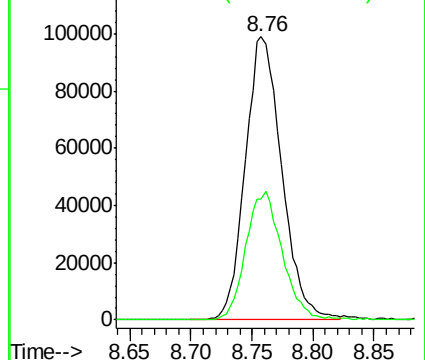
43 100

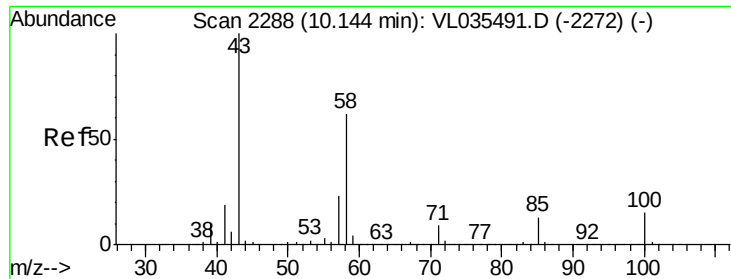
58 45.3 37.4 56.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

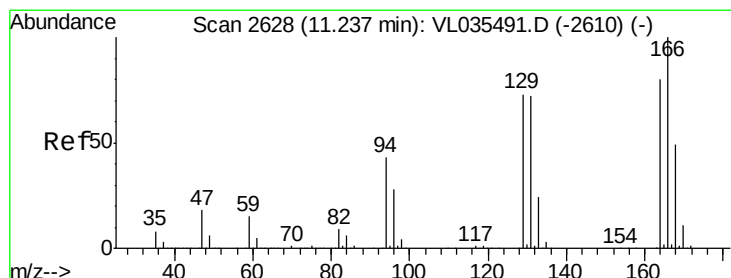
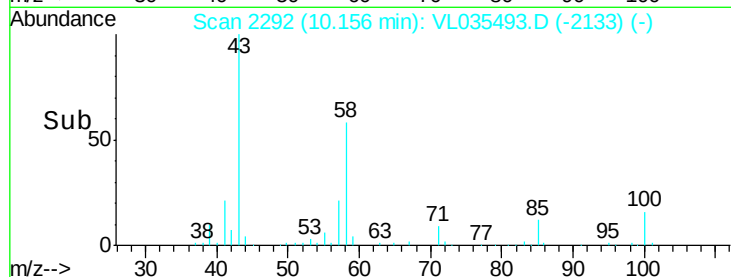
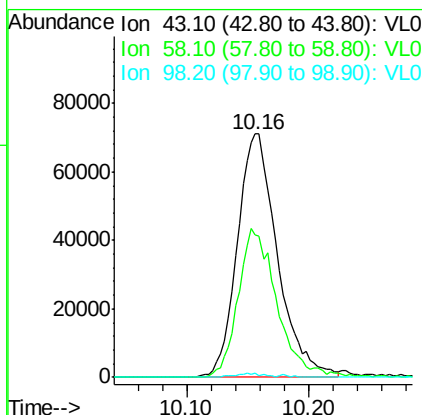
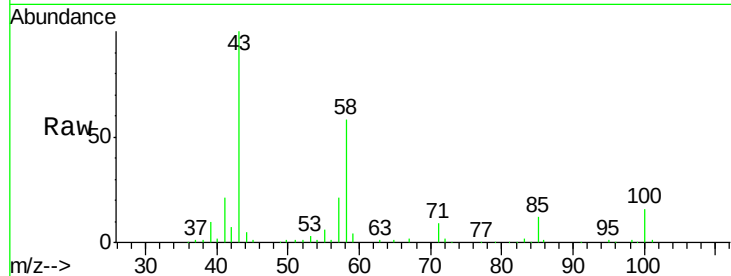




#51
2-Hexanone
Concen: 0.861 ppbv
RT: 10.16 min Scan# 2292
Delta R.T. 0.01 min
Lab File: VL035493.D
Acq: 23 Aug 2020 9:32

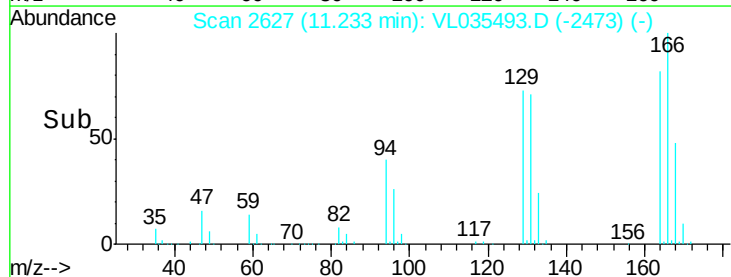
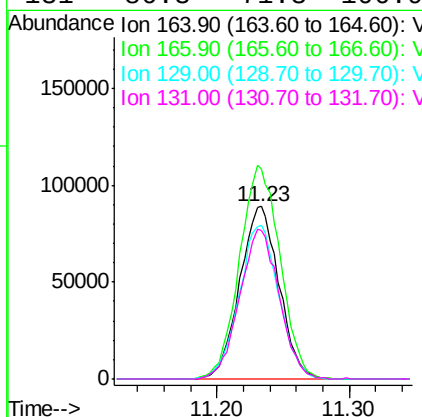
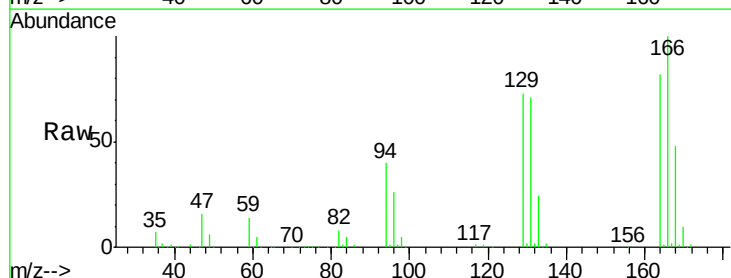
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

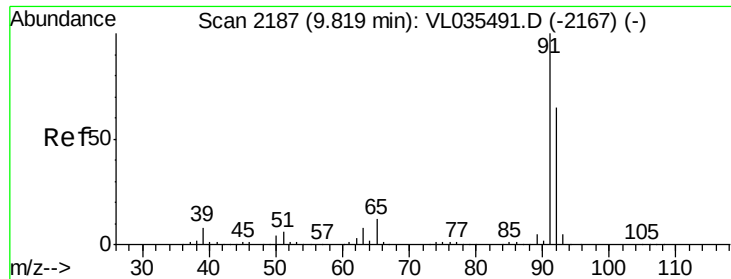
Tot Ion: 43 Resp: 161056
Ion Ratio Lower Upper
43 100
58 59.8 50.3 75.5
98 1.4 0.4 0.6#



#52
Tetrachloroethene
Concen: 0.884 ppbv
RT: 11.23 min Scan# 2627
Delta R.T. -0.00 min
Lab File: VL035493.D
Acq: 23 Aug 2020 9:32

Tgt Ion: 164 Resp: 183410
Ion Ratio Lower Upper
164 100
166 122.1 99.6 149.4
129 88.9 72.8 109.2
131 86.3 71.3 106.9





#53

Toluene

Concen: 0.924 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. -0.00 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

Instrument :

MSVOA_L

ClientSampleId :

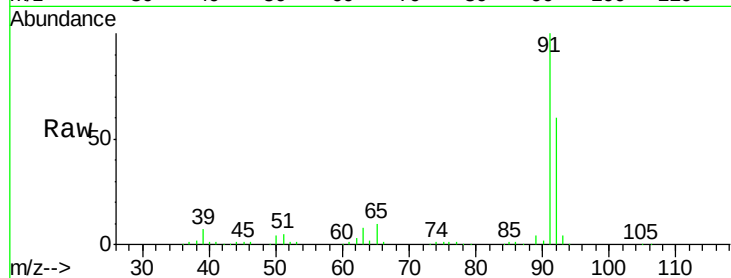
VSTDIC001

Tot Ion: 91 Resp: 404654

Ion Ratio Lower Upper

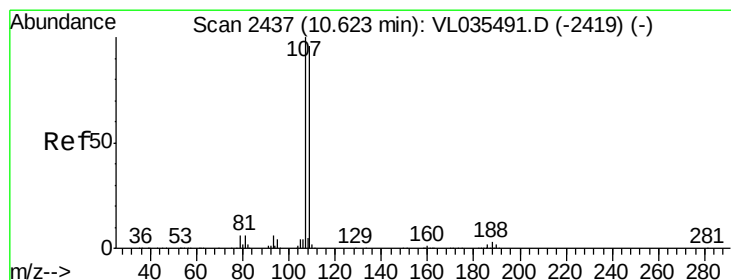
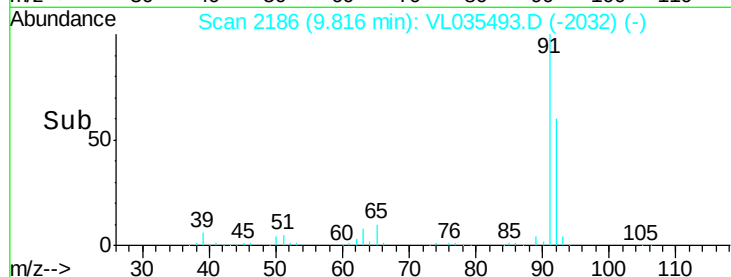
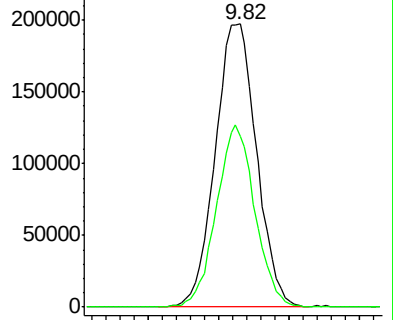
91 100

92 60.0 49.9 74.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 0.922 ppbv

RT: 10.62 min Scan# 2435

Delta R.T. -0.01 min

Lab File: VL035493.D

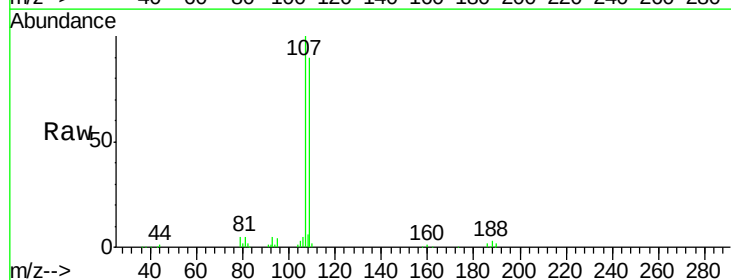
Acq: 23 Aug 2020 9:32

Tgt Ion: 107 Resp: 250583

Ion Ratio Lower Upper

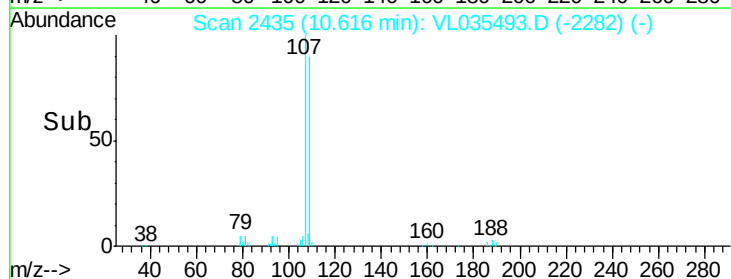
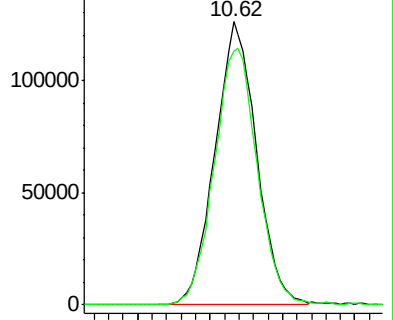
107 100

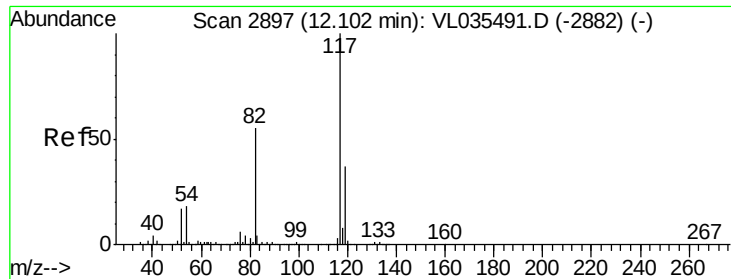
109 89.9 76.5 114.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

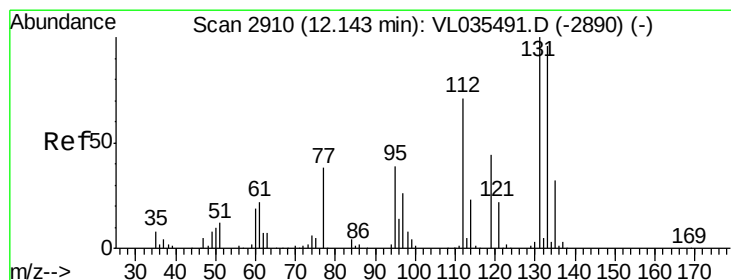
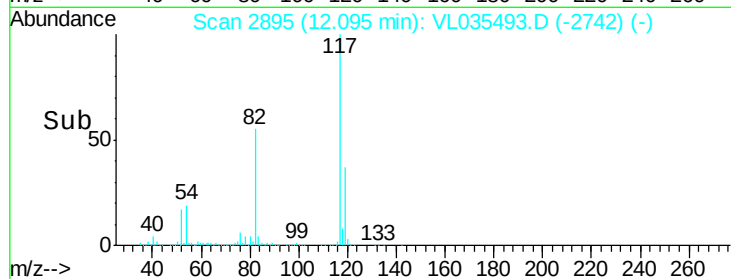
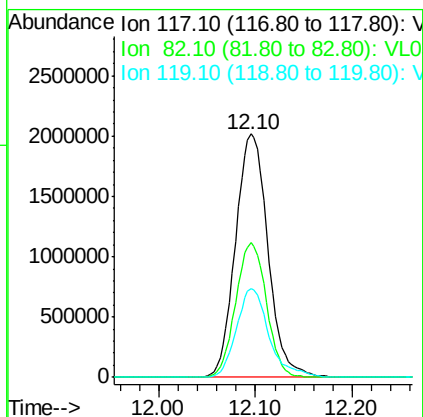
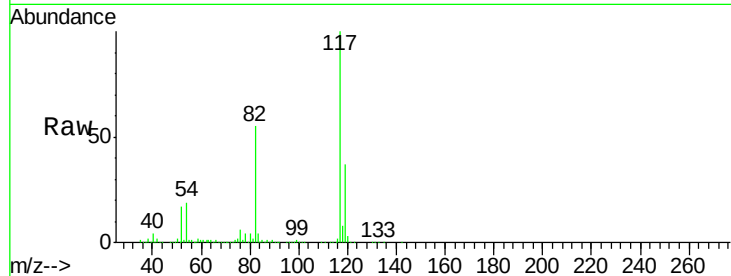




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2895
Delta R.T. -0.01 min
Lab File: VL035493.D
Acq: 23 Aug 2020 9:32

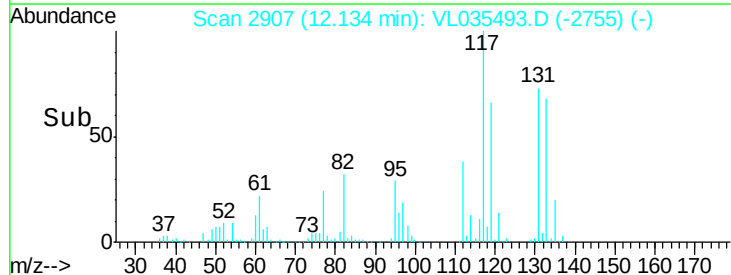
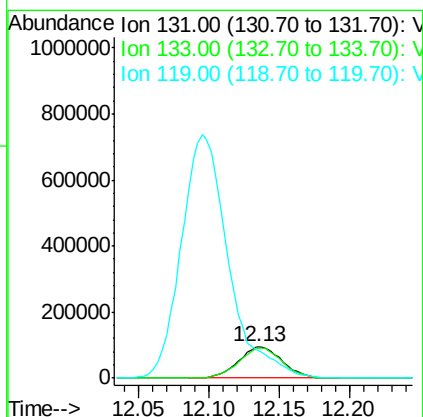
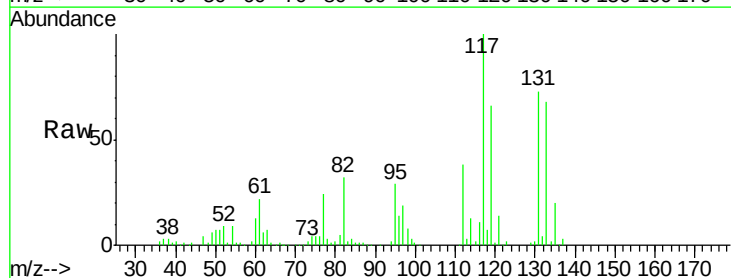
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

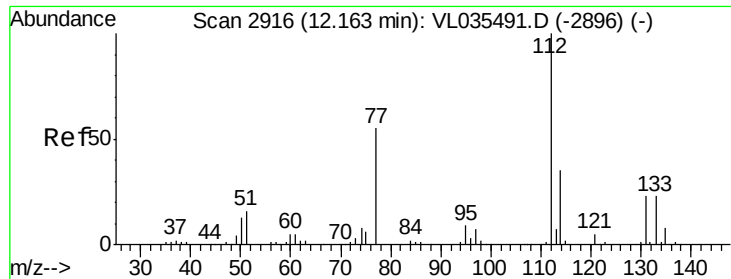
Tot Ion:117 Resp: 4703002
Ion Ratio Lower Upper
117 100
82 52.7 43.9 65.9
119 36.7 30.4 45.6



#56
1,1,1,2-Tetrachloroethane
Concen: 0.920 ppbv
RT: 12.13 min Scan# 2907
Delta R.T. -0.01 min
Lab File: VL035493.D
Acq: 23 Aug 2020 9:32

Tgt Ion:131 Resp: 205172
Ion Ratio Lower Upper
131 100
133 95.6 76.9 115.3
119 842.2 45.3 67.9#

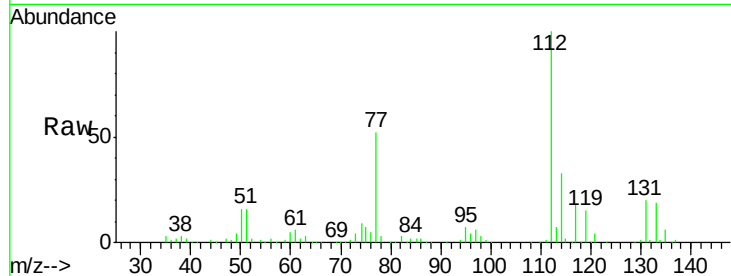




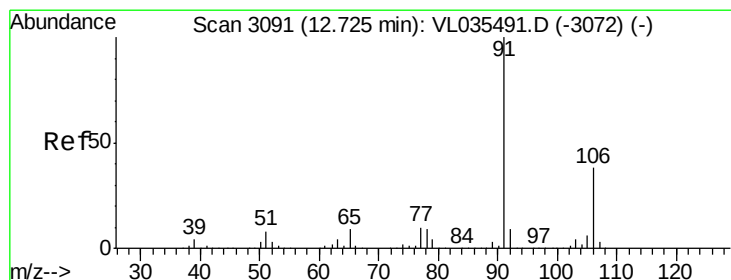
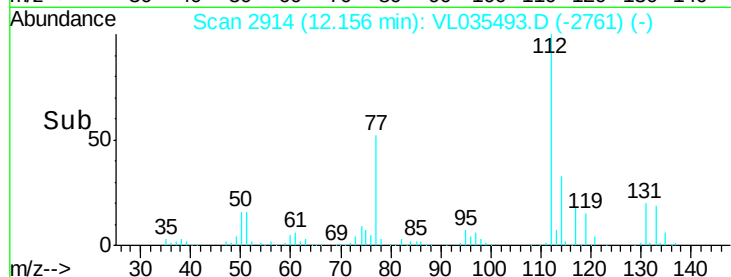
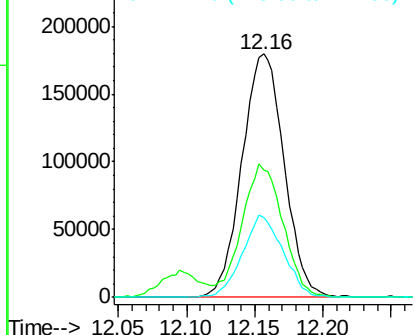
#57
Chlorobenzene
Concen: 0.981 ppbv
RT: 12.16 min Scan# 2914
Delta R.T. -0.01 min
Lab File: VL035493.D
Acq: 23 Aug 2020 9:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion:112 Resp: 384952
Ion Ratio Lower Upper
112 100
77 51.8 45.2 67.8
114 32.8 31.6 38.6

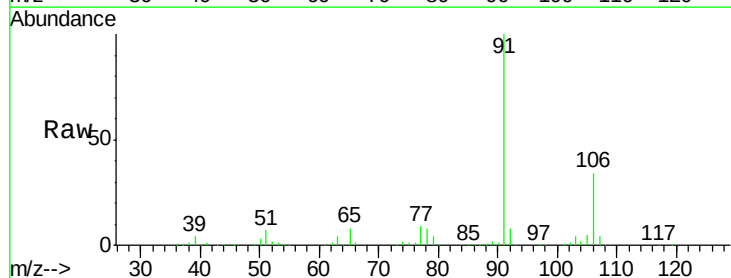


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

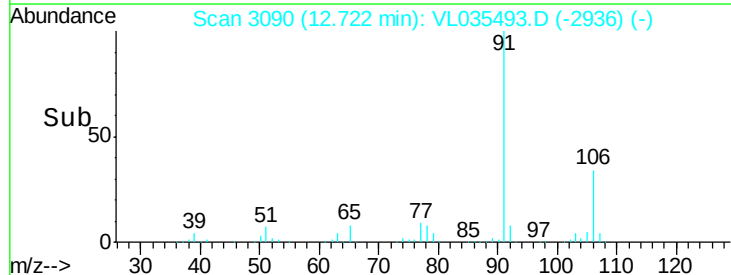
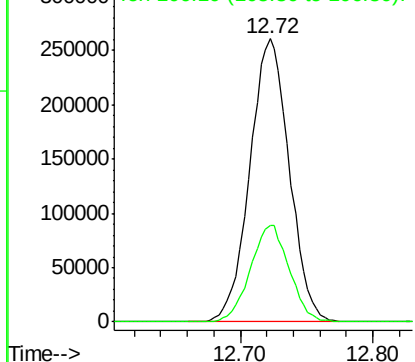


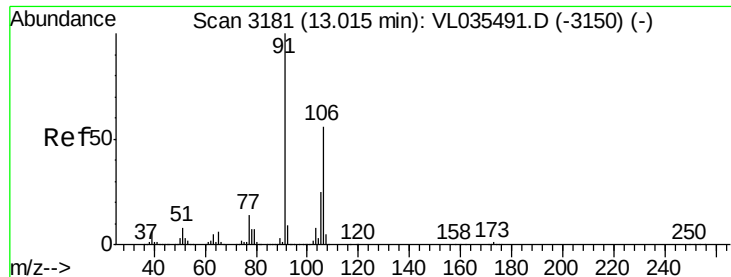
#58
Ethyl Benzene
Concen: 0.947 ppbv
RT: 12.72 min Scan# 3090
Delta R.T. -0.00 min
Lab File: VL035493.D
Acq: 23 Aug 2020 9:32

Tgt Ion: 91 Resp: 537706
Ion Ratio Lower Upper
91 100
106 34.0 30.2 45.2



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





#59

m/p-Xylene

Concen: 1.944 ppbv m

RT: 13.01 min Scan# 3179

Delta R.T. -0.01 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

Instrument :

MSVOA_L

ClientSampleId :

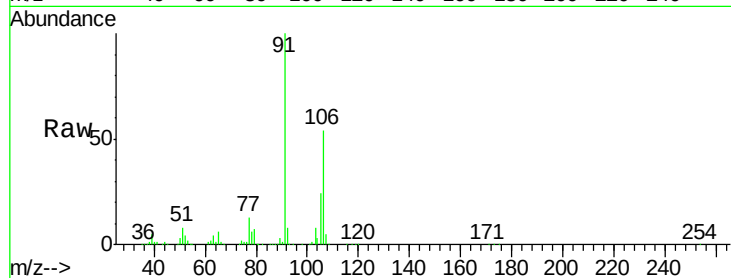
VSTDIC001

Tot Ion: 91 Resp: 932958

Ion Ratio Lower Upper

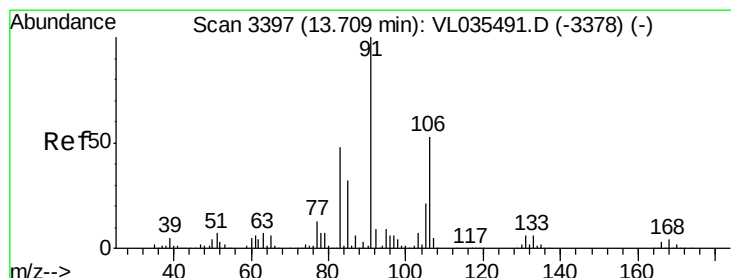
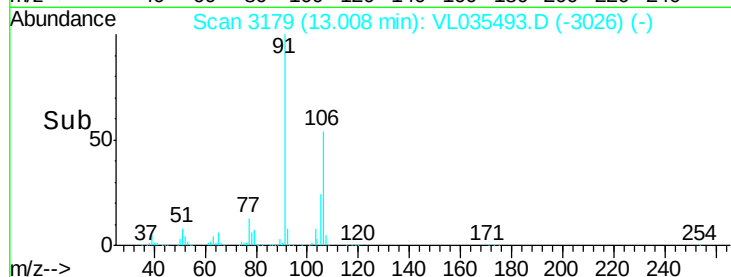
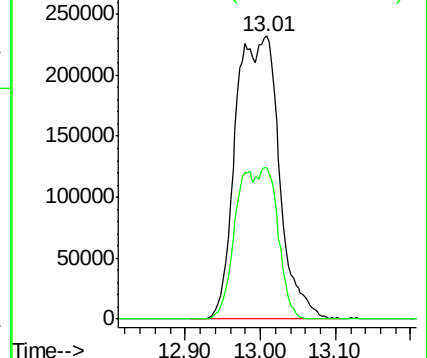
91 100

106 51.0 42.6 63.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.976 ppbv

RT: 13.70 min Scan# 3395

Delta R.T. -0.01 min

Lab File: VL035493.D

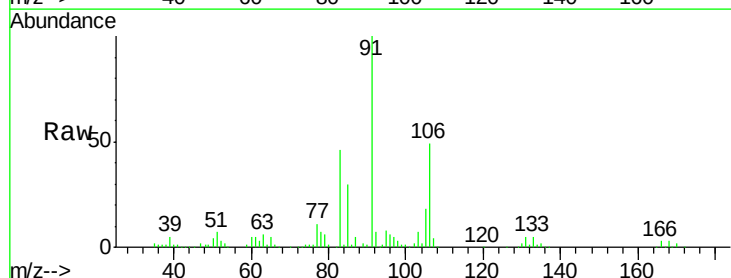
Acq: 23 Aug 2020 9:32

Tgt Ion: 91 Resp: 455463

Ion Ratio Lower Upper

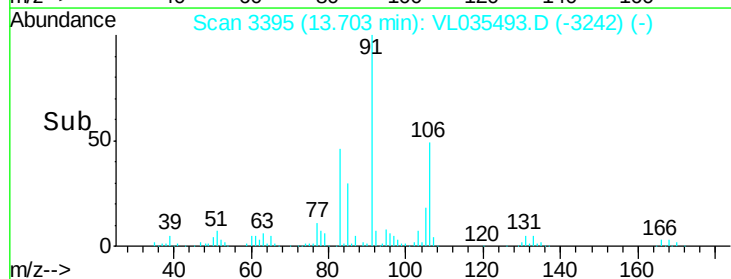
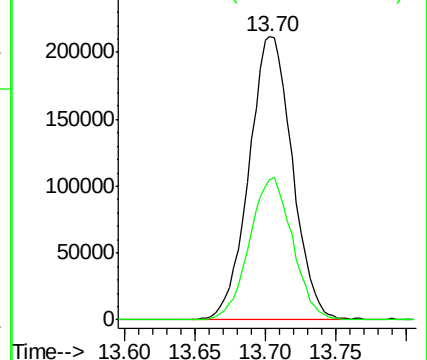
91 100

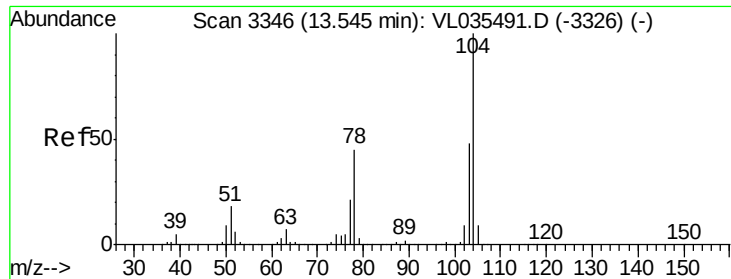
106 50.1 25.9 77.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Stvrene

Concen: 0.890 ppbv

RT: 13.54 min Scan# 3345

Delta R.T. -0.00 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

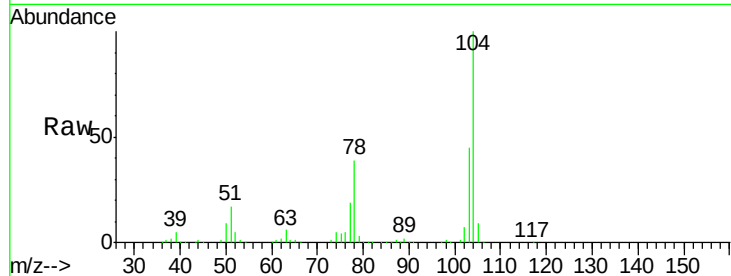
Tot Ion:104 Resp: 335316

Ion Ratio Lower Upper

104 100

78 40.8 34.7 52.1

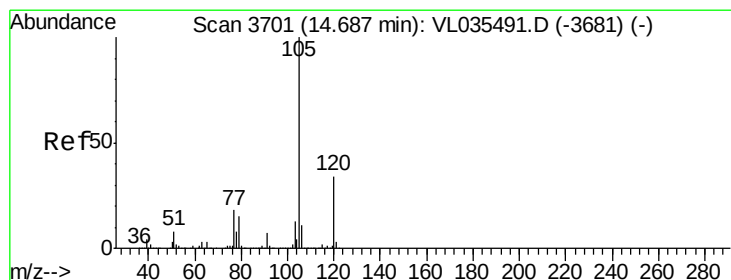
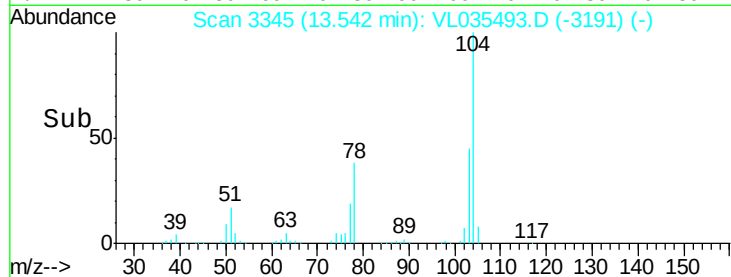
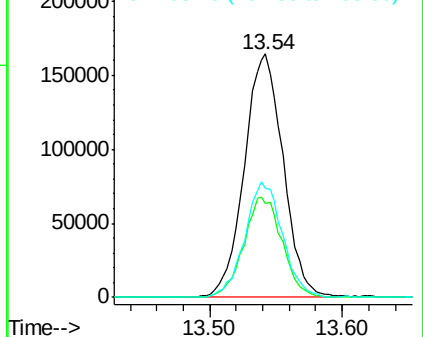
103 46.3 38.2 57.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.993 ppbv

RT: 14.68 min Scan# 3699

Delta R.T. -0.01 min

Lab File: VL035493.D

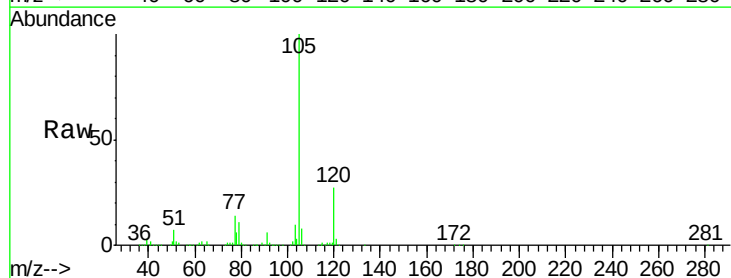
Acq: 23 Aug 2020 9:32

Tgt Ion:105 Resp: 759167

Ion Ratio Lower Upper

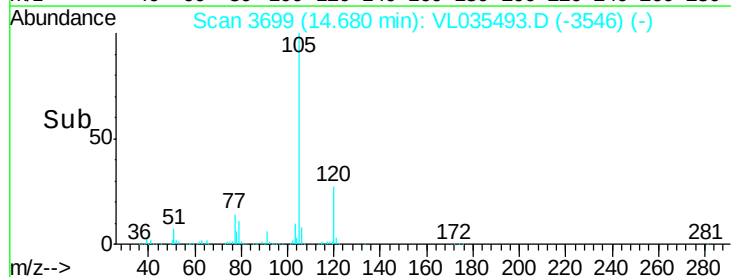
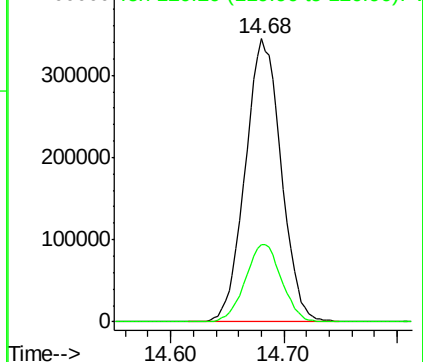
105 100

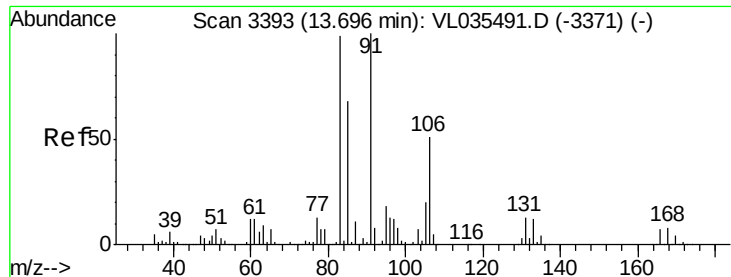
120 27.7 25.0 37.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

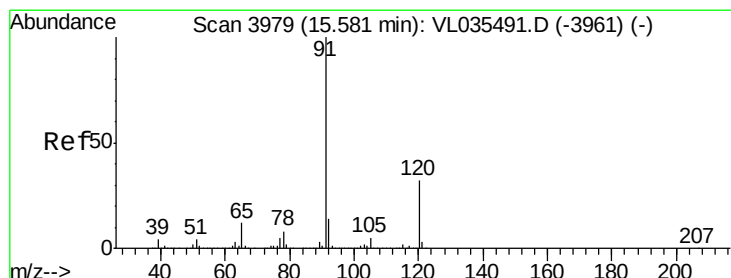
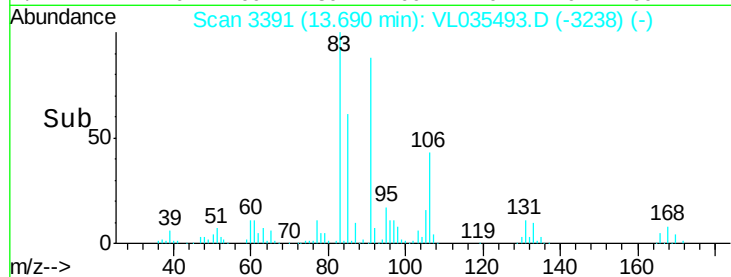
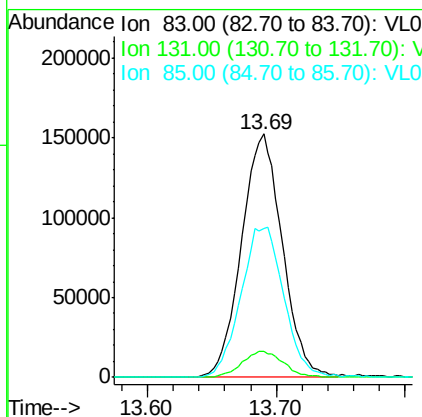
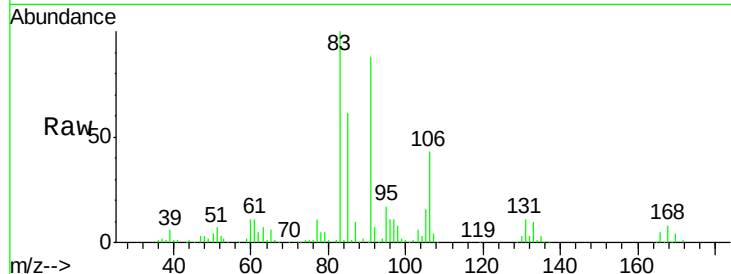




#63
 1,1,2,2-Tetrachloroethane
 Concen: 1.004 ppbv
 RT: 13.69 min Scan# 3391
 Delta R.T. -0.01 min
 Lab File: VL035493.D
 Acq: 23 Aug 2020 9:32

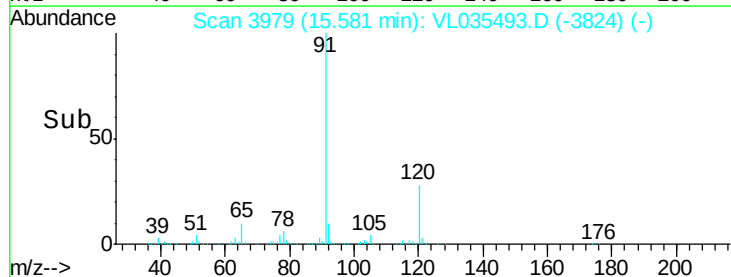
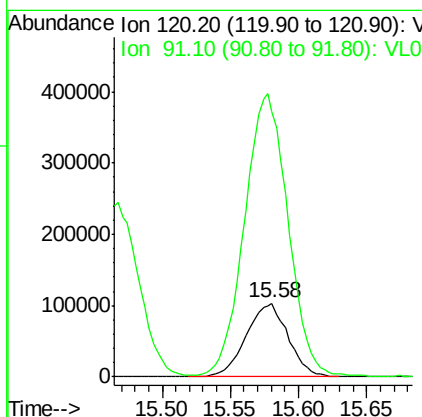
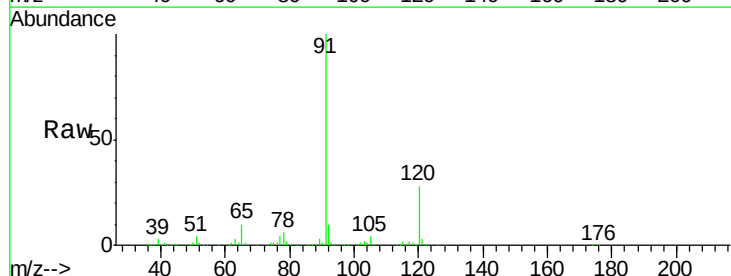
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

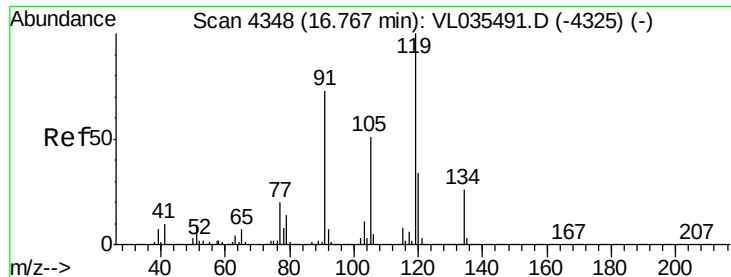
Tot Ion	83	Resp	336525
Ion Ratio	Lower	Upper	
83	100		
131	11.0	6.2	18.4
85	65.4	33.4	100.2



#64
 n-propylbenzene
 Concen: 0.932 ppbv
 RT: 15.58 min Scan# 3979
 Delta R.T. -0.00 min
 Lab File: VL035493.D
 Acq: 23 Aug 2020 9:32

Tgt Ion	120	Resp	219596
Ion Ratio	Lower	Upper	
120	100		
91	403.0	280.3	420.5

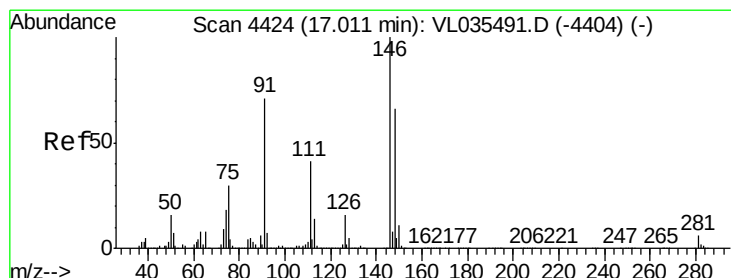
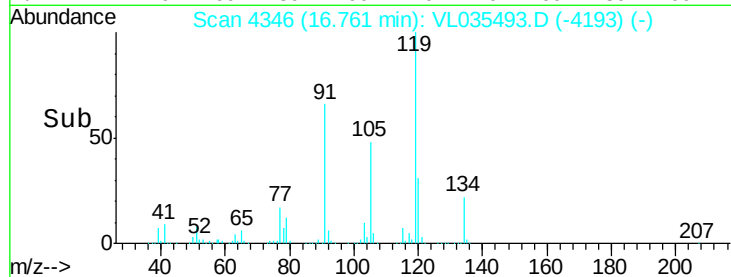
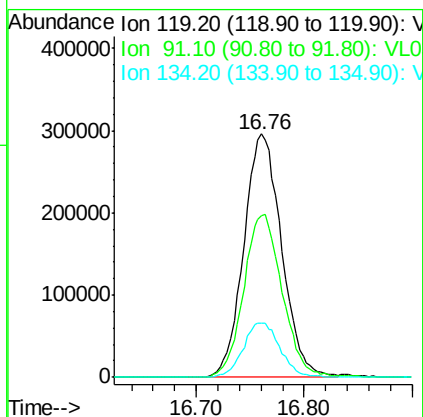
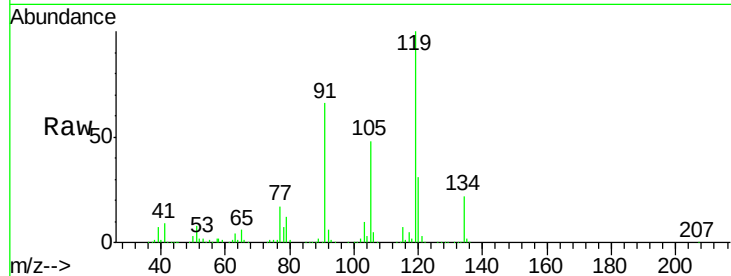




#65
 tert-Butylbenzene
 Concen: 0.969 ppbv
 RT: 16.76 min Scan# 4346
 Delta R.T. -0.01 min
 Lab File: VL035493.D
 Acq: 23 Aug 2020 9:32

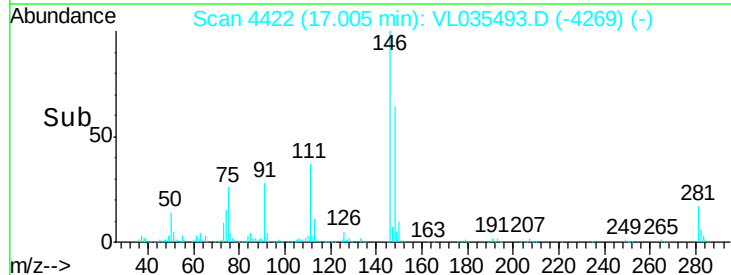
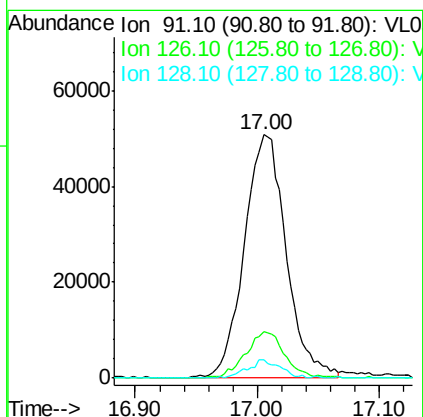
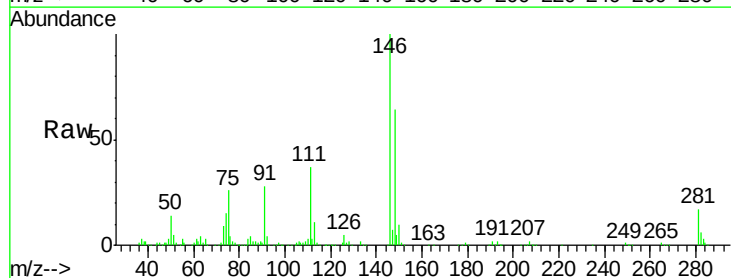
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

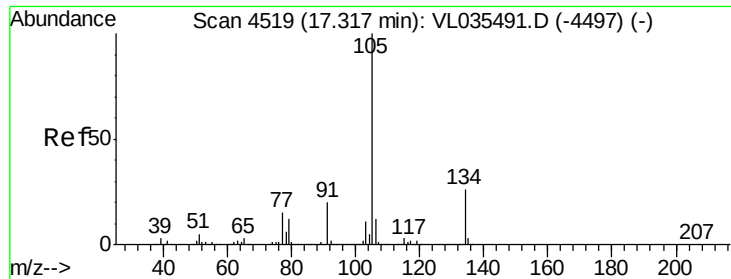
Tot Ion: 119 Resp: 720181
 Ion Ratio Lower Upper
 119 100
 91 68.4 57.8 86.8
 134 21.9 18.8 28.2



#66
 Benzyl Chloride
 Concen: 0.675 ppbv
 RT: 17.00 min Scan# 4422
 Delta R.T. -0.01 min
 Lab File: VL035493.D
 Acq: 23 Aug 2020 9:32

Tgt Ion: 91 Resp: 120538
 Ion Ratio Lower Upper
 91 100
 126 18.0 17.3 25.9
 128 5.9 5.6 8.4





#67

sec-Butylbenzene

Concen: 1.004 ppbv

RT: 17.31 min Scan# 4517

Delta R.T. -0.01 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

Instrument :

MSVOA_L

ClientSampleId :

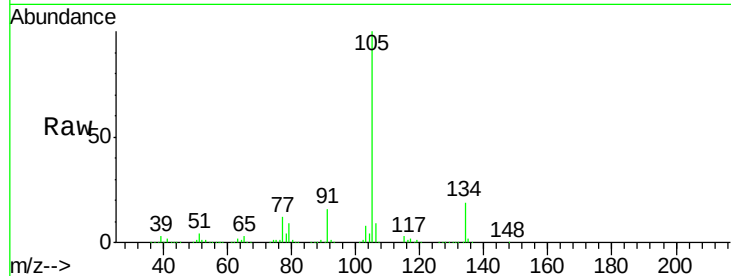
VSTDIC001

Tot Ion:105 Resp: 981535

Ion Ratio Lower Upper

105 100

134 20.2 19.1 28.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.31

400000

300000

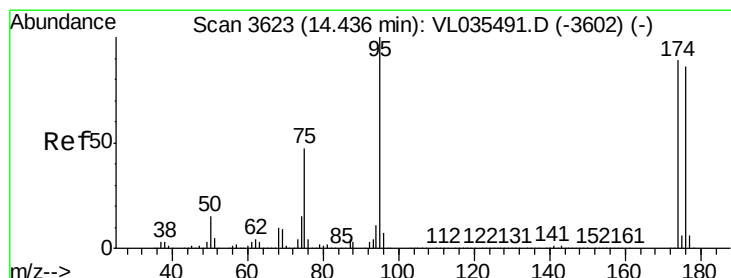
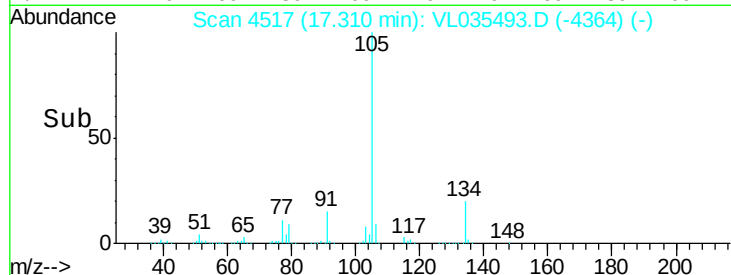
200000

100000

0

Time-->

17.20 17.30 17.40



#68

1-Bromo-4-Fluorobenzene

Concen: 10.172 ppbv

RT: 14.43 min Scan# 3621

Delta R.T. -0.01 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

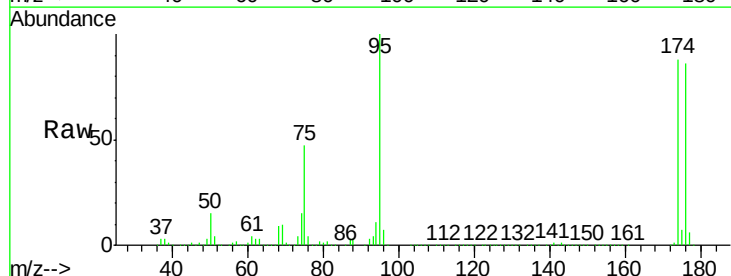
Tgt Ion: 95 Resp: 3349049

Ion Ratio Lower Upper

95 100

174 89.3 70.9 106.3

175 6.6 5.1 7.7



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

2000000

1500000

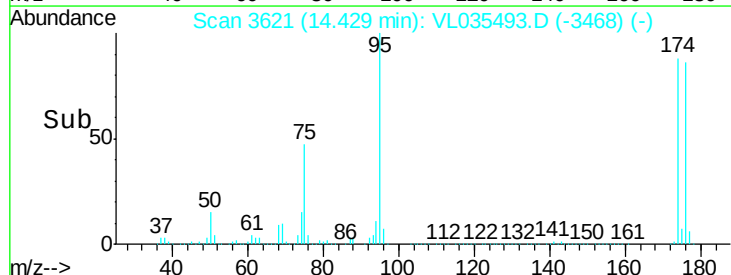
1000000

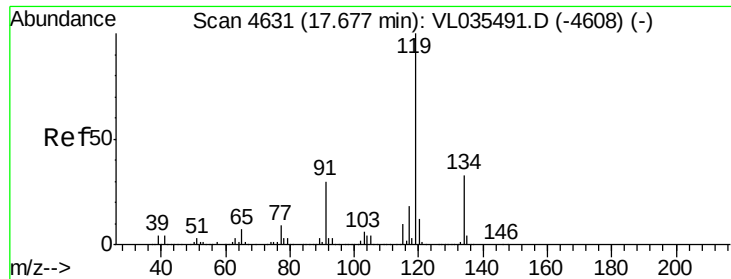
500000

0

Time-->

14.30 14.40 14.50

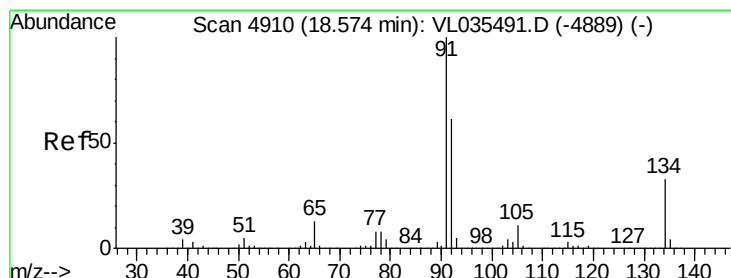
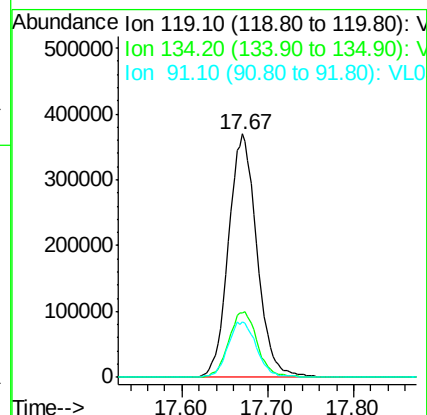
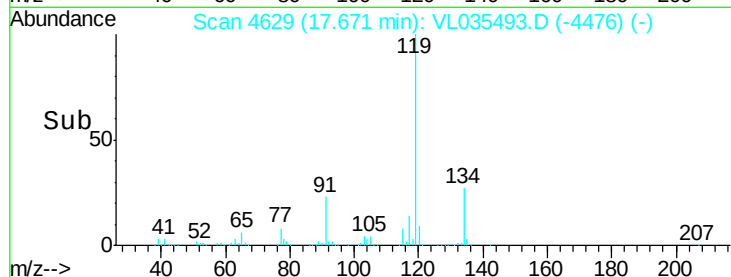
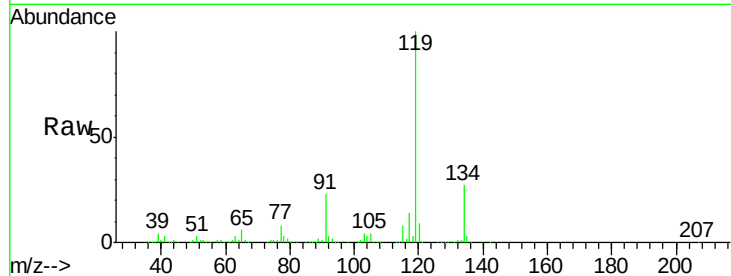




#69
 p-Isopropyltoluene
 Concen: 0.975 ppbv
 RT: 17.67 min Scan# 4629
 Delta R.T. -0.01 min
 Lab File: VL035493.D
 Acq: 23 Aug 2020 9:32

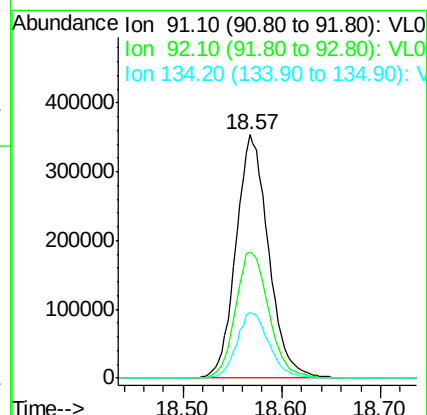
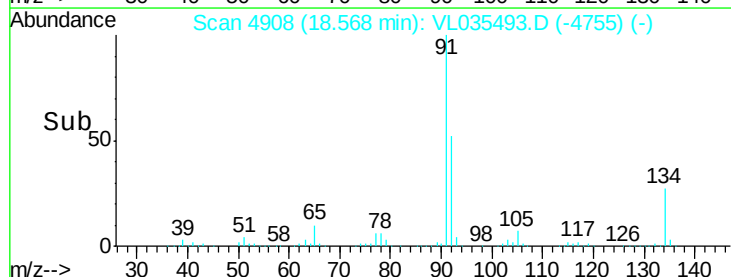
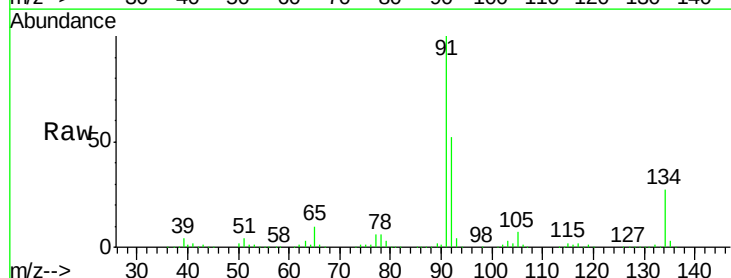
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

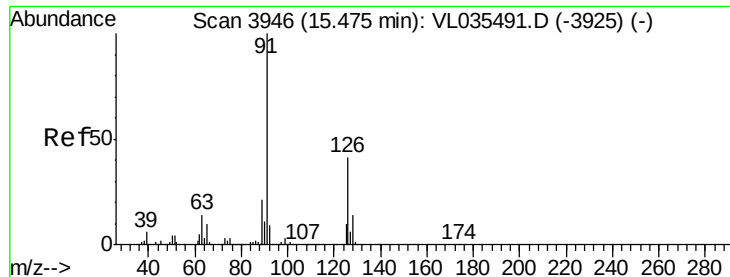
Tot Ion	Ratio	Lower	Upper
119	100		
134	27.3	24.9	37.3
91	23.5	22.0	33.0



#70
 n-Butylbenzene
 Concen: 0.983 ppbv
 RT: 18.57 min Scan# 4908
 Delta R.T. -0.01 min
 Lab File: VL035493.D
 Acq: 23 Aug 2020 9:32

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.3	47.0	70.6
134	26.8	24.9	37.3





#71

2-Chlorotoluene

Concen: 0.961 ppbv

RT: 15.47 min Scan# 3944

Delta R.T. -0.01 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

Instrument :

MSVOA_L

ClientSampleId :

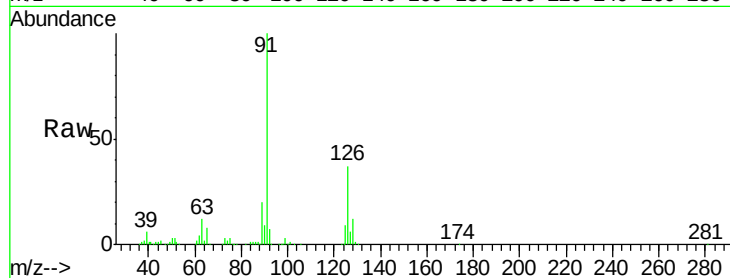
VSTDIC001

Tot Ion: 91 Resp: 532836

Ion Ratio Lower Upper

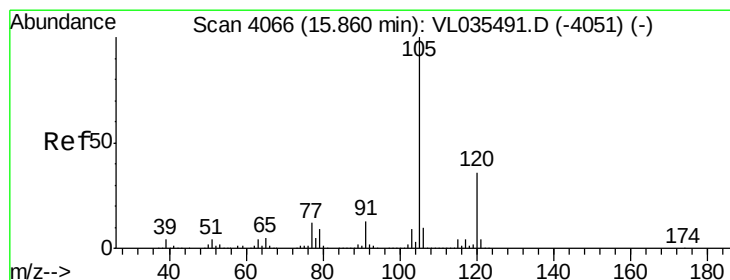
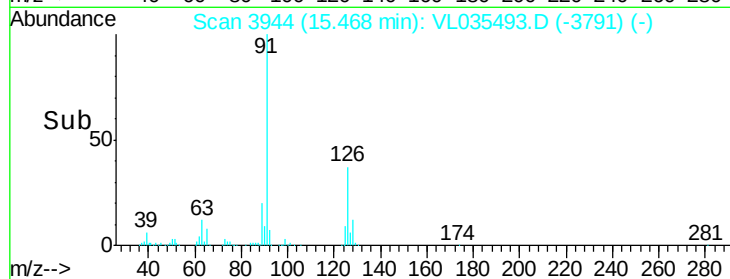
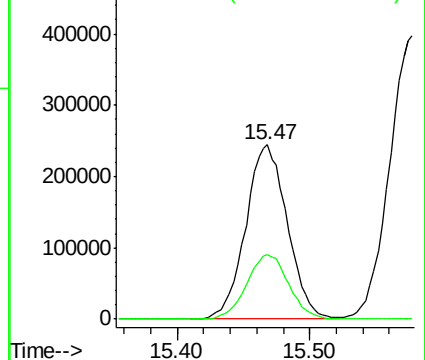
91 100

126 37.3 15.8 63.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.942 ppbv

RT: 15.85 min Scan# 4064

Delta R.T. -0.01 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

Tgt Ion: 105 Resp: 576756

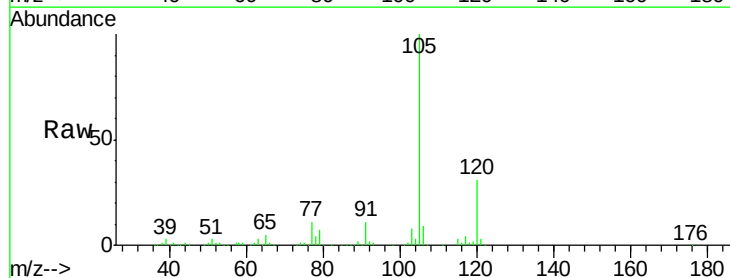
Ion Ratio Lower Upper

105 100

120 32.4 27.4 41.0

91 11.4 9.5 14.3

77 11.1 9.4 14.2

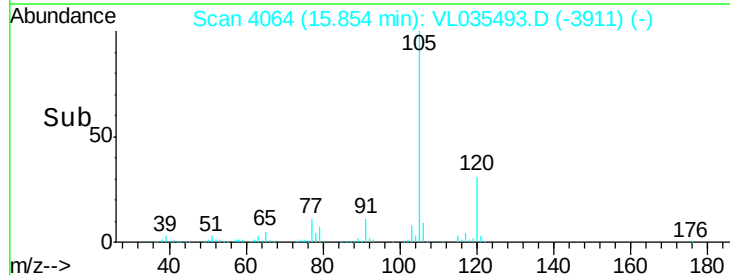
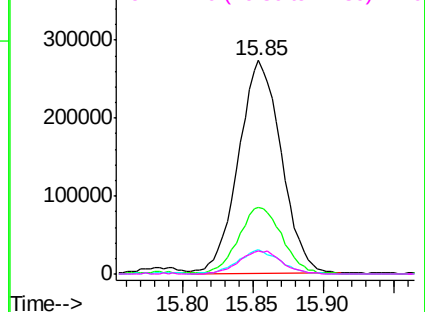


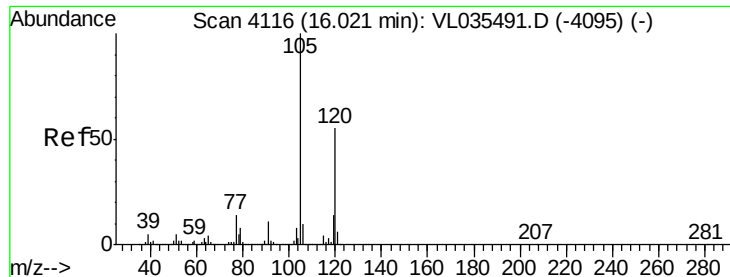
Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.936 ppbv

RT: 16.01 min Scan# 4113

Delta R.T. -0.01 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

Instrument :

MSVOA_L

ClientSampleId :

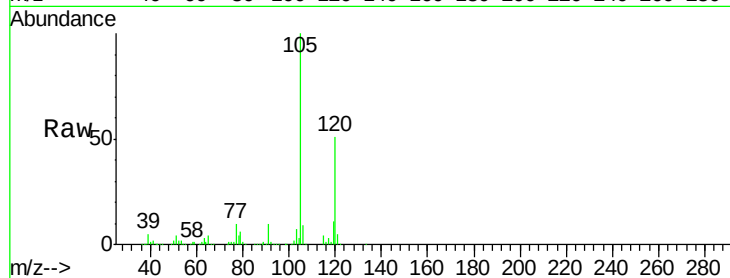
VSTDIC001

Tot Ion:105 Resp: 533086

Ion Ratio Lower Upper

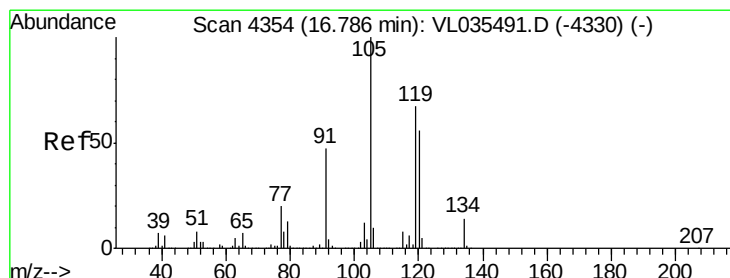
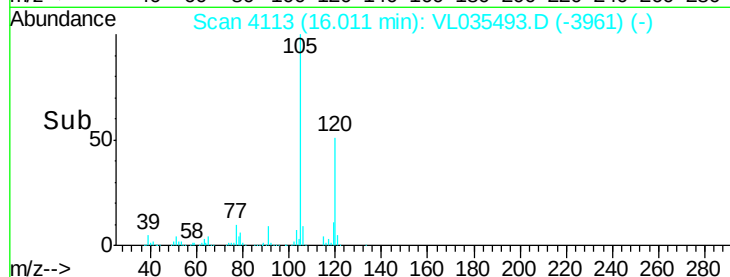
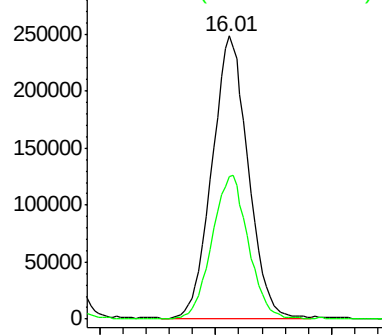
105 100

120 50.6 43.9 65.9



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: 0.974 ppbv

RT: 16.78 min Scan# 4351

Delta R.T. -0.01 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

Tgt Ion:105 Resp: 602771

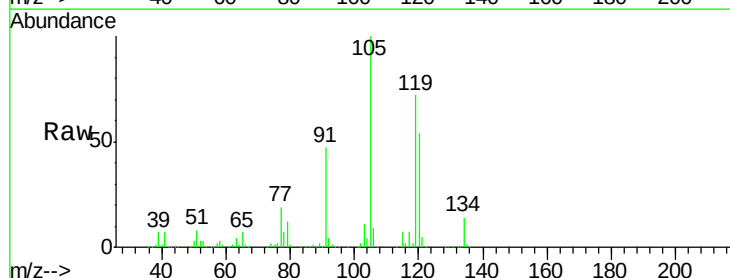
Ion Ratio Lower Upper

105 100

120 53.6 44.7 67.1

91 46.5 37.5 56.3

77 18.4 16.2 24.2

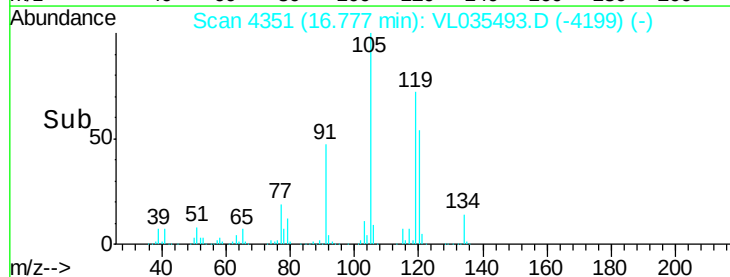
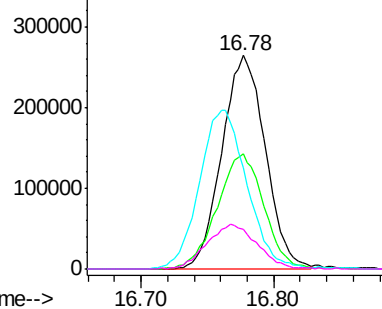


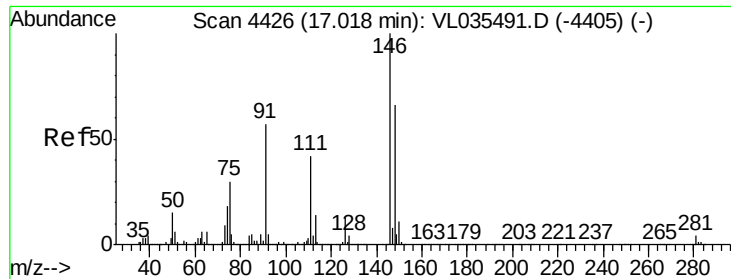
Abundance Ion 105.10 (104.80 to 105.80): V

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

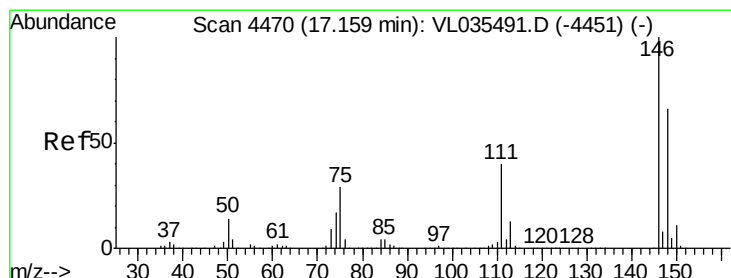
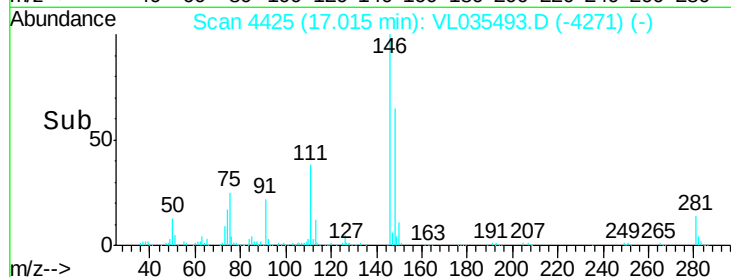
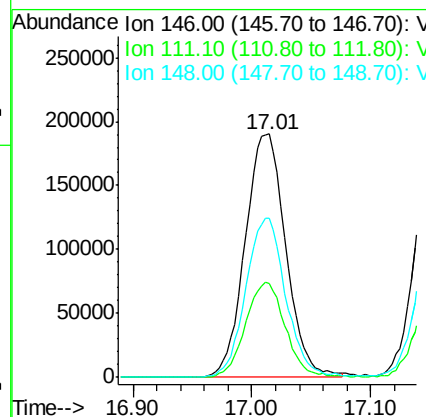
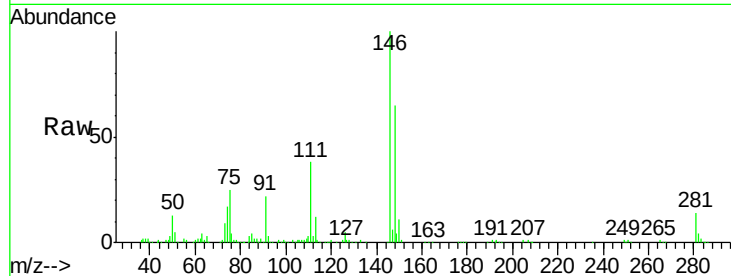




#75
 1,3-Dichlorobenzene
 Concen: 0.941 ppbv
 RT: 17.01 min Scan# 4425
 Delta R.T. -0.00 min
 Lab File: VL035493.D
 Acq: 23 Aug 2020 9:32

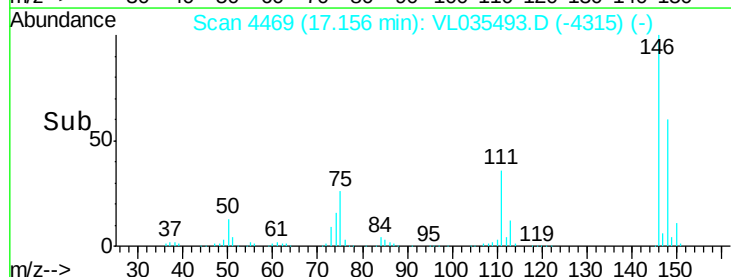
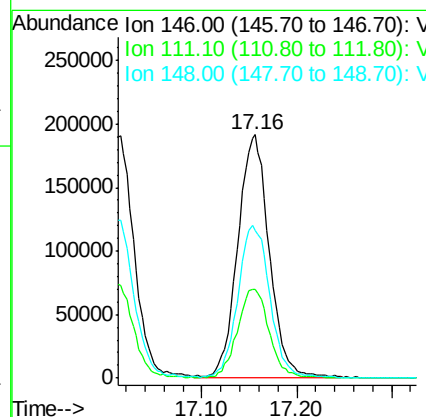
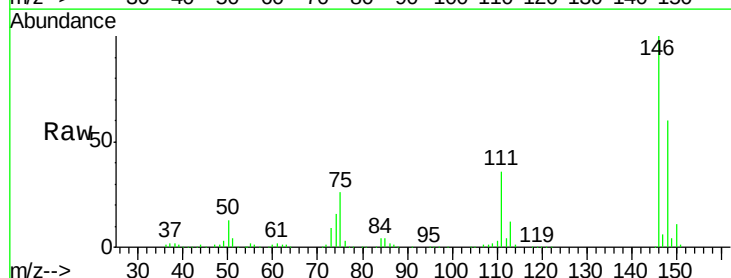
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

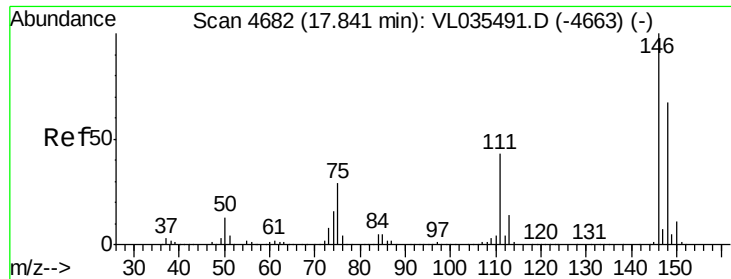
Tot Ion	Ratio	Lower	Upper
146	100		
111	38.3	20.3	61.0
148	64.5	33.1	99.5



#76
 1,4-Dichlorobenzene
 Concen: 0.943 ppbv m
 RT: 17.16 min Scan# 4469
 Delta R.T. -0.00 min
 Lab File: VL035493.D
 Acq: 23 Aug 2020 9:32

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.0	19.6	58.8
148	64.2	32.8	98.3





#77

1,2-Dichlorobenzene

Concen: 0.939 ppbv

RT: 17.84 min Scan# 4681

Delta R.T. -0.00 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

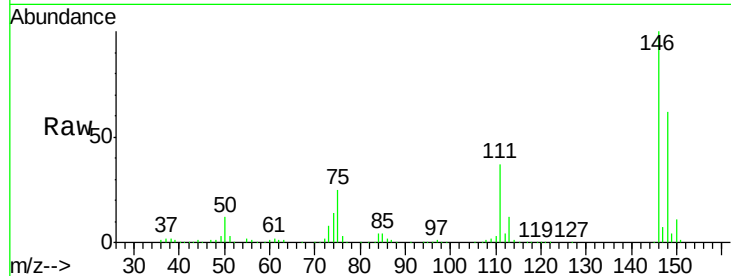
Tot Ion:146 Resp: 439416

Ion Ratio Lower Upper

146 100

111 39.6 21.0 63.0

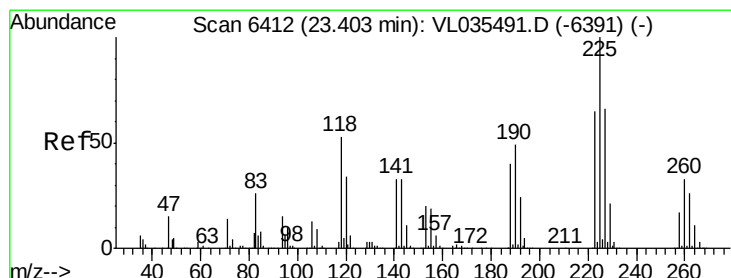
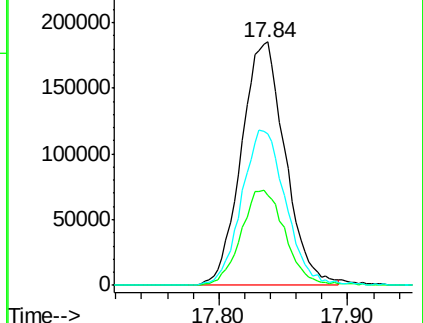
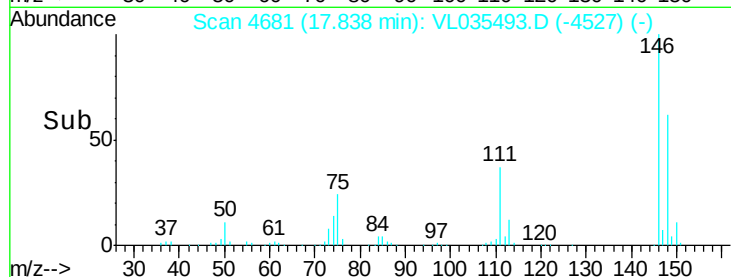
148 64.4 33.0 98.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 0.825 ppbv

RT: 23.40 min Scan# 6411

Delta R.T. -0.00 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

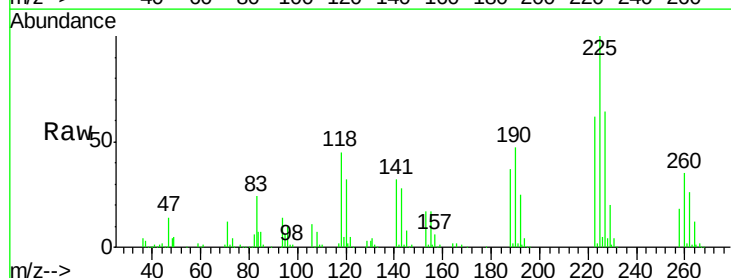
Tgt Ion:225 Resp: 305273

Ion Ratio Lower Upper

225 100

223 63.3 51.4 77.2

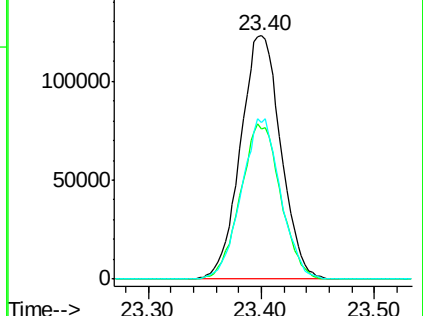
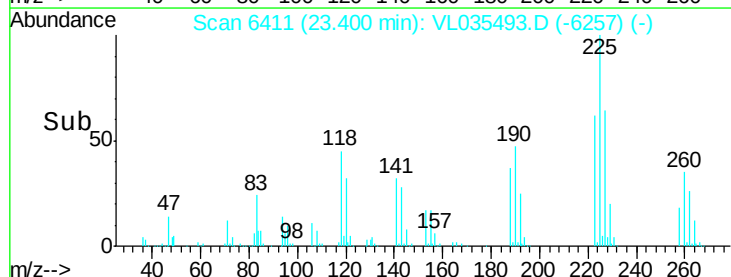
227 63.9 51.7 77.5

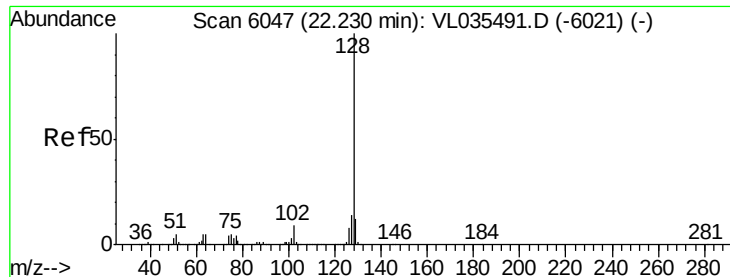


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 0.838 ppbv

RT: 22.23 min Scan# 6046

Delta R.T. -0.00 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

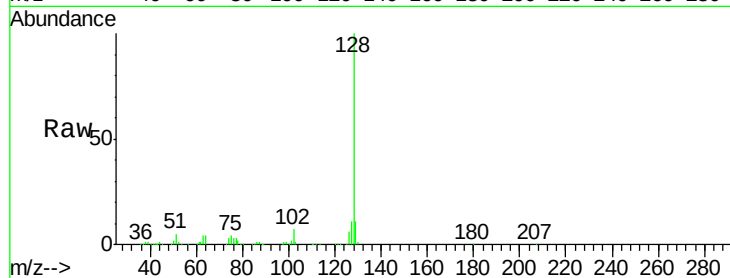
Tot Ion:128 Resp: 730211

Ion Ratio Lower Upper

128 100

127 11.2 11.4 17.0#

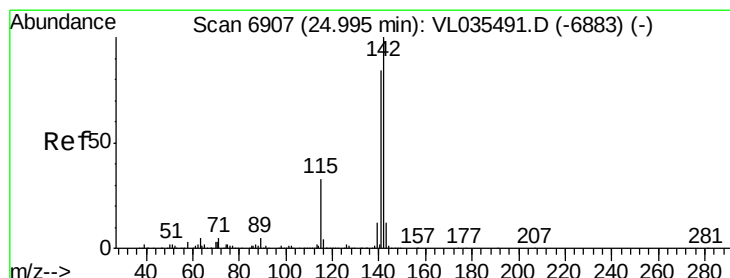
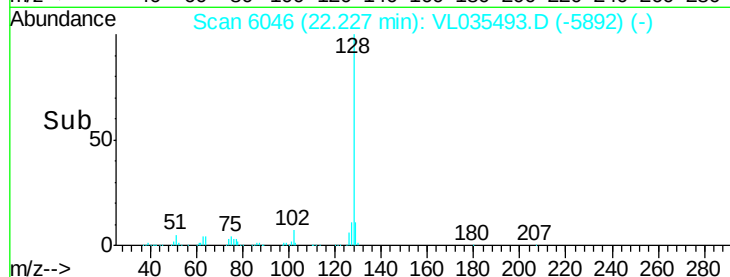
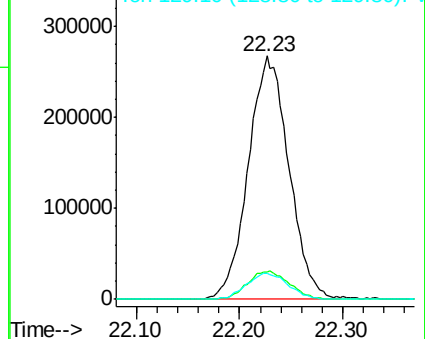
129 10.8 9.8 14.6



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: 0.728 ppbv

RT: 24.99 min Scan# 6907

Delta R.T. -0.00 min

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Acq: 23 Aug 2020 9:32

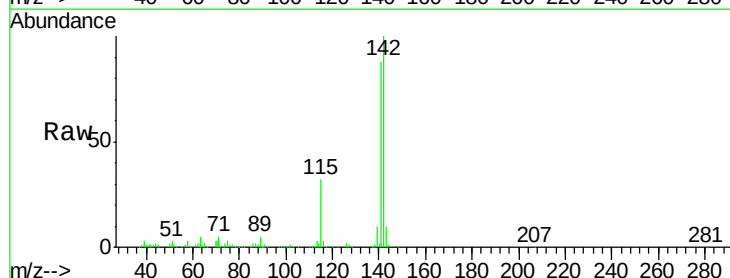
Tgt Ion:142 Resp: 262283

Ion Ratio Lower Upper

142 100

141 83.7 67.1 100.7

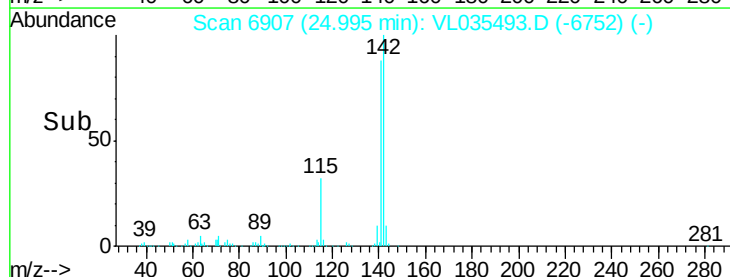
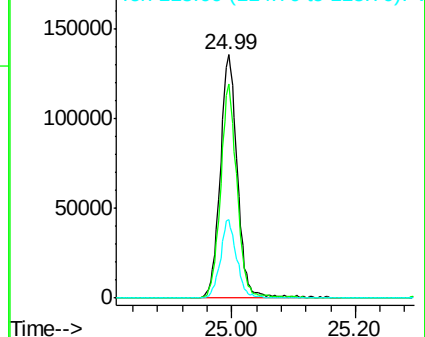
115 30.4 25.6 38.4

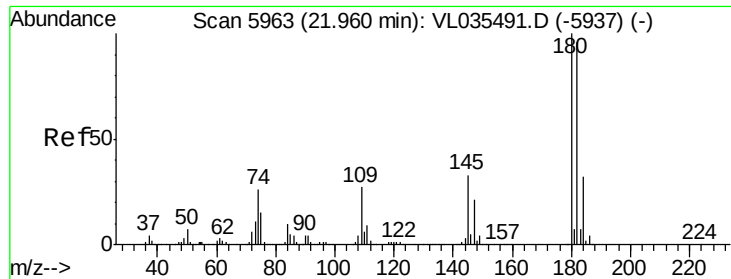


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81

1,2,4-Trichlorobenzene

Concen: 0.822 ppbv

RT: 21.96 min Scan# 5962

Delta R.T. -0.00 min

Lab File: VL035493.D

Acq: 23 Aug 2020 9:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

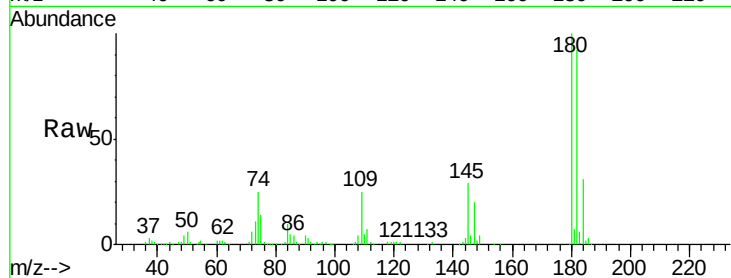
Tot Ion:180 Resp: 431871

Ion Ratio Lower Upper

180 100

182 95.5 76.6 115.0

184 30.3 25.4 38.0



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

