

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL051719\
 Data File : VL033702.D
 Acq On : 17 May 2019 3:18
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Quant Time: May 17 07:11:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 07:07:57 2019
 QLast Update : Fri May 17 07:07:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1131261	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2687465	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2665915	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	2139470	9.79	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	254233	0.983	ppbv	100
3) Chlorodifluoromethane	3.01	51	145354	0.896	ppbv	97
4) Chloromethane	3.17	50	75746	0.897	ppbv	97
5) Vinyl Chloride	3.29	62	74387	0.905	ppbv	95
6) Bromomethane	3.52	94	45383	0.867	ppbv	99
7) Chloroethane	3.60	64	26372	0.881	ppbv	91
8) Dichlorotetrafluoroethane	3.22	85	195736	0.904	ppbv	99
9) Propene	3.03	41	54338	0.875	ppbv	95
10) Heptane	8.24	43	149533	0.971	ppbv	98
11) Trichlorofluoromethane	4.00	101	224137	0.900	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	152449	0.908	ppbv	98
13) Ethanol	3.66	45	20913	1.105	ppbv	94
14) Bromoethene	3.79	108	57066	0.881	ppbv	99
15) Acetone	3.90	43	162147	0.957	ppbv	99
16) 1,3-Butadiene	3.36	39	57657	0.811	ppbv	92
17) tert-Butyl alcohol	4.36	59	125625	0.964	ppbv	97
18) 1,1-Dichloroethene	4.35	96	64096	0.886	ppbv	93
19) Isopropyl Alcohol	4.03	45	100821	0.953	ppbv	# 96
20) Methylene Chloride	4.41	84	60225	0.940	ppbv	98
21) Allyl Chloride	4.47	41	87590	0.851	ppbv	97
22) trans-1,2-Dichloroethene	4.96	96	66212	0.923	ppbv	93
23) Vinyl Acetate	5.15	43	186255	0.853	ppbv	# 94
24) 1,1-Dichloroethane	5.08	63	156234	0.947	ppbv	99
25) Ethyl Acetate	5.77	43	285075	1.033	ppbv	99
26) Hexane	5.78	57	123032	1.037	ppbv	96
27) Carbon Disulfide	4.62	76	143291	0.880	ppbv	97
28) Methyl tert-Butyl Ether	5.12	73	182938	0.923	ppbv	98
29) Chloroform	5.84	83	216213	1.016	ppbv	98
30) Cyclohexane	7.24	84	91200	0.921	ppbv	96
31) cis-1,2-Dichloroethene	5.64	61	117629	1.009	ppbv	90
32) 1,1,1-Trichloroethane	6.61	97	216908	0.991	ppbv	99
34) 2-Butanone	5.34	43	172676	1.001	ppbv	100
35) Carbon Tetrachloride	7.13	117	222572	1.006	ppbv	99
36) Benzene	7.00	78	241028	0.993	ppbv	97
37) 1,2-Dichloroethane	6.41	62	160478	0.948	ppbv	100
38) Trichloroethene	7.96	130	94715	1.069	ppbv	95
39) 1,2-Dichloropropane	7.73	63	93407	1.032	ppbv	95
40) 1,4-Dioxane	7.97	88	28482	0.778	ppbv	# 61
41) Tetrahydrofuran	6.16	42	88596	0.982	ppbv	99
42) Bromodichloromethane	7.91	83	215302	0.990	ppbv	98
43) Methyl Methacrylate	8.14	69	86268	0.947	ppbv	98

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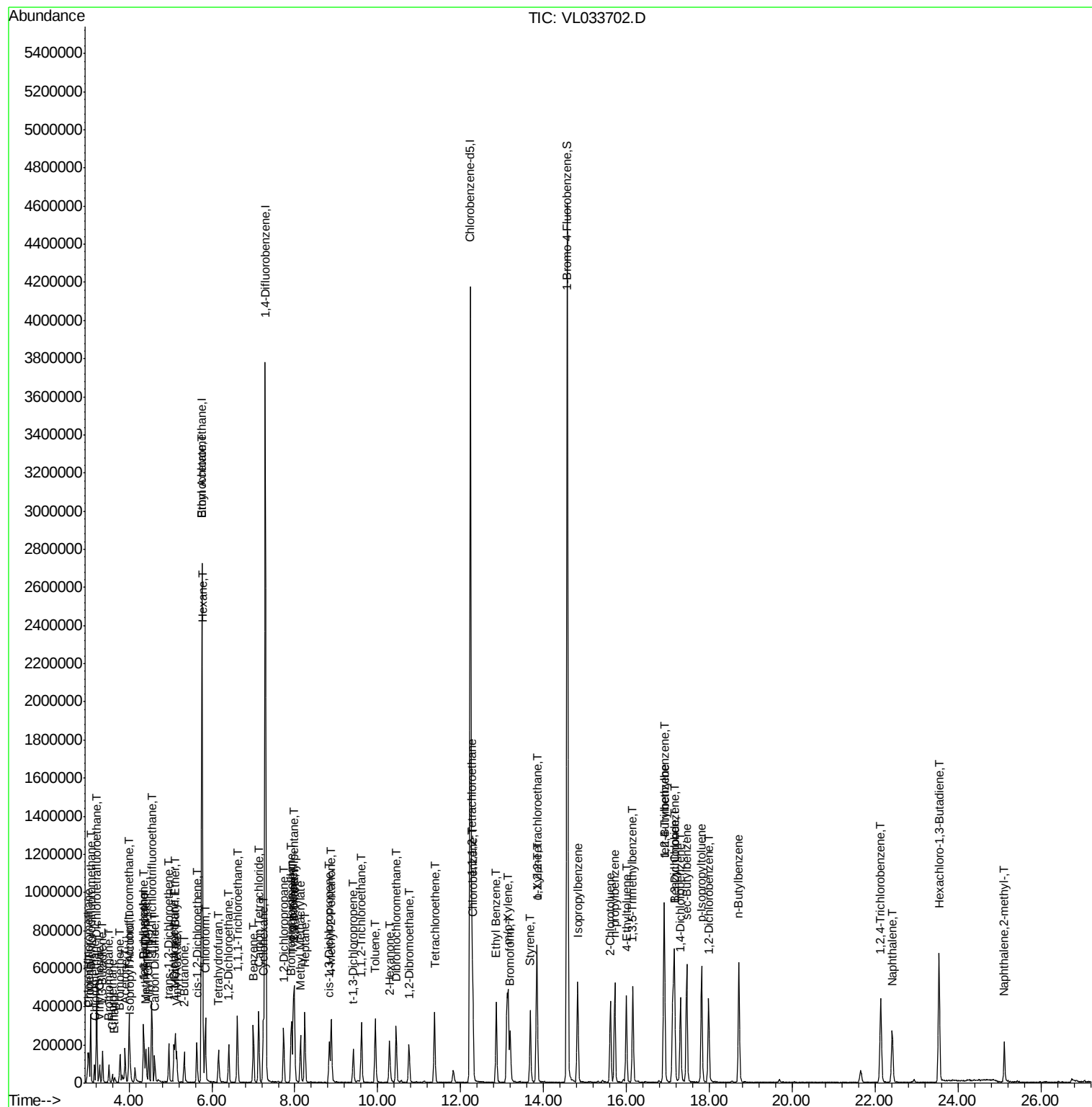
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	427811	1.032	ppbv	98
45) t-1,3-Dichloropropene	9.41	75	97454	0.866	ppbv	97
46) cis-1,3-Dichloropropene	8.83	75	120494	0.861	ppbv	96
47) 1,1,2-Trichloroethane	9.61	97	105441	1.014	ppbv	91
48) Dibromochloromethane	10.44	129	172771	0.978	ppbv	98
49) Bromoform	13.19	173	142150	0.941	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	260869	0.998	ppbv	97
51) 2-Hexanone	10.28	43	190014	0.933	ppbv #	95
52) Tetrachloroethene	11.36	164	44622	0.518	ppbv	95
53) Toluene	9.94	91	254592	0.967	ppbv	99
54) 1,2-Dibromoethane	10.76	107	156387	0.996	ppbv	91
56) 1,1,1,2-Tetrachloroethane	12.27	131	126308	1.019	ppbv #	1
57) Chlorobenzene	12.30	112	231566	1.048	ppbv #	92
58) Ethyl Benzene	12.86	91	358622	1.021	ppbv	93
59) m/p-Xylene	13.14	91	12040	0.039	ppbv #	1
60) o-Xylene	13.84	91	323509	1.036	ppbv	99
61) Styrene	13.68	104	202113	0.970	ppbv	99
62) Isopropylbenzene	14.82	105	428739	1.004	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.83	83	241385	1.066	ppbv	99
64) n-propylbenzene	15.72	120	112840	1.024	ppbv	96
65) tert-Butylbenzene	16.90	119	396198	1.012	ppbv	97
66) Benzyl Chloride	17.15	91	159023	0.887	ppbv #	99
67) sec-Butylbenzene	17.45	105	555133	1.018	ppbv	99
69) p-Isopropyltoluene	17.81	119	448416	0.997	ppbv	98
70) n-Butylbenzene	18.71	91	479001	1.008	ppbv	98
71) 2-Chlorotoluene	15.61	91	316194	1.003	ppbv	99
72) 4-Ethyltoluene	15.99	105	360124	0.982	ppbv	98
73) 1,3,5-Trimethylbenzene	16.15	105	360242	1.018	ppbv	98
74) 1,2,4-Trimethylbenzene	16.92	105	396061	1.004	ppbv	99
75) 1,3-Dichlorobenzene	17.16	146	112439	0.473	ppbv #	11
76) 1,4-Dichlorobenzene	17.30	146	221309	0.982	ppbv	97
77) 1,2-Dichlorobenzene	17.98	146	223137	1.012	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	175606	1.004	ppbv	99
79) Naphthalene	22.41	128	332278	0.921	ppbv	96
80) Naphthalene,2-methyl-	25.11	142	106835	0.776	ppbv	97
81) 1,2,4-Trichlorobenzene	22.13	180	204215	0.974	ppbv	98

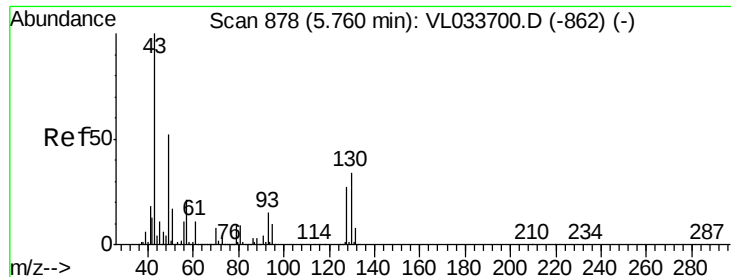
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri May 17 07:07:57 2019
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.00 min

Lab File: VL033702.D

Acq: 17 May 2019 3:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

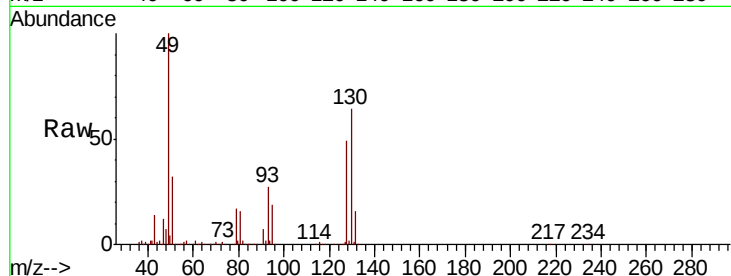
Tgt Ion: 49 Resp: 1131261

Ion Ratio Lower Upper

49 100

128 49.8 25.2 75.6

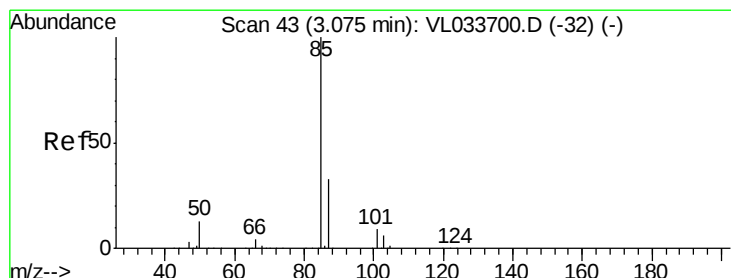
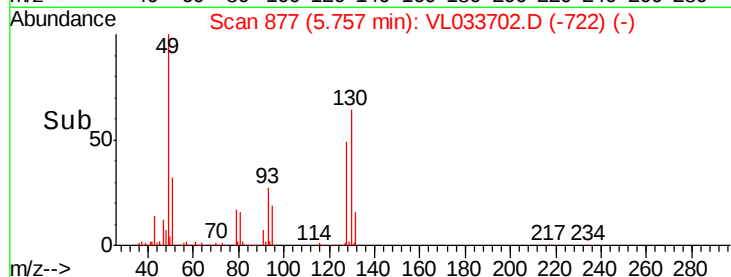
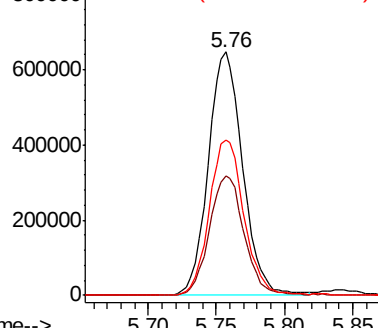
130 65.2 32.5 97.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.983 ppbv

RT: 3.08 min Scan# 43

Delta R.T. 0.00 min

Lab File: VL033702.D

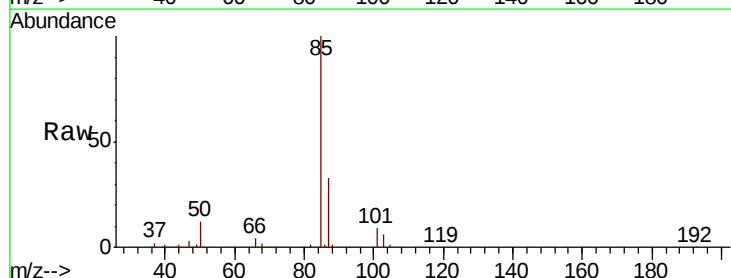
Acq: 17 May 2019 3:18

Tgt Ion: 85 Resp: 254233

Ion Ratio Lower Upper

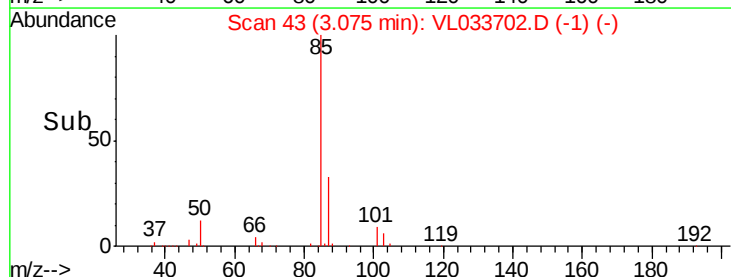
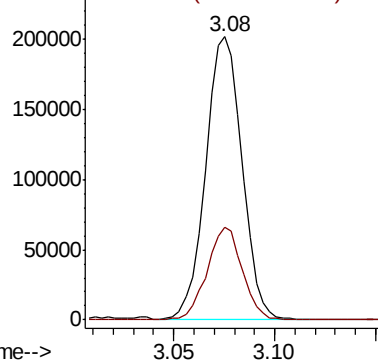
85 100

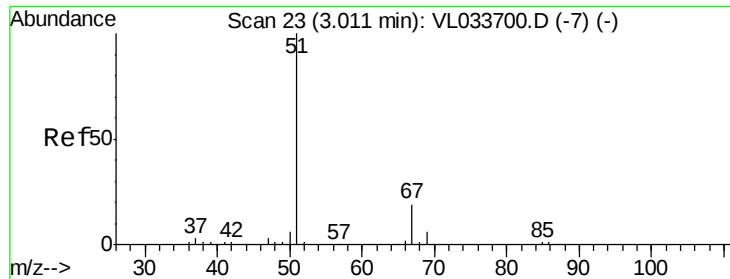
87 33.0 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

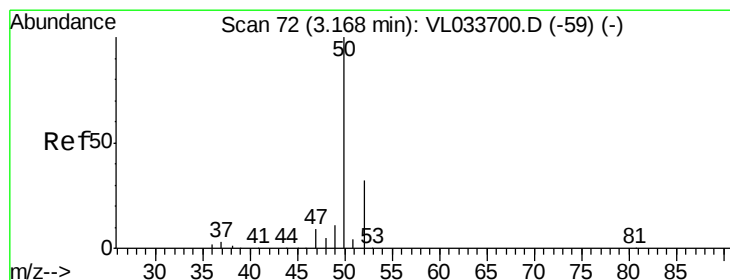
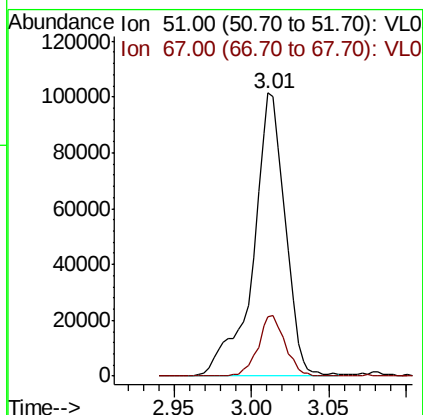
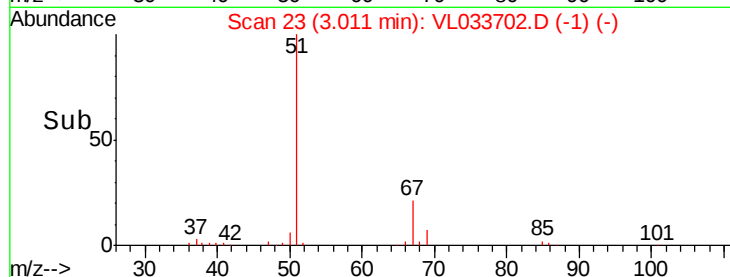
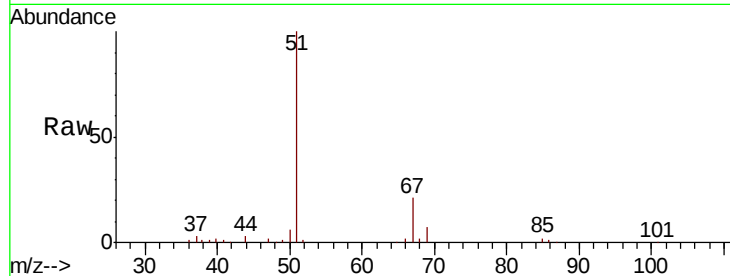




#3
 Chlorodifluoromethane
 Concen: 0.896 ppbv
 RT: 3.01 min Scan# 23
 Delta R.T. 0.00 min
 Lab File: VL033702.D
 Acq: 17 May 2019 3:18

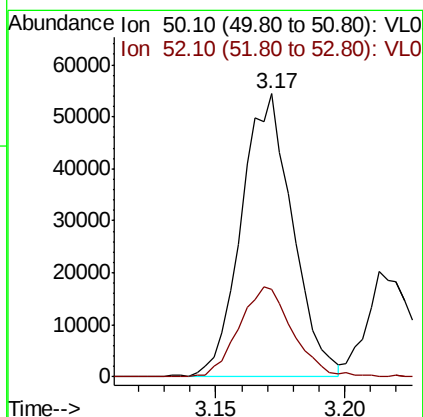
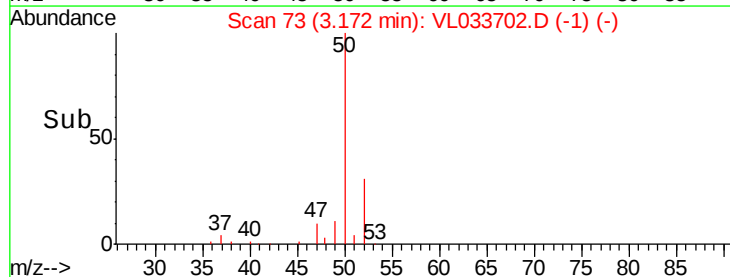
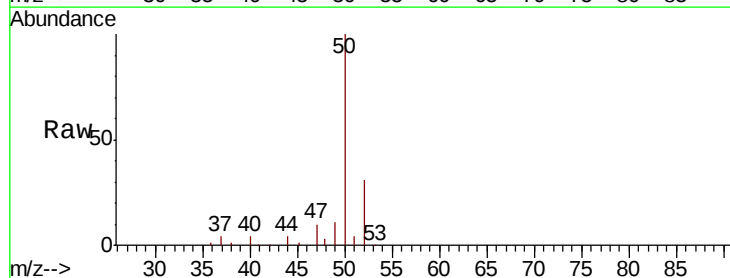
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

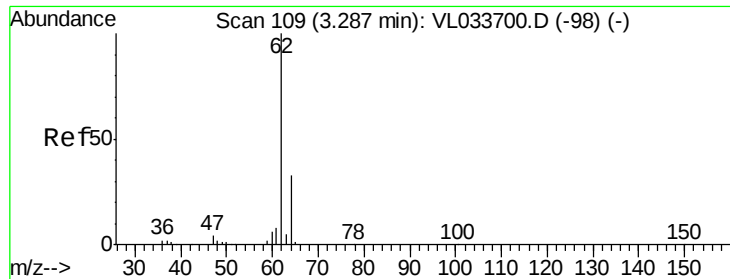
Tgt Ion: 51 Resp: 145354
 Ion Ratio Lower Upper
 51 100
 67 18.2 15.6 23.4



#4
 Chloromethane
 Concen: 0.897 ppbv
 RT: 3.17 min Scan# 73
 Delta R.T. 0.00 min
 Lab File: VL033702.D
 Acq: 17 May 2019 3:18

Tgt Ion: 50 Resp: 75746
 Ion Ratio Lower Upper
 50 100
 52 30.3 25.7 38.5





#5

Vinyl Chloride

Concen: 0.905 ppbv

RT: 3.29 min Scan# 110

Delta R.T. 0.00 min

Lab File: VL033702.D

Acq: 17 May 2019 3:18

Instrument :

MSVOA_L

ClientSampleId :

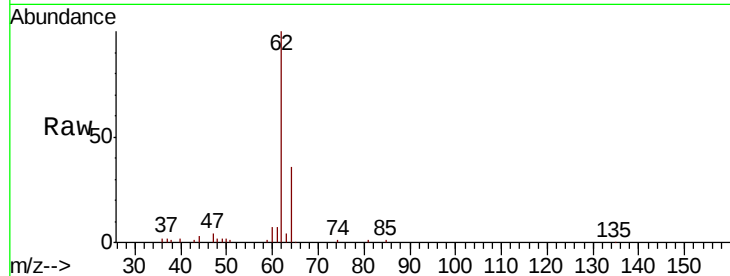
VSTDIC001

Tgt Ion: 62 Resp: 74387

Ion Ratio Lower Upper

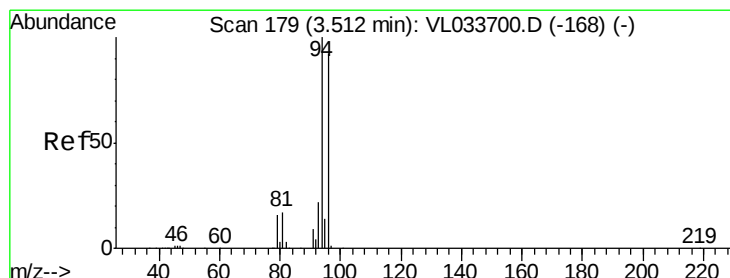
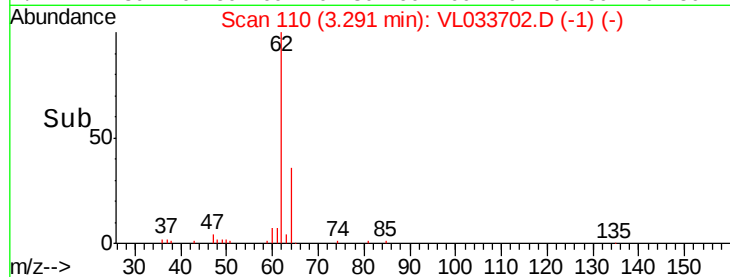
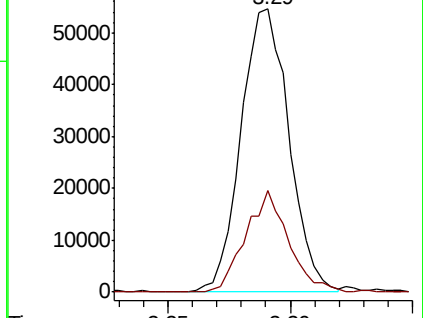
62 100

64 36.1 26.4 39.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.867 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033702.D

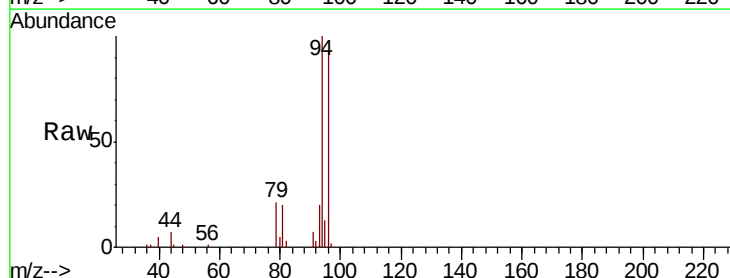
Acq: 17 May 2019 3:18

Tgt Ion: 94 Resp: 45383

Ion Ratio Lower Upper

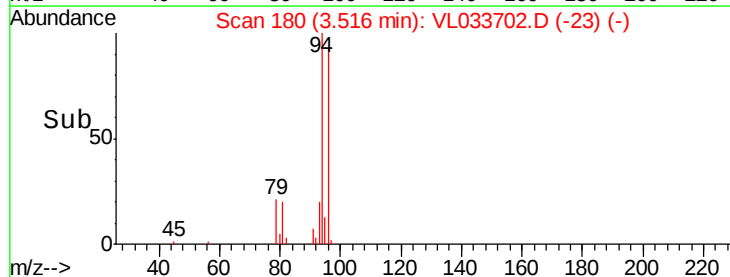
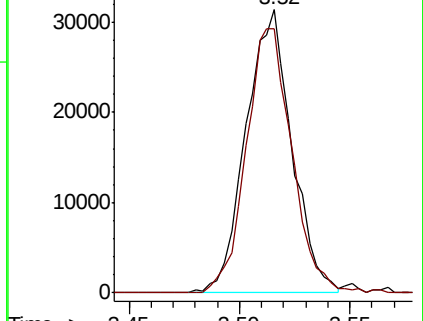
94 100

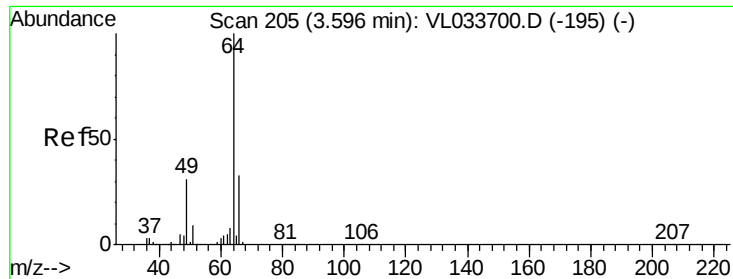
96 93.2 73.6 110.4



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.881 ppbv

RT: 3.60 min Scan# 205

Delta R.T. 0.00 min

Lab File: VL033702.D

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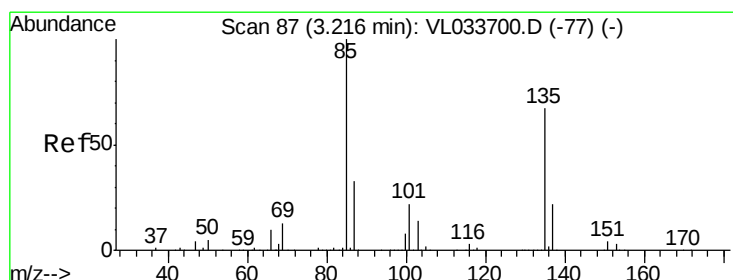
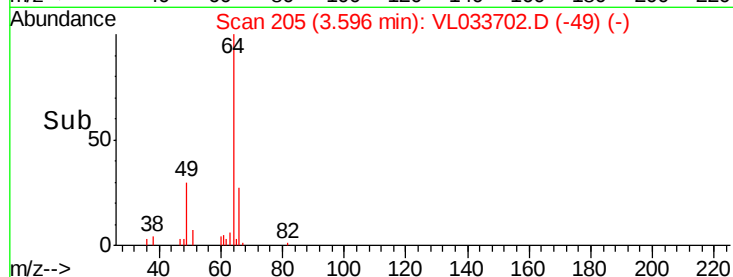
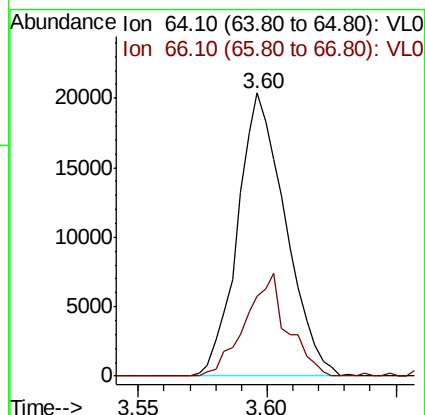
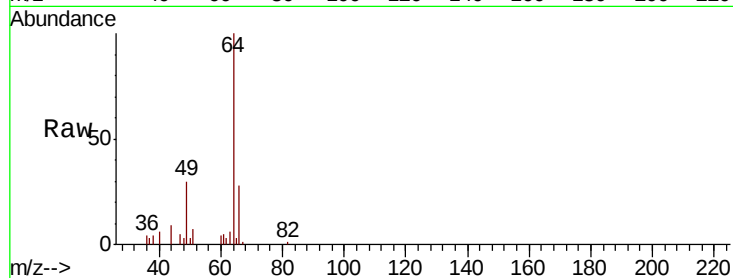
VSTDIC001

Tgt Ion: 64 Resp: 26372

Ion Ratio Lower Upper

64 100

66 28.3 26.6 40.0



#8

Dichlorotetrafluoroethane

Concen: 0.904 ppbv

RT: 3.22 min Scan# 87

Delta R.T. 0.00 min

Lab File: VL033702.D

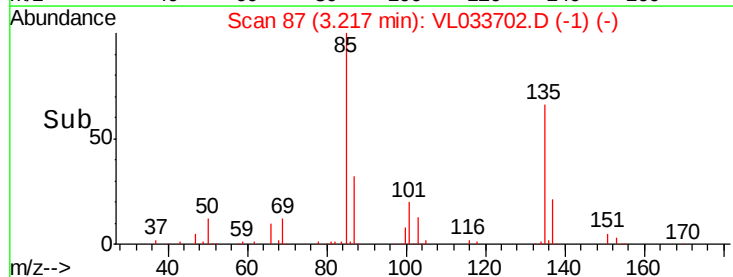
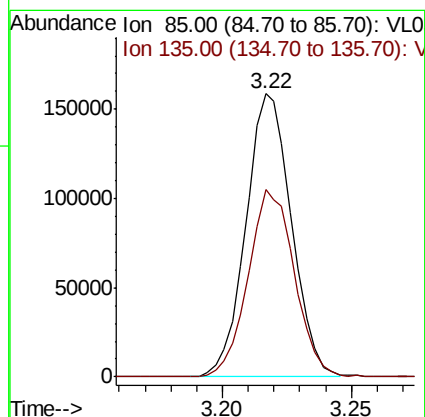
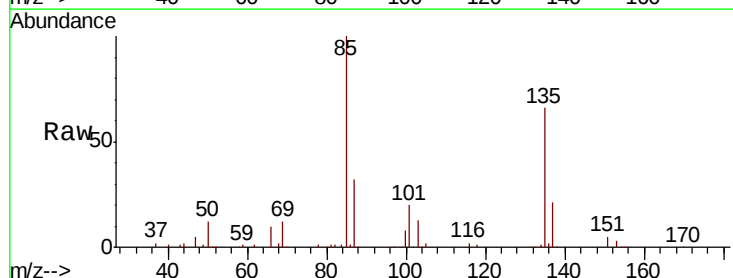
Acq: 17 May 2019 3:18

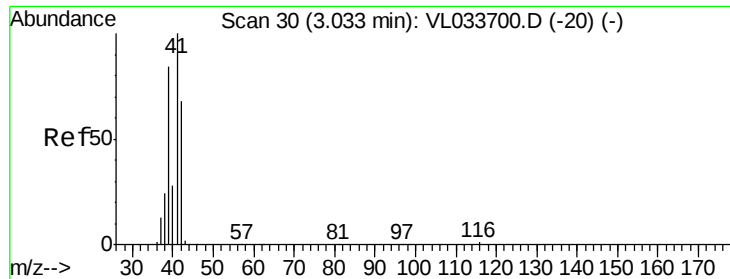
Tgt Ion: 85 Resp: 195736

Ion Ratio Lower Upper

85 100

135 67.5 54.5 81.7





#9

Propene

Concen: 0.875 ppbv

RT: 3.03 min Scan# 30

Delta R.T. 0.00 min

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Acq: 17 May 2019 3:18

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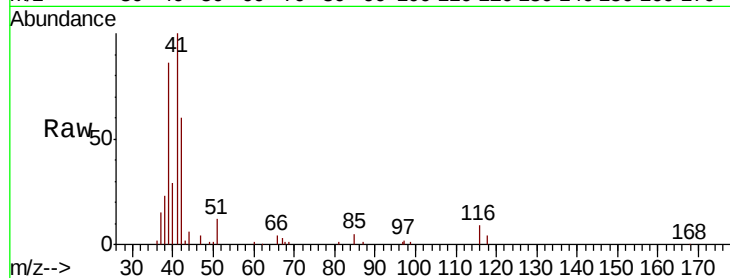
VSTDIC001

Tgt Ion: 41 Resp: 54338

Ion Ratio Lower Upper

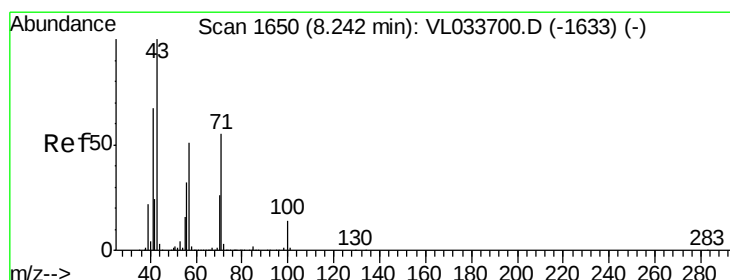
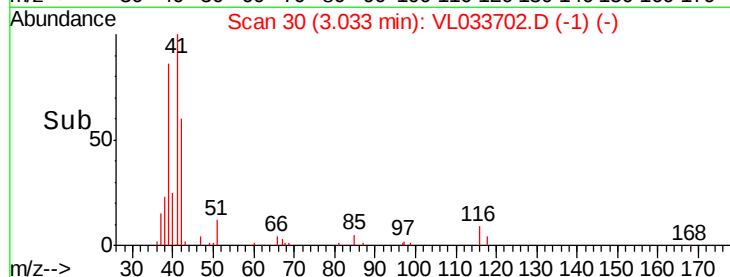
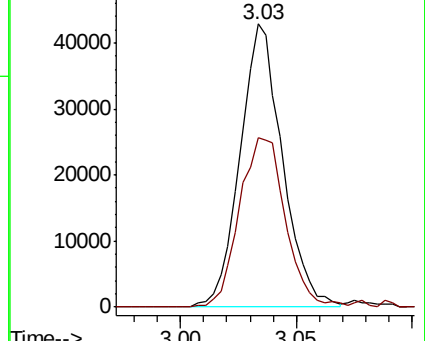
41 100

42 66.3 56.1 84.1



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.971 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VL033702.D

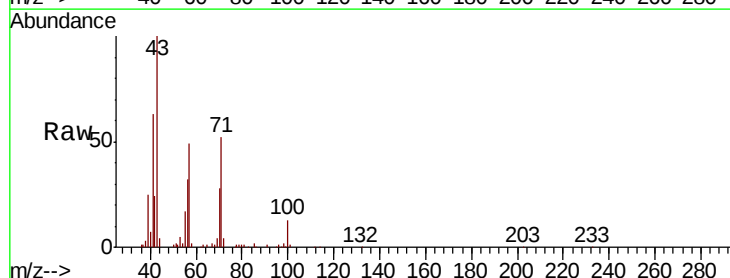
Acq: 17 May 2019 3:18

Tgt Ion: 43 Resp: 149533

Ion Ratio Lower Upper

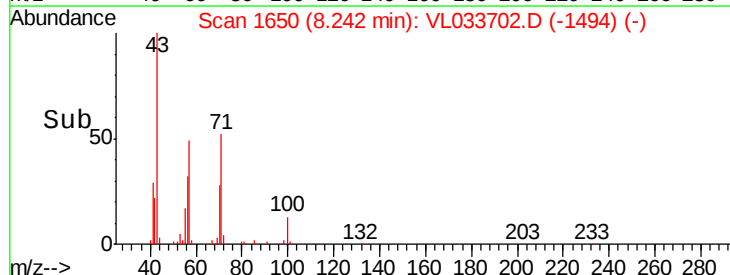
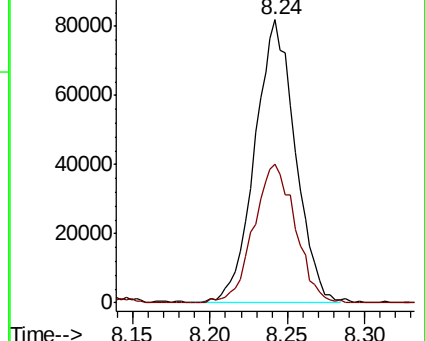
43 100

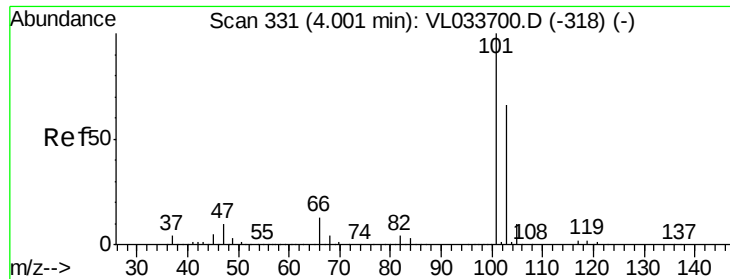
57 50.6 41.4 62.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

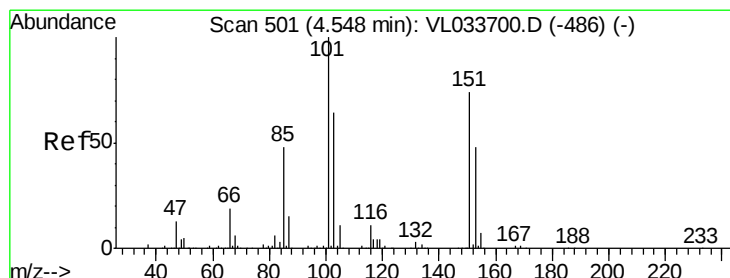
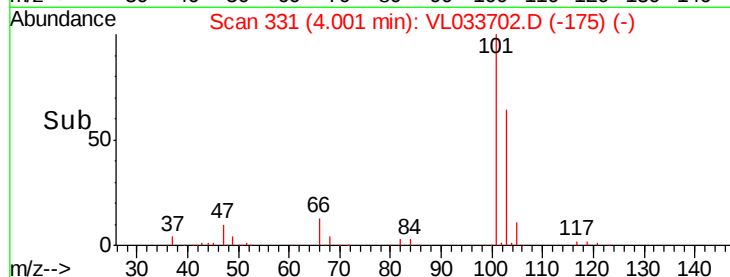
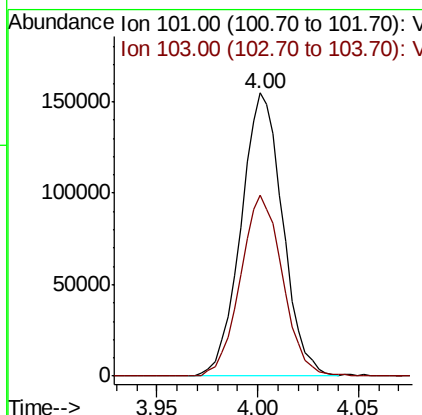
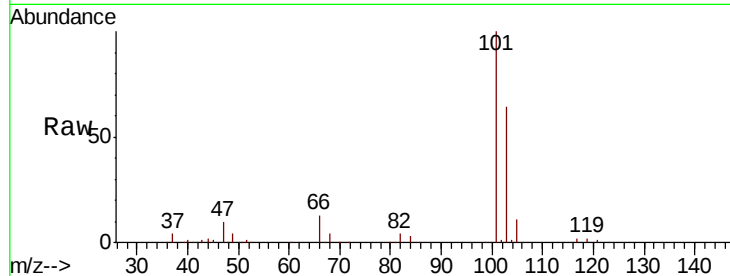




#11
 Trichlorofluoromethane
 Concen: 0.900 ppbv
 RT: 4.00 min Scan# 331
 Delta R.T. 0.00 min
 Lab File: VL033702.D
 Acq: 17 May 2019 3:18

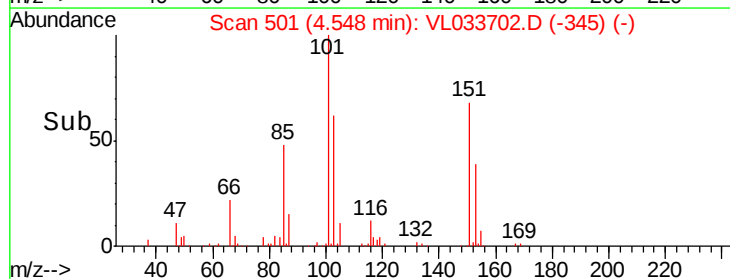
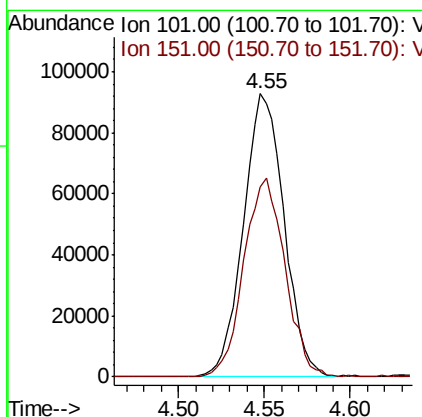
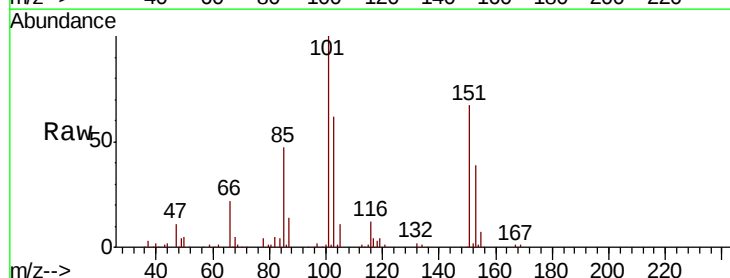
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

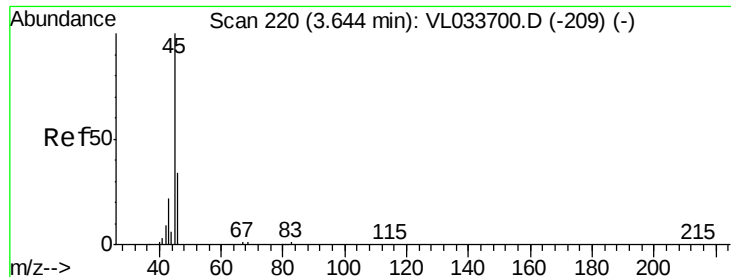
Tgt Ion:101 Resp: 224137
 Ion Ratio Lower Upper
 101 100
 103 64.1 52.6 78.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.908 ppbv
 RT: 4.55 min Scan# 501
 Delta R.T. 0.00 min
 Lab File: VL033702.D
 Acq: 17 May 2019 3:18

Tgt Ion:101 Resp: 152449
 Ion Ratio Lower Upper
 101 100
 151 71.0 58.2 87.4





#13

Ethanol

Concen: 1.105 ppbv

RT: 3.66 min Scan# 224

Delta R.T. 0.01 min

Lab File: VL033702.D

Acq: 17 May 2019 3:18

Instrument :

MSVOA_L

ClientSampleId :

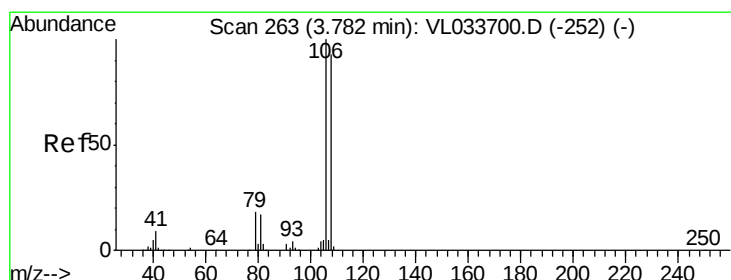
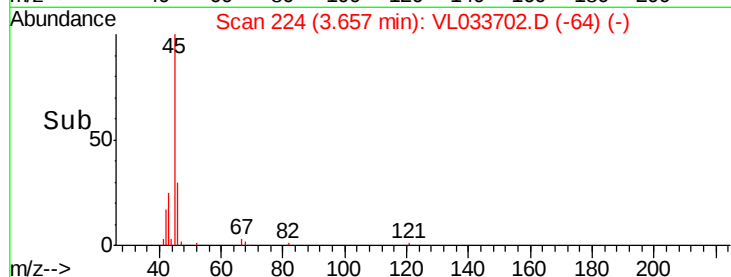
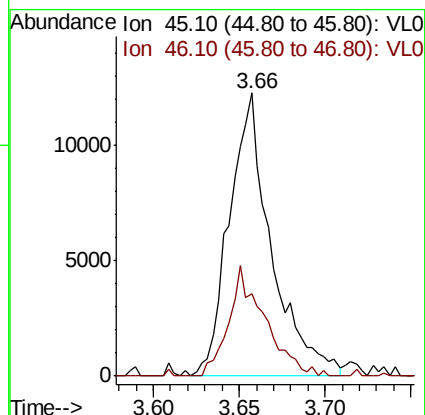
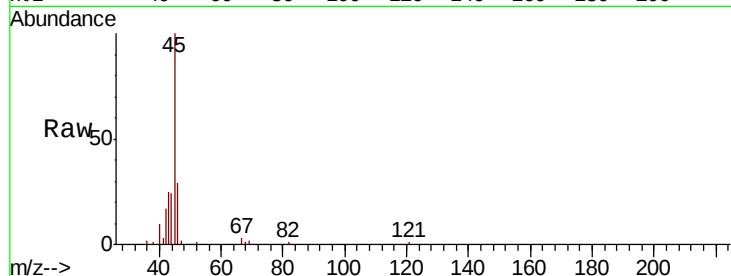
VSTDIC001

Tgt Ion: 45 Resp: 20913

Ion Ratio Lower Upper

45 100

46 33.6 14.8 59.0



#14

Bromoethene

Concen: 0.881 ppbv

RT: 3.79 min Scan# 264

Delta R.T. 0.00 min

Lab File: VL033702.D

Acq: 17 May 2019 3:18

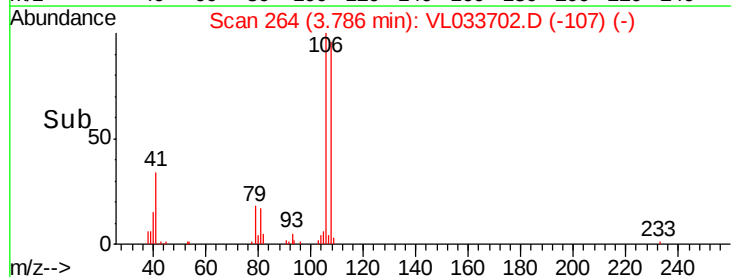
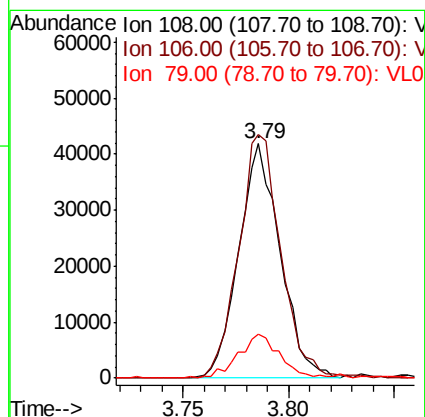
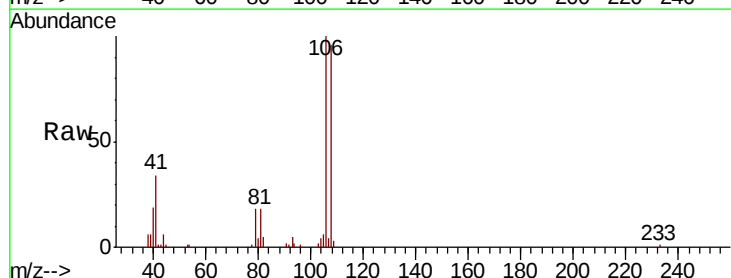
Tgt Ion: 108 Resp: 57066

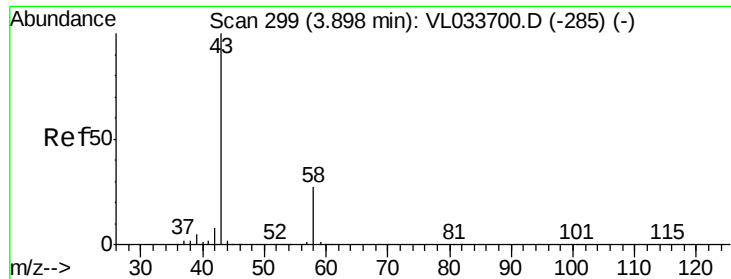
Ion Ratio Lower Upper

108 100

106 106.5 86.5 129.7

79 19.4 15.1 22.7





#15

Acetone

Concen: 0.957 ppbv

RT: 3.90 min Scan# 301

Delta R.T. 0.01 min

Lab File: VL033702.D

Acq: 17 May 2019 3:18

Instrument :

MSVOA_L

ClientSampleId :

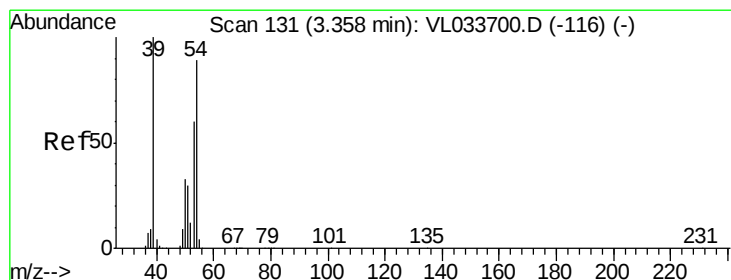
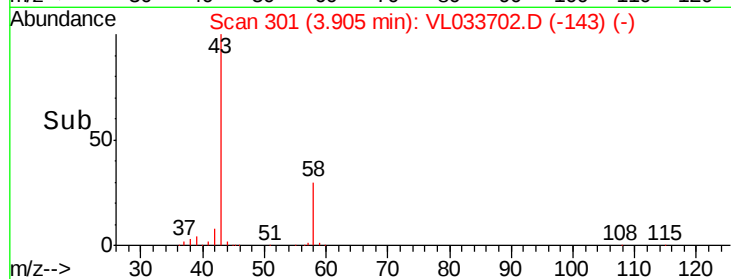
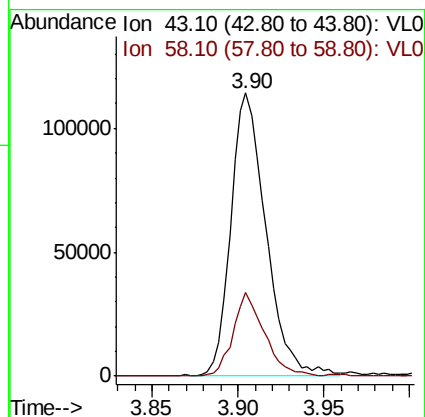
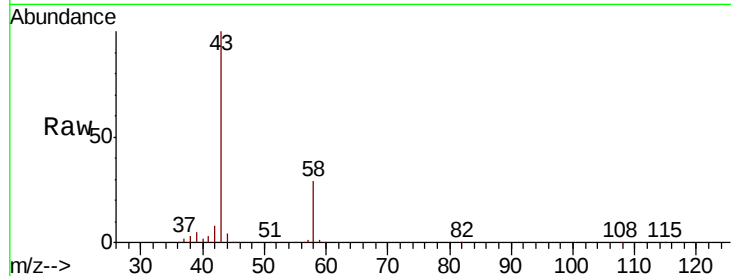
VSTDIC001

Tgt Ion: 43 Resp: 162147

Ion Ratio Lower Upper

43 100

58 27.0 21.3 31.9



#16

1,3-Butadiene

Concen: 0.811 ppbv

RT: 3.36 min Scan# 131

Delta R.T. 0.00 min

Lab File: VL033702.D

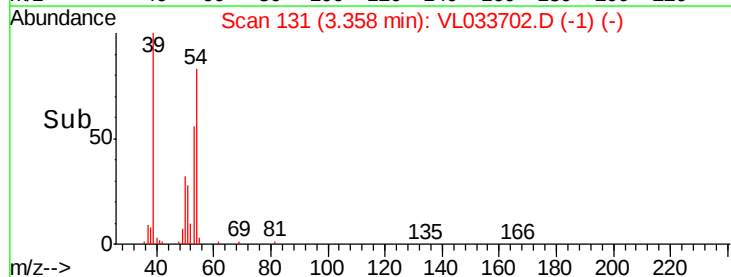
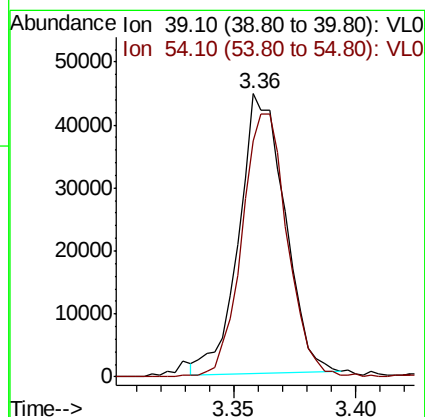
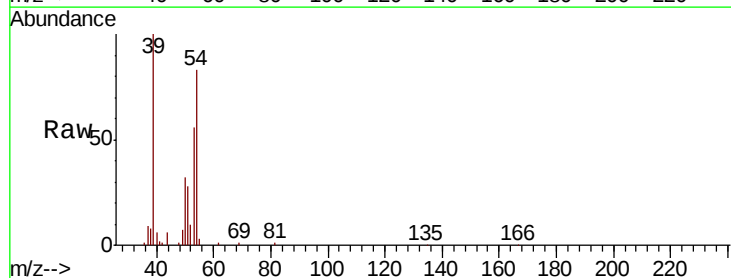
Acq: 17 May 2019 3:18

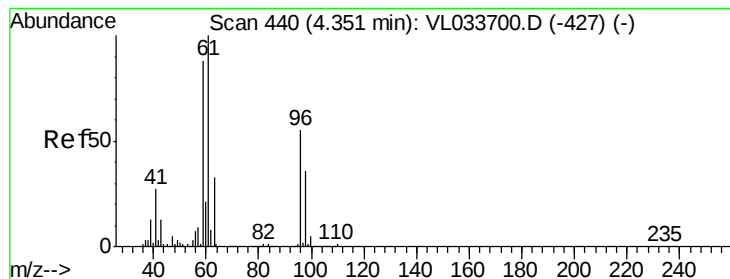
Tgt Ion: 39 Resp: 57657

Ion Ratio Lower Upper

39 100

54 93.6 69.0 103.6





#17

tert-Butyl alcohol

Concen: 0.964 ppbv

RT: 4.36 min Scan# 443

Delta R.T. 0.01 min

Lab File: VL033702.D

Acq: 17 May 2019 3:18

Instrument :

MSVOA_L

ClientSampleId :

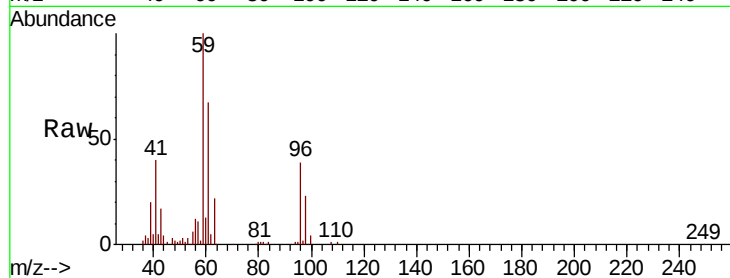
VSTDIC001

Tgt Ion: 59 Resp: 125625

Ion Ratio Lower Upper

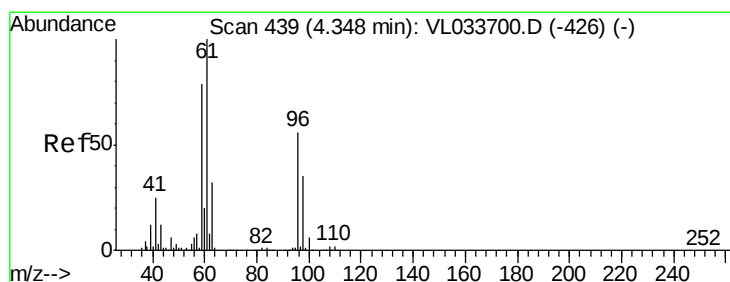
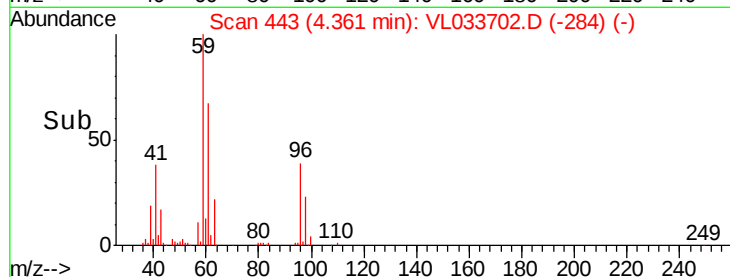
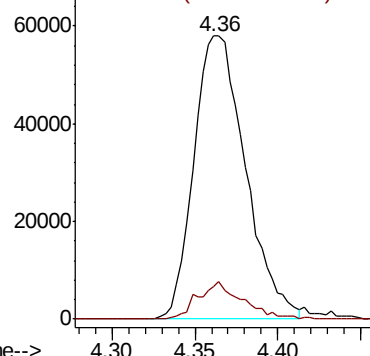
59 100

57 11.5 8.4 12.6



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 0.886 ppbv

RT: 4.35 min Scan# 439

Delta R.T. 0.00 min

Lab File: VL033702.D

Acq: 17 May 2019 3:18

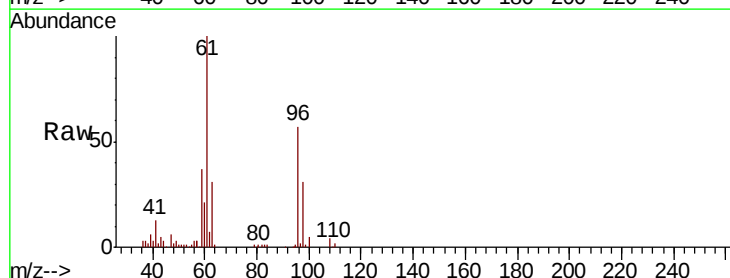
Tgt Ion: 96 Resp: 64096

Ion Ratio Lower Upper

96 100

61 186.6 143.1 214.7

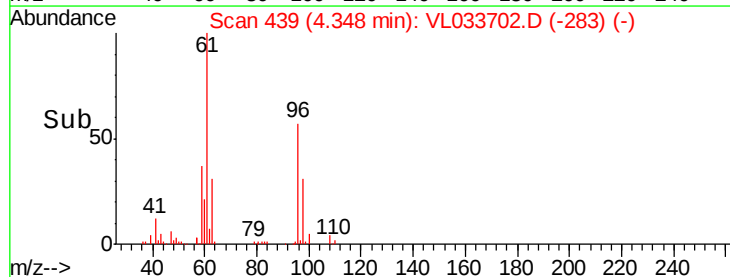
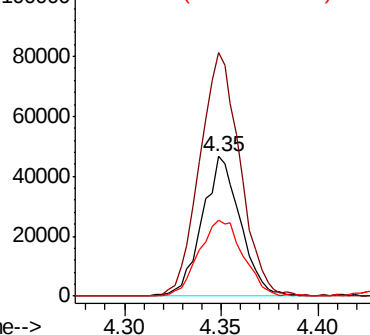
98 53.8 49.5 74.3

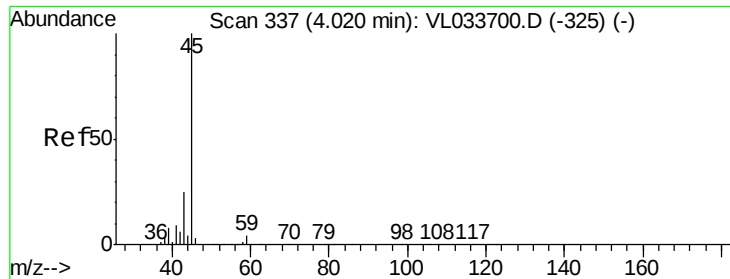


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 0.953 ppbv

RT: 4.03 min Scan# 341

Delta R.T. 0.01 min

Lab File: VL033702.D

Acq: 17 May 2019 3:18

Instrument :

MSVOA_L

ClientSampleId :

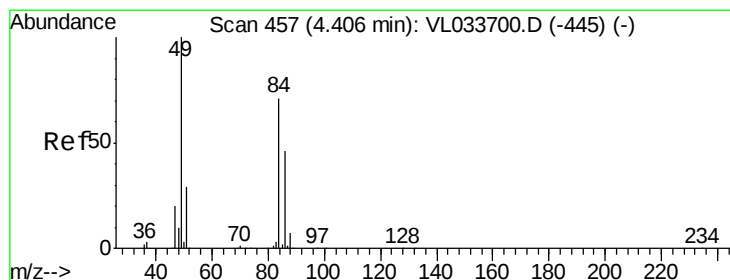
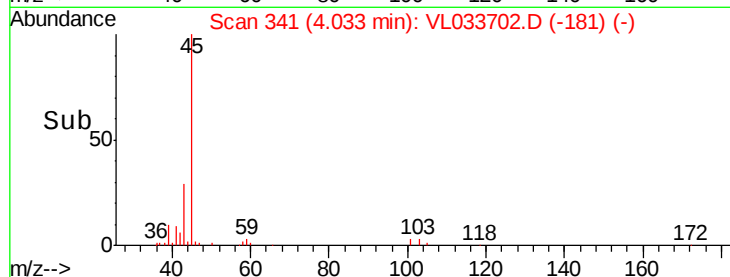
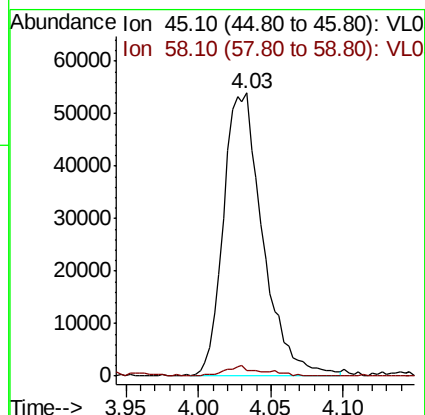
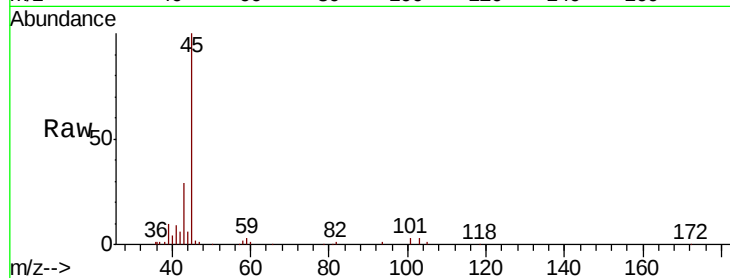
VSTDIC001

Tgt Ion: 45 Resp: 100821

Ion Ratio Lower Upper

45 100

58 3.6 1.6 2.4#



#20

Methylene Chloride

Concen: 0.940 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.00 min

Lab File: VL033702.D

Acq: 17 May 2019 3:18

Tgt Ion: 84 Resp: 60225

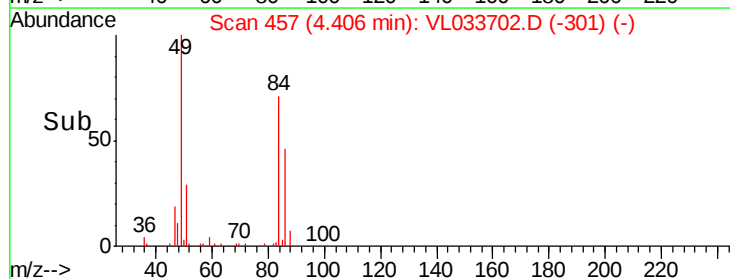
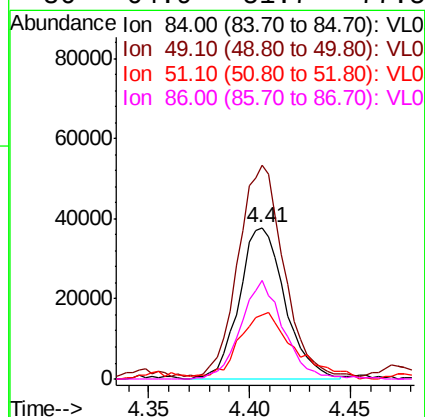
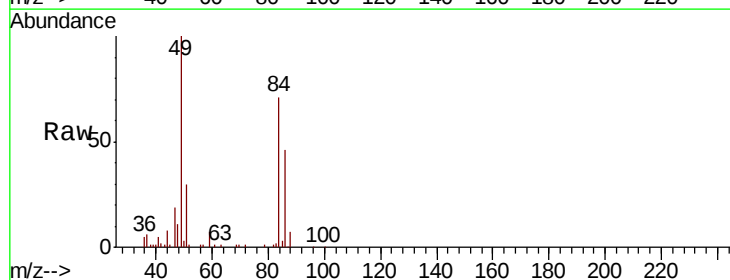
Ion Ratio Lower Upper

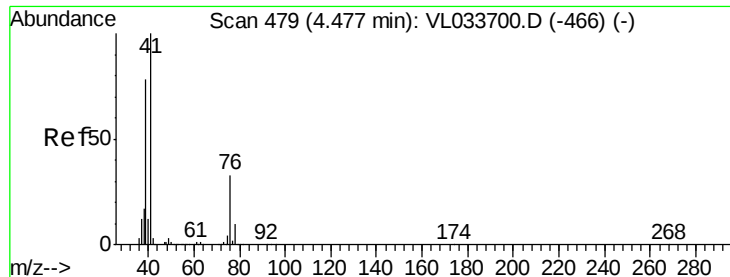
84 100

49 137.4 112.8 169.2

51 40.7 33.4 50.0

86 64.9 51.7 77.5





#21

Allyl Chloride

Concen: 0.851 ppbv

RT: 4.47 min Scan# 478

Delta R.T. -0.00 min

Lab File: VL033702.D

Acq: 17 May 2019 3:18

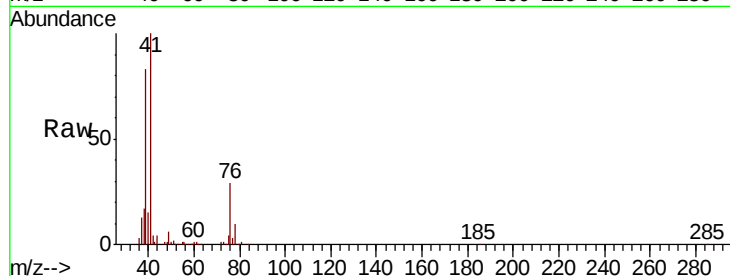
Instrument :

MSVOA_L

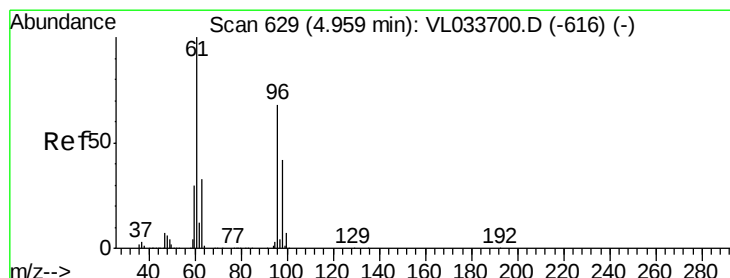
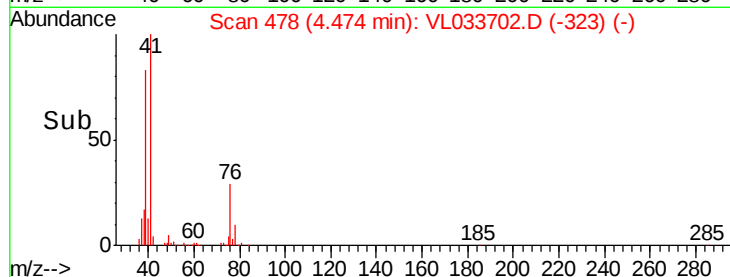
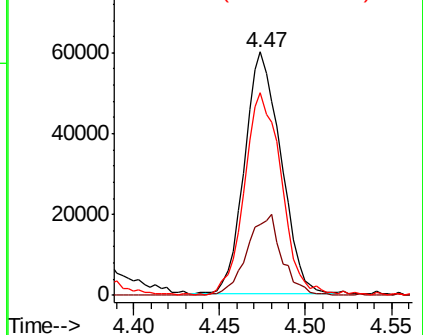
ClientSampleId :

VSTDIC001

Tgt Ion:	41	Resp:	87590
Ion	Ratio	Lower	Upper
41	100		
76	32.3	25.9	38.9
39	84.5	64.6	97.0



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 0.923 ppbv

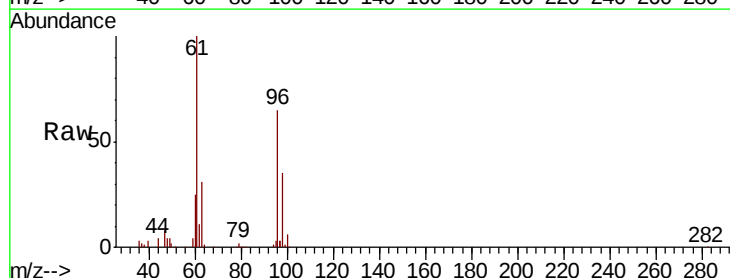
RT: 4.96 min Scan# 628

Delta R.T. -0.00 min

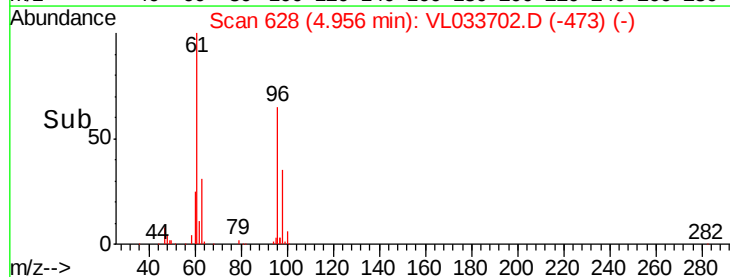
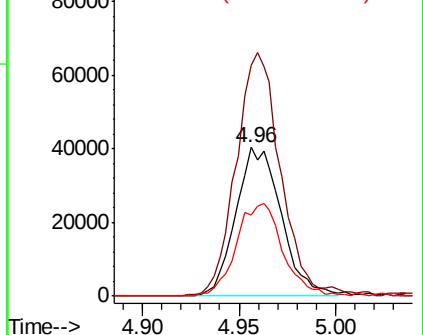
Lab File: VL033702.D

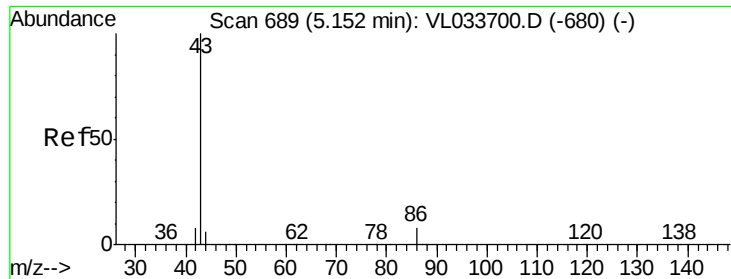
Acq: 17 May 2019 3:18

Tgt Ion:	96	Resp:	66212
Ion	Ratio	Lower	Upper
96	100		
61	153.8	116.8	175.2
98	54.4	49.4	74.0



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

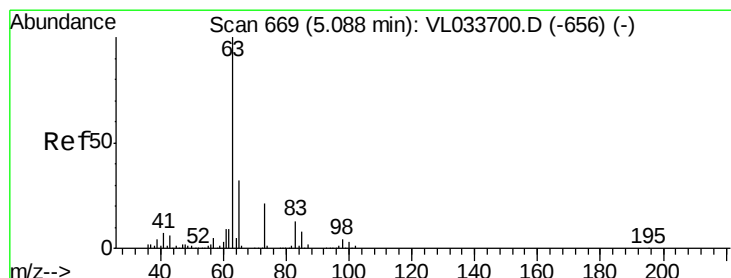
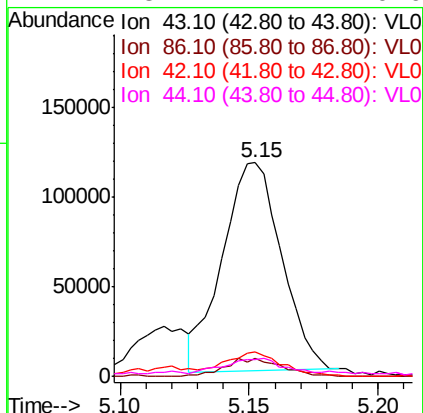
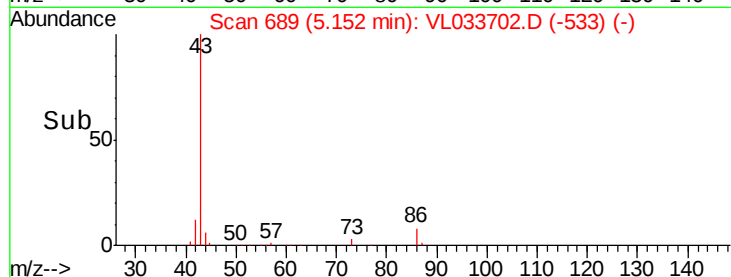
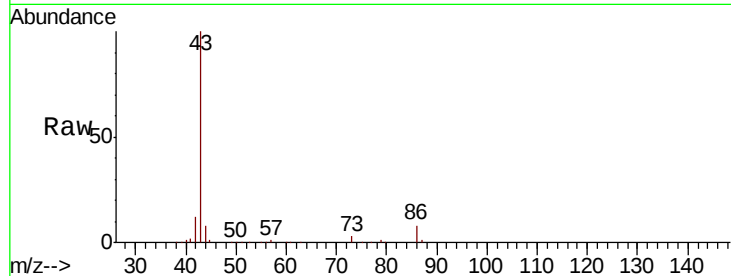




#23
 Vinyl Acetate
 Concen: 0.853 ppbv
 RT: 5.15 min Scan# 689
 Delta R.T. 0.00 min
 Lab File: VL033702.D
 Acq: 17 May 2019 3:18

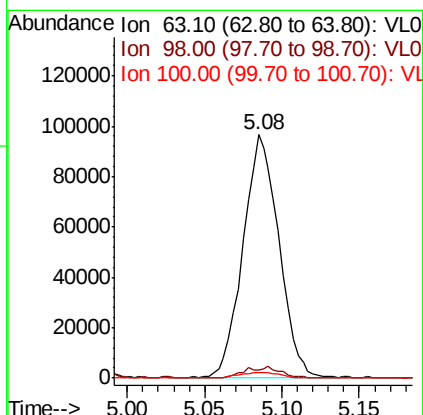
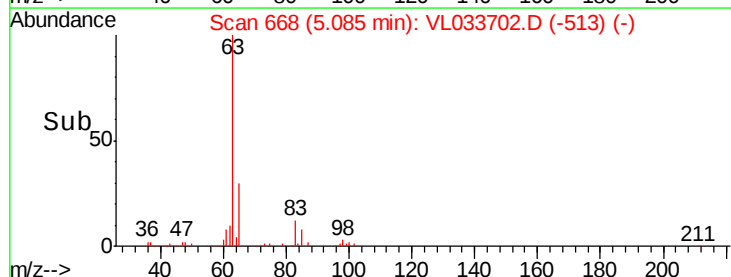
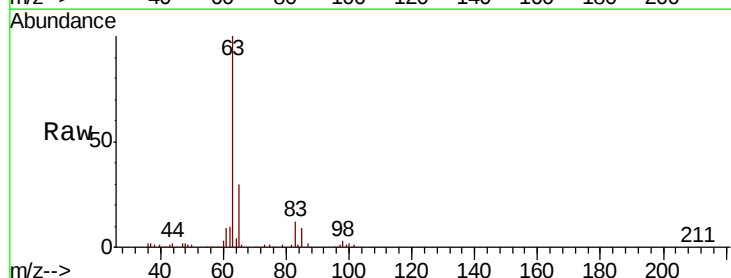
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

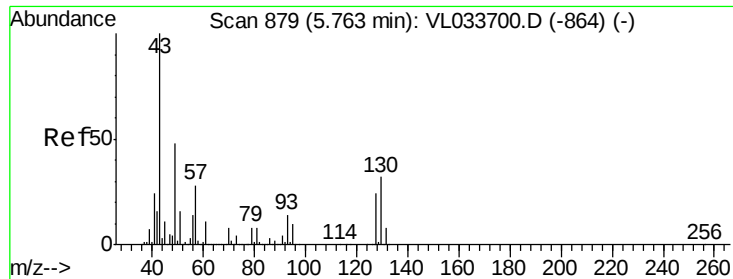
Tgt Ion:	43	Resp:	186255
Ion	Ratio	Lower	Upper
43	100		
86	8.7	6.0	9.0
42	11.7	7.5	11.3#
44	8.1	4.4	6.6#



#24
 1,1-Dichloroethane
 Concen: 0.947 ppbv
 RT: 5.08 min Scan# 668
 Delta R.T. -0.00 min
 Lab File: VL033702.D
 Acq: 17 May 2019 3:18

Tgt Ion:	63	Resp:	156234
Ion	Ratio	Lower	Upper
63	100		
98	3.4	1.8	5.5
100	2.3	1.4	4.2

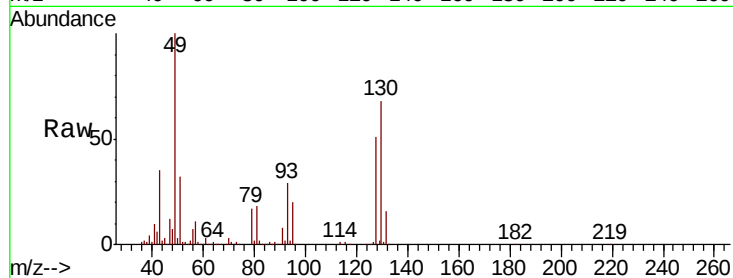




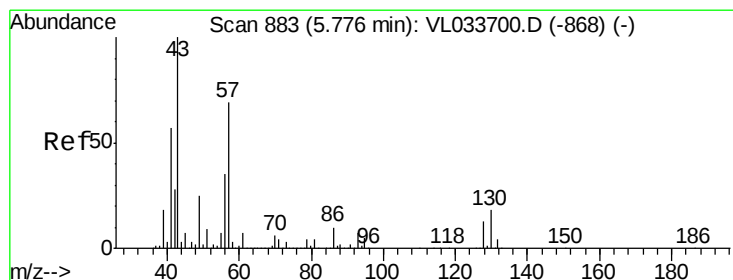
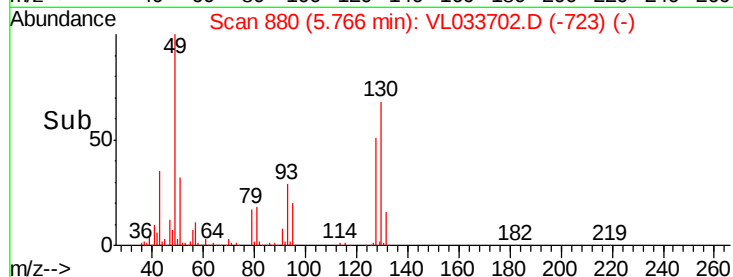
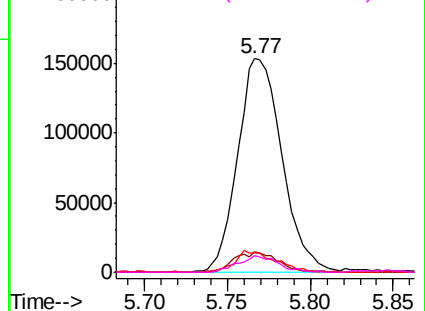
#25
Ethyl Acetate
Concen: 1.033 ppbv
RT: 5.77 min Scan# 880
Delta R.T. 0.00 min
Lab File: VL033702.D
Acq: 17 May 2019 3:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:	43	Resp:	285075
Ion	Ratio	Lower	Upper
43	100		
45	9.6	7.9	11.9
61	9.6	7.7	11.5
70	6.9	5.8	8.6

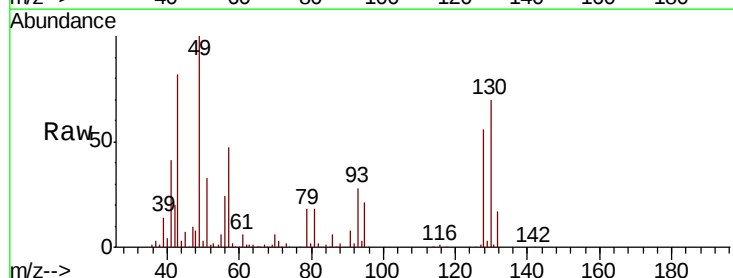


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

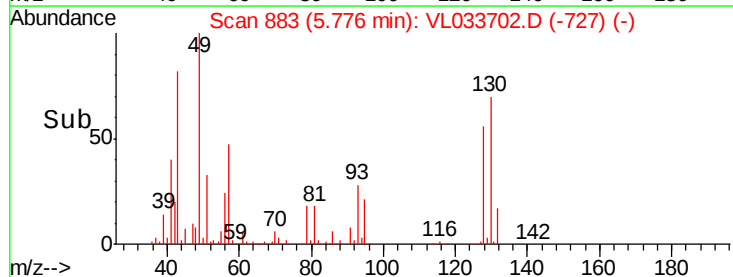
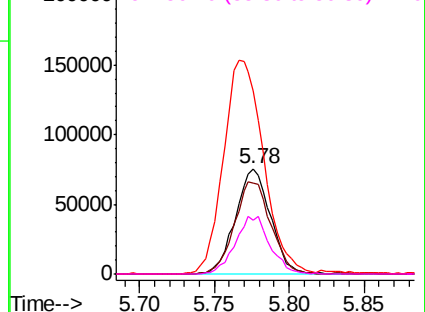


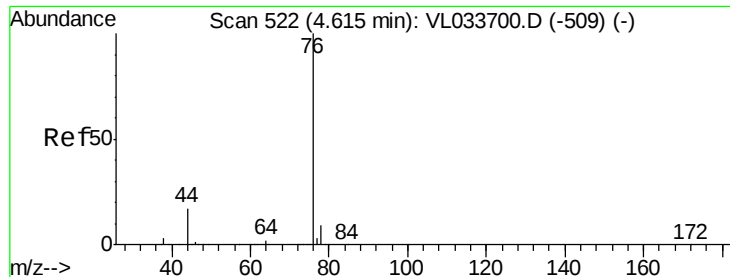
#26
Hexane
Concen: 1.037 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.00 min
Lab File: VL033702.D
Acq: 17 May 2019 3:18

Tgt Ion:	57	Resp:	123032
Ion	Ratio	Lower	Upper
57	100		
41	92.2	69.8	104.6
43	233.4	181.8	272.6
56	54.2	42.1	63.1



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

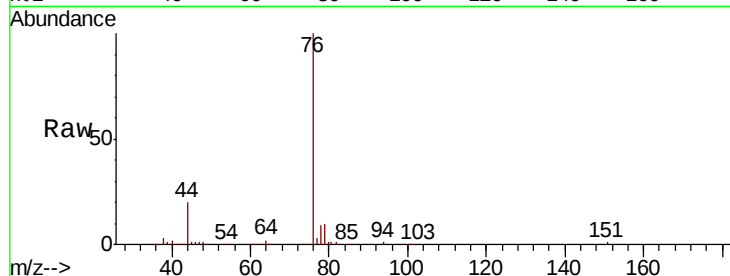




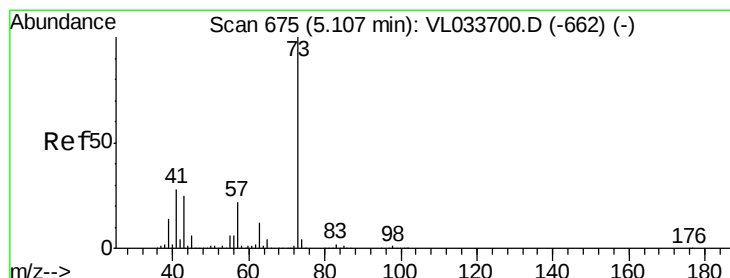
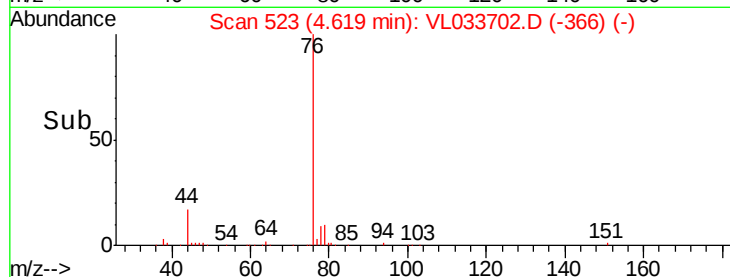
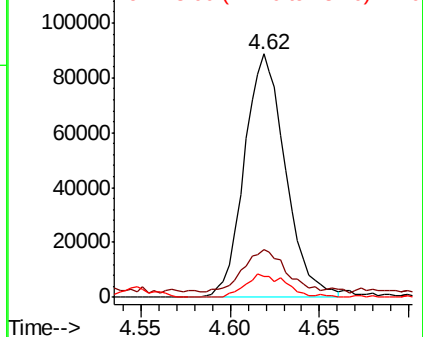
#27
Carbon Disulfide
Concen: 0.880 ppbv
RT: 4.62 min Scan# 523
Delta R.T. 0.00 min
Lab File: VL033702.D
Acq: 17 May 2019 3:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion	Ratio	Lower	Upper
76	100		
44	18.9	13.8	20.8
78	10.1	7.4	11.0

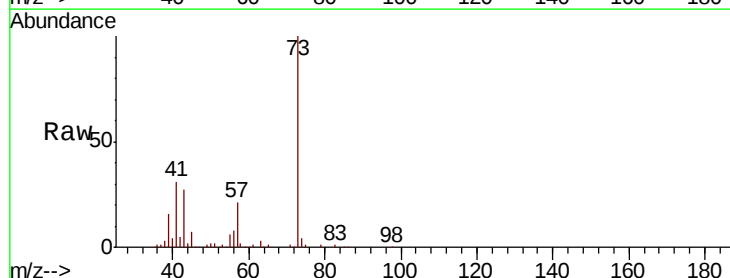


Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0

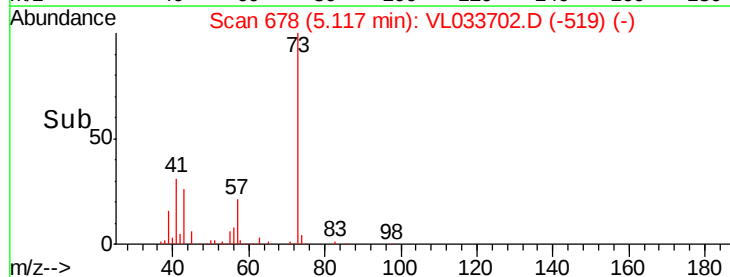
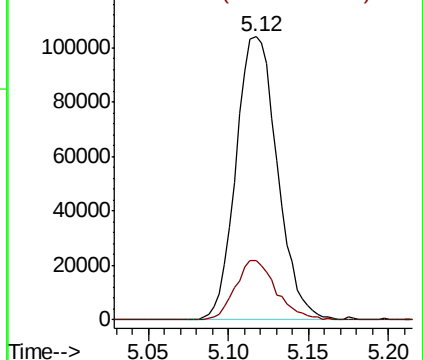


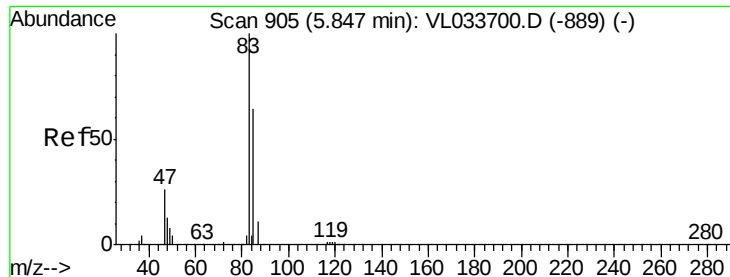
#28
Methyl tert-Butyl Ether
Concen: 0.923 ppbv
RT: 5.12 min Scan# 678
Delta R.T. 0.01 min
Lab File: VL033702.D
Acq: 17 May 2019 3:18

Tgt Ion	Ratio	Lower	Upper
73	100		
57	20.9	17.4	26.2



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





#29

Chloroform

Concen: 1.016 ppbv

RT: 5.84 min Scan# 904

Delta R.T. -0.00 min

Lab File: VL033702.D

Acq: 17 May 2019 3:18

Instrument :

MSVOA_L

ClientSampleId :

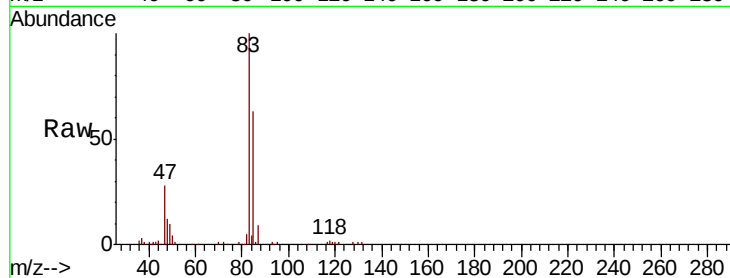
VSTDIC001

Tgt Ion: 83 Resp: 216213

Ion Ratio Lower Upper

83 100

85 62.9 51.5 77.3



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

150000

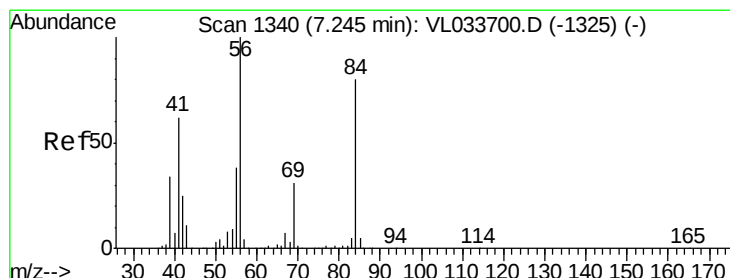
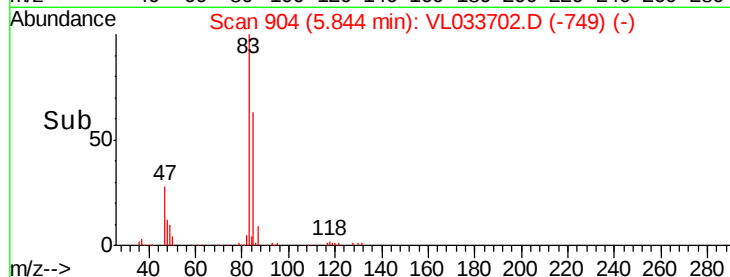
100000

50000

0

5.80 5.84 5.90

Time-->



#30

Cyclohexane

Concen: 0.921 ppbv

RT: 7.24 min Scan# 1339

Delta R.T. -0.00 min

Lab File: VL033702.D

Acq: 17 May 2019 3:18

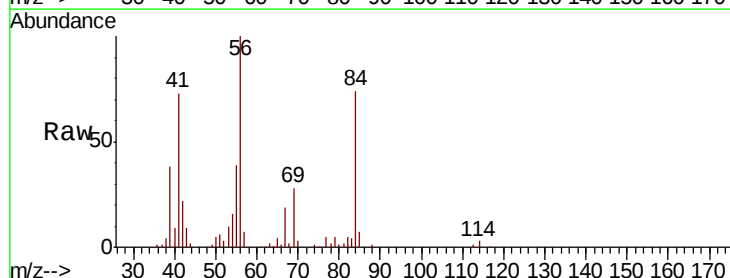
Tgt Ion: 84 Resp: 91200

Ion Ratio Lower Upper

84 100

56 136.4 107.7 161.5

41 89.3 66.0 99.0



Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

80000

60000

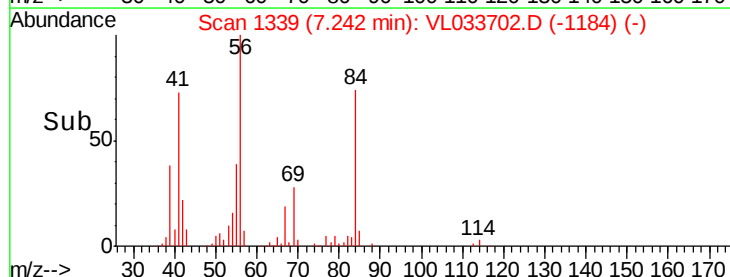
40000

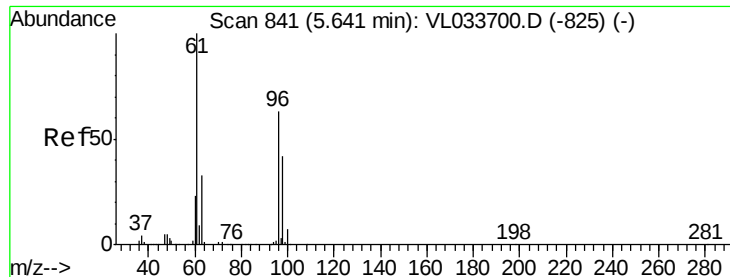
20000

0

7.20 7.24 7.30

Time-->



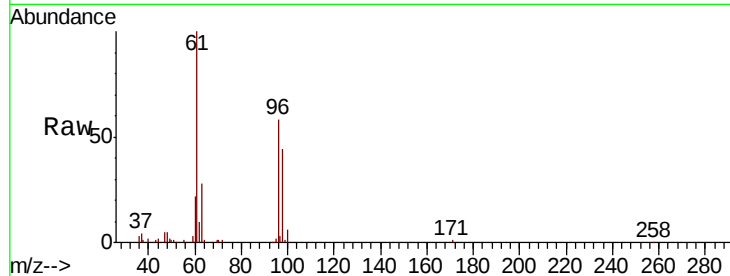


#31

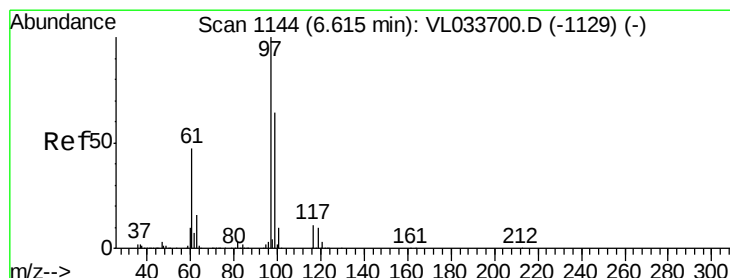
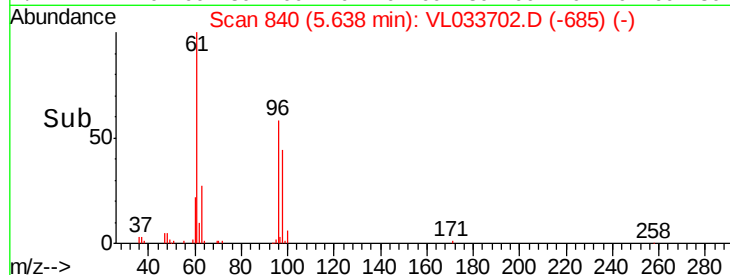
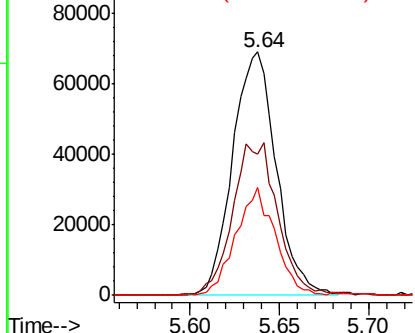
cis-1,2-Dichloroethene
 Concen: 1.009 ppbv
 RT: 5.64 min Scan# 840
 Delta R.T. -0.00 min
 Lab File: VL033702.D
 Acq: 17 May 2019 3:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion	Ratio	Lower	Upper
61	100		
96	52.5	50.8	76.2
98	39.8	33.3	49.9



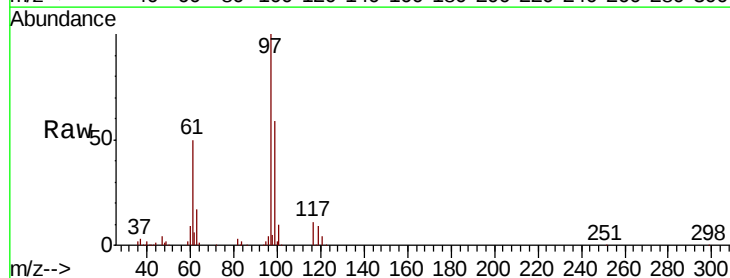
Abundance Ion 61.10 (60.80 to 61.80): VL0
 Ion 96.00 (95.70 to 96.70): VL0
 Ion 98.00 (97.70 to 98.70): VL0



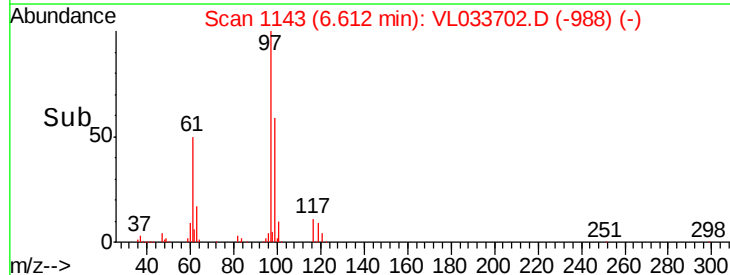
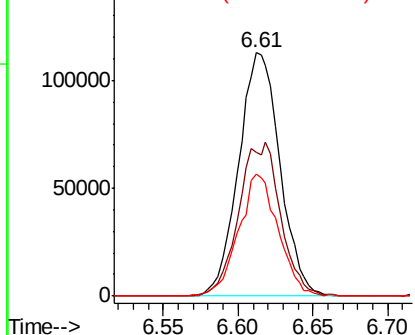
#32

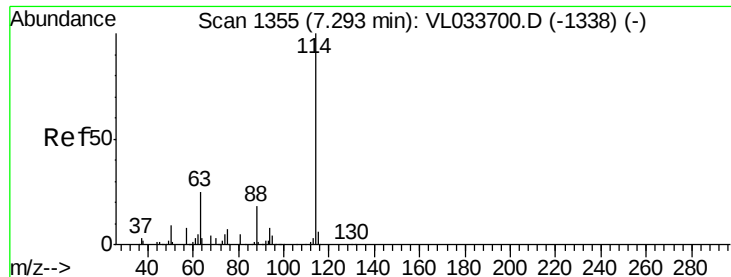
1,1,1-Trichloroethane
 Concen: 0.991 ppbv
 RT: 6.61 min Scan# 1143
 Delta R.T. -0.00 min
 Lab File: VL033702.D
 Acq: 17 May 2019 3:18

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.6	51.5	77.3
61	48.1	37.8	56.8



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

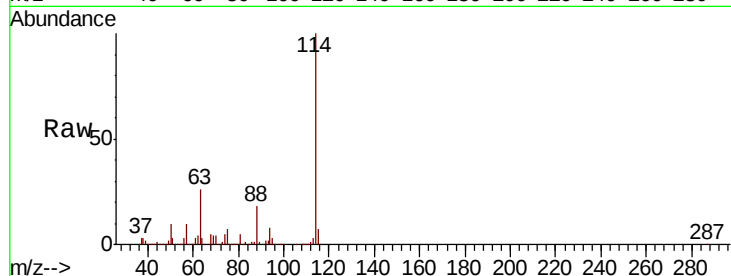




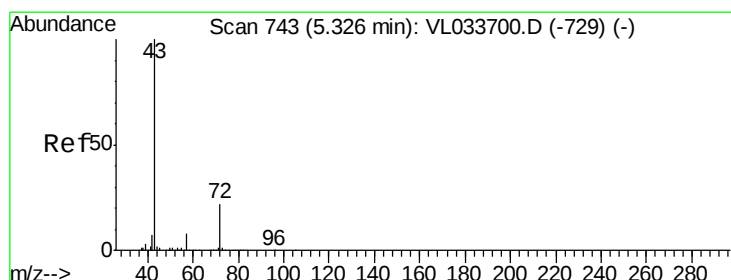
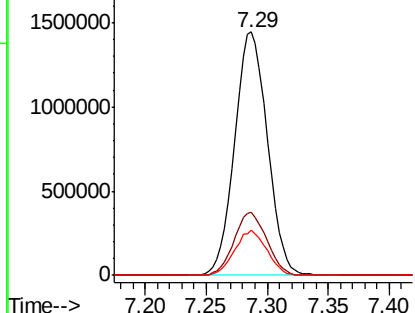
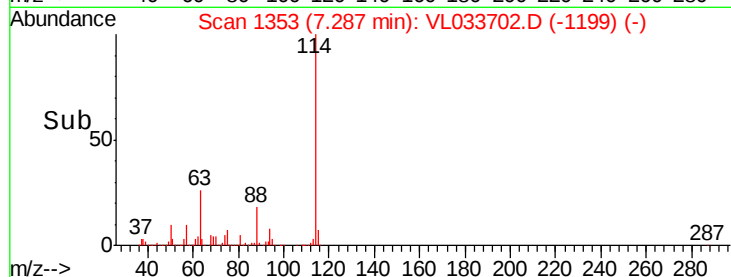
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033702.D
 Acq: 17 May 2019 3:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion: 114 Resp: 2687465
 Ion Ratio Lower Upper
 114 100
 63 26.0 20.9 31.3
 88 18.1 14.3 21.5

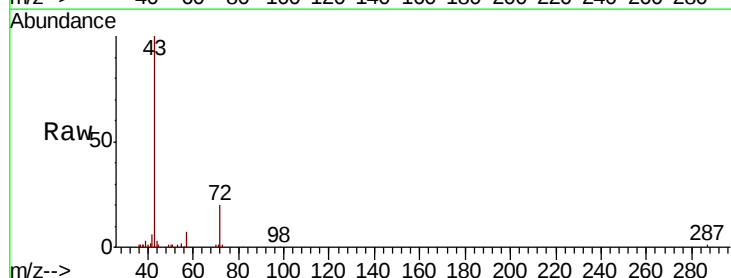


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

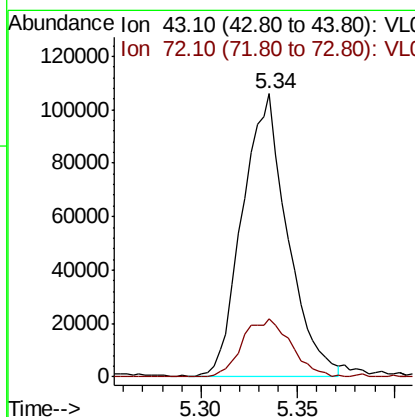
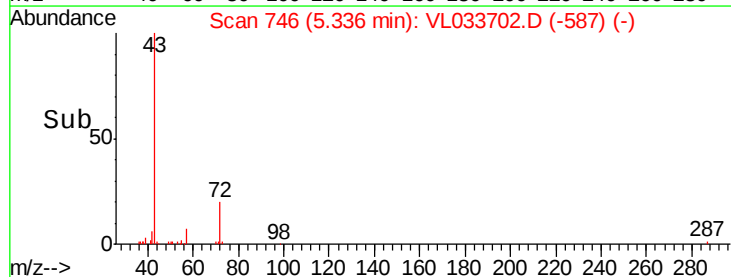


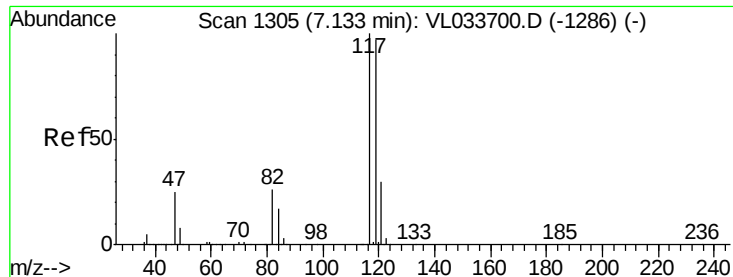
#34
 2-Butanone
 Concen: 1.001 ppbv
 RT: 5.34 min Scan# 746
 Delta R.T. 0.01 min
 Lab File: VL033702.D
 Acq: 17 May 2019 3:18

Tgt Ion: 43 Resp: 172676
 Ion Ratio Lower Upper
 43 100
 72 22.1 17.8 26.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 1.006 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. -0.00 min

Lab File: VL033702.D

Acq: 17 May 2019 3:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

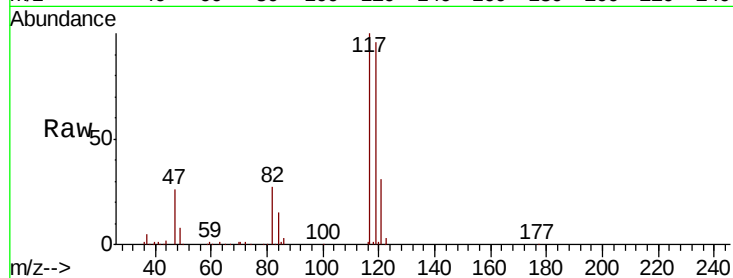
Tgt Ion: 117 Resp: 222572

Ion Ratio Lower Upper

117 100

119 95.5 77.2 115.8

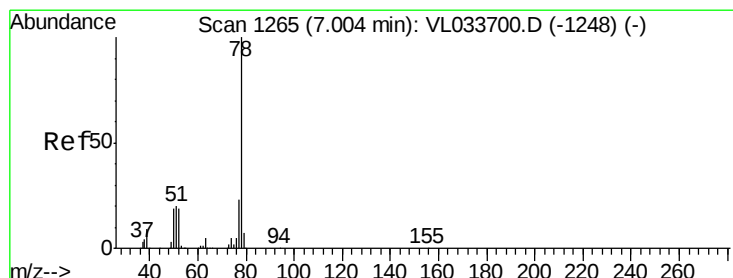
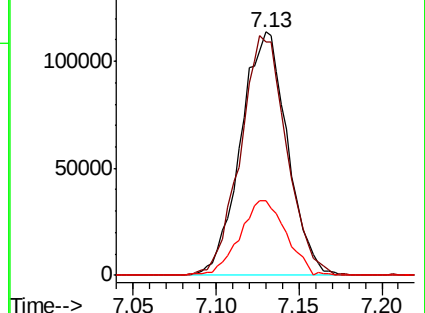
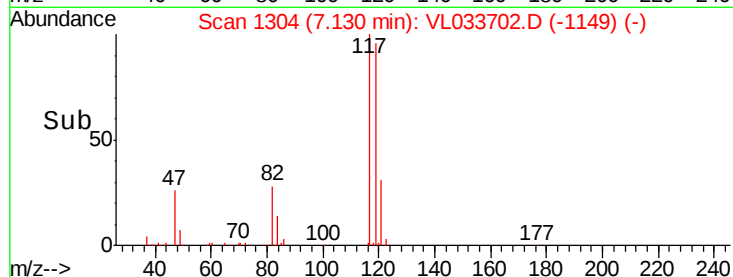
121 30.3 24.1 36.1



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: 0.993 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. 0.00 min

Lab File: VL033702.D

Acq: 17 May 2019 3:18

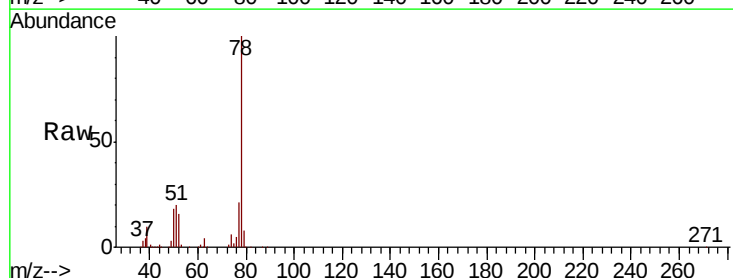
Tgt Ion: 78 Resp: 241028

Ion Ratio Lower Upper

78 100

77 21.4 18.4 27.6

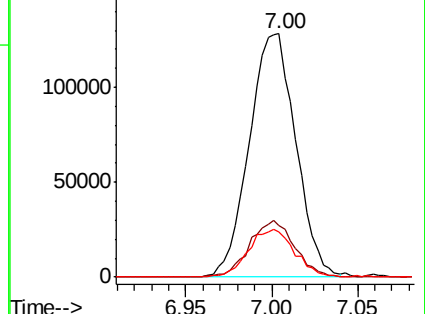
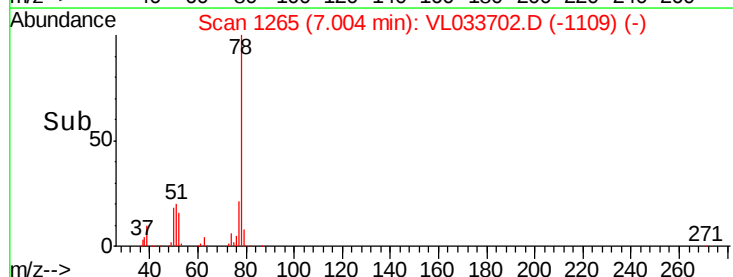
50 18.4 15.5 23.3

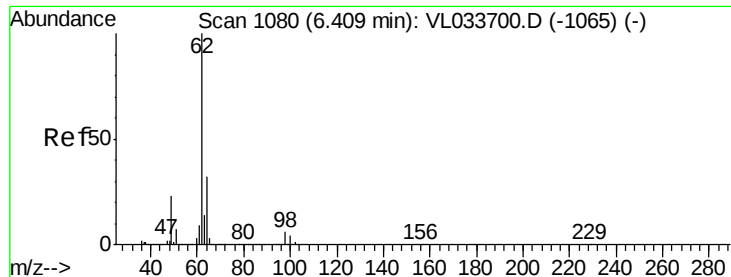


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

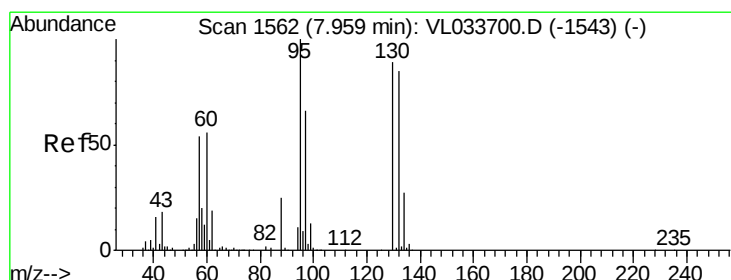
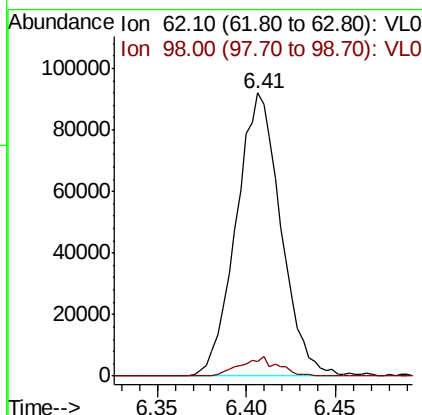
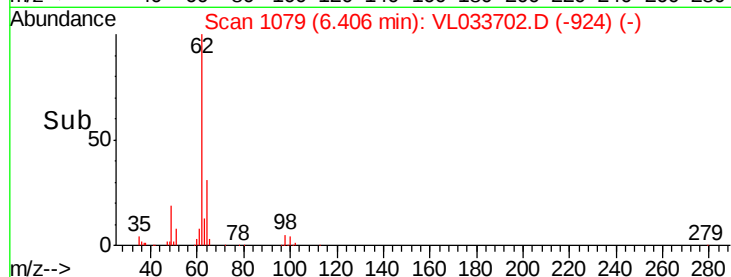
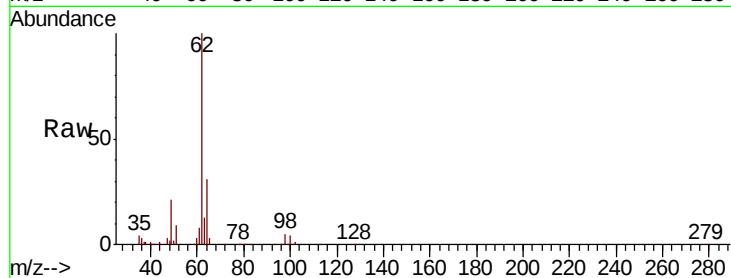




#37
 1,2-Dichloroethane
 Concen: 0.948 ppbv
 RT: 6.41 min Scan# 1079
 Delta R.T. -0.00 min
 Lab File: VL033702.D
 Acq: 17 May 2019 3:18

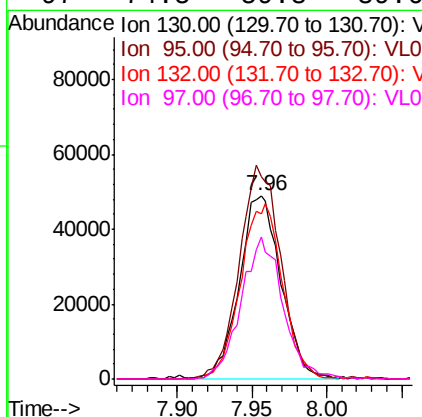
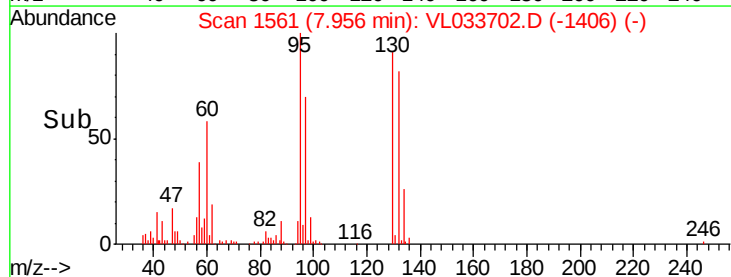
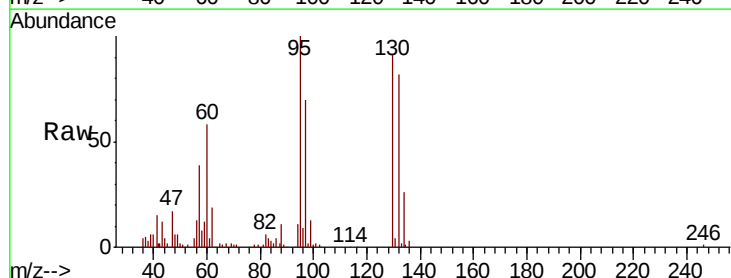
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

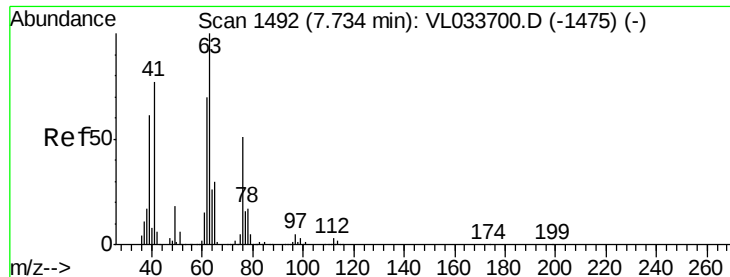
Tgt Ion: 62 Resp: 160478
 Ion Ratio Lower Upper
 62 100
 98 5.7 4.5 6.7



#38
 Trichloroethene
 Concen: 1.069 ppbv
 RT: 7.96 min Scan# 1561
 Delta R.T. -0.00 min
 Lab File: VL033702.D
 Acq: 17 May 2019 3:18

Tgt Ion: 130 Resp: 94715
 Ion Ratio Lower Upper
 130 100
 95 105.1 90.2 135.4
 132 88.4 76.4 114.6
 97 74.5 59.8 89.6





#39

1,2-Dichloropropane

Concen: 1.032 ppbv

RT: 7.73 min Scan# 1490

Delta R.T. -0.01 min

Lab File: VL033702.D

Acq: 17 May 2019 3:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

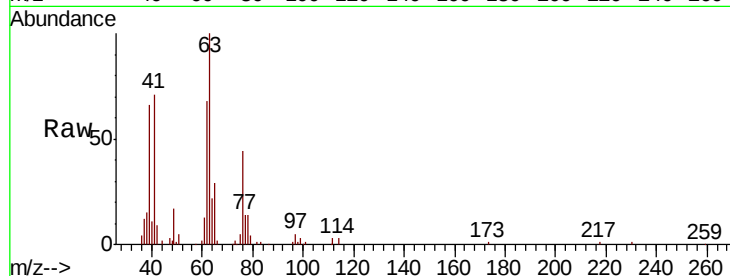
Tgt Ion: 63 Resp: 93407

Ion Ratio Lower Upper

63 100

41 70.5 61.5 92.3

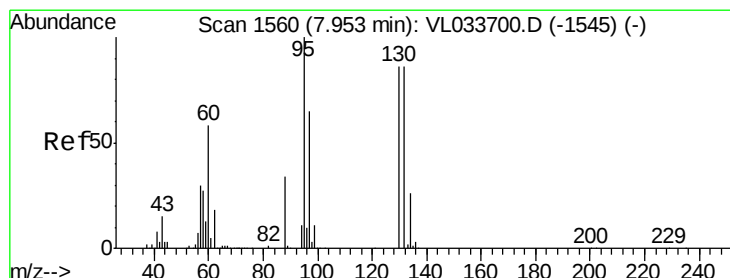
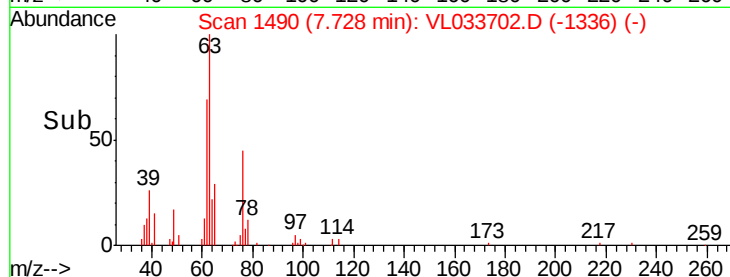
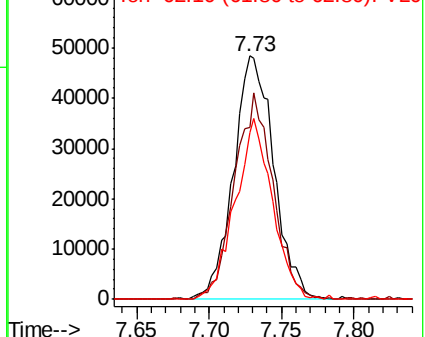
62 68.3 56.2 84.4



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: 0.778 ppbv

RT: 7.97 min Scan# 1566

Delta R.T. 0.02 min

Lab File: VL033702.D

Acq: 17 May 2019 3:18

Tgt Ion: 88 Resp: 28482

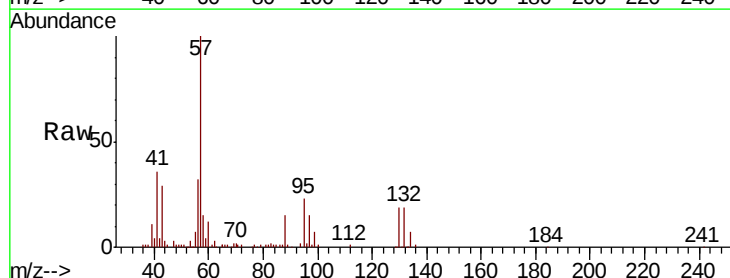
Ion Ratio Lower Upper

88 100

58 172.5 101.8 152.6#

43 0.0 0.0 0.0

57 0.0 0.0 0.0

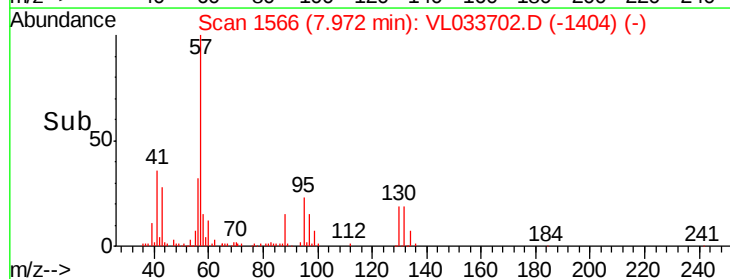
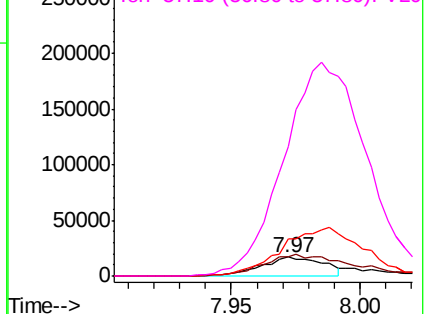


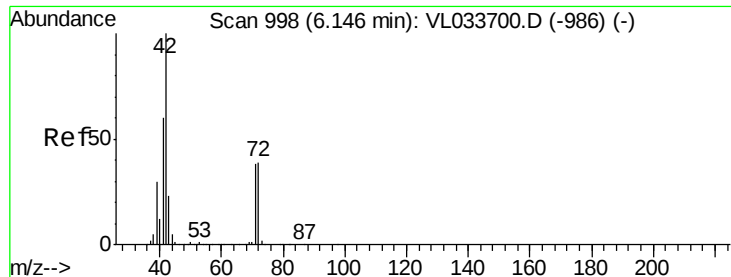
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

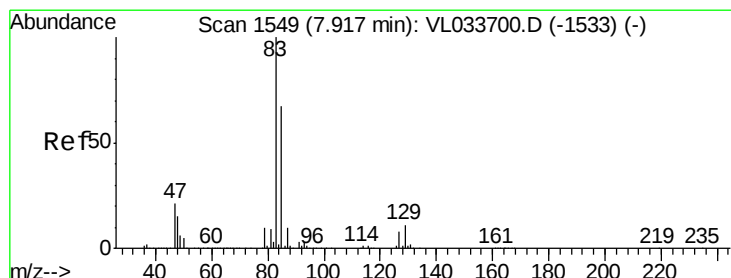
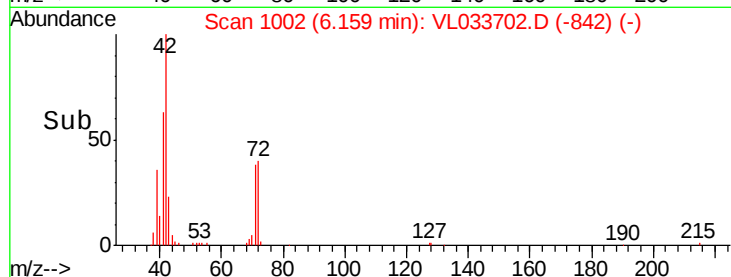
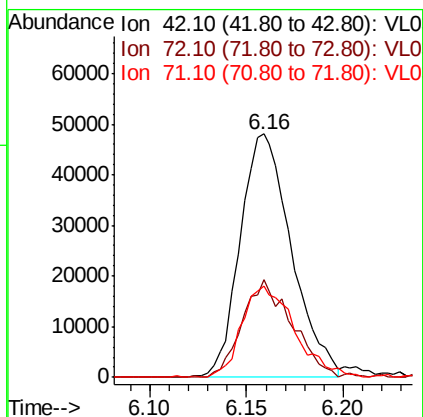
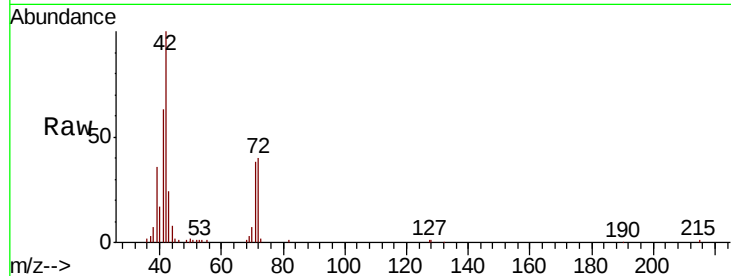




#41
Tetrahydrofuran
Concen: 0.982 ppbv
RT: 6.16 min Scan# 1002
Delta R.T. 0.01 min
Lab File: VL033702.D
Acq: 17 May 2019 3:18

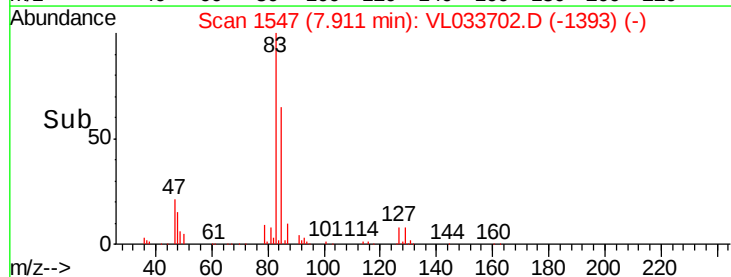
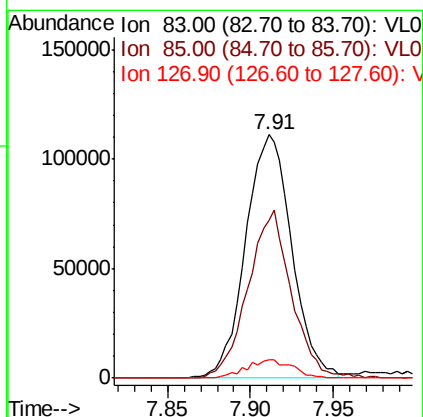
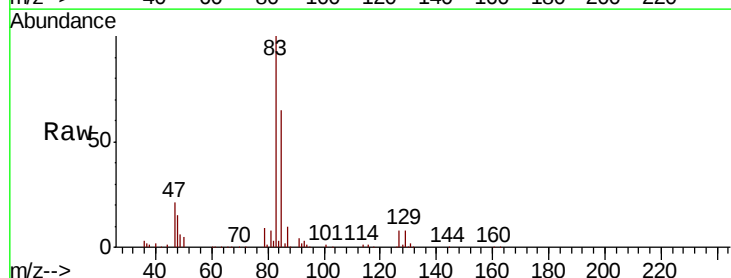
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

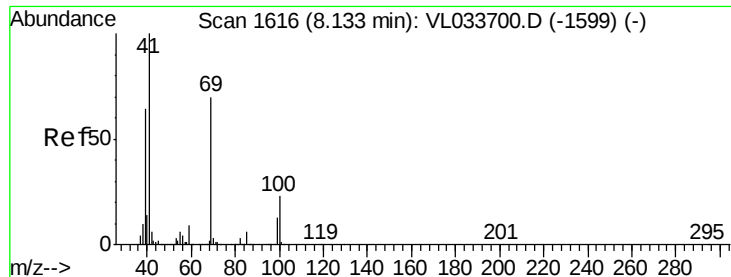
Tgt Ion: 42 Resp: 88596
Ion Ratio Lower Upper
42 100
72 39.5 32.0 48.0
71 38.9 30.4 45.6



#42
Bromodichloromethane
Concen: 0.990 ppbv
RT: 7.91 min Scan# 1547
Delta R.T. -0.01 min
Lab File: VL033702.D
Acq: 17 May 2019 3:18

Tgt Ion: 83 Resp: 215302
Ion Ratio Lower Upper
83 100
85 64.9 53.3 79.9
127 7.7 6.5 9.7

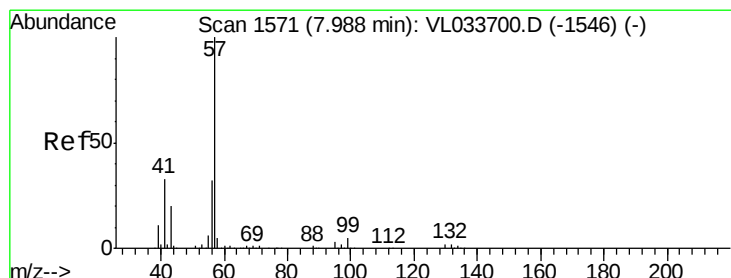
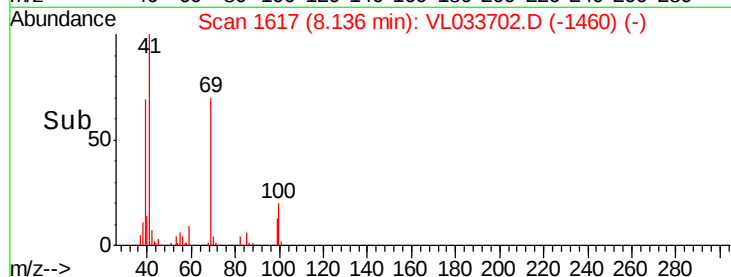
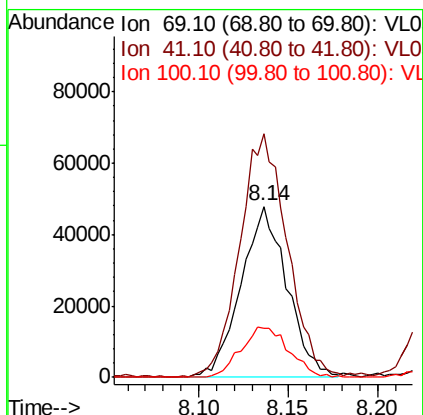
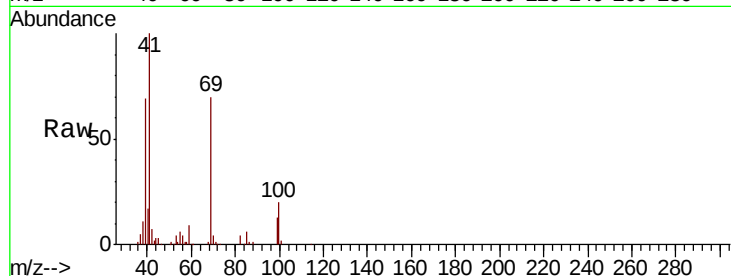




#43
Methyl Methacrylate
Concen: 0.947 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. 0.00 min
Lab File: VL033702.D
Acq: 17 May 2019 3:18

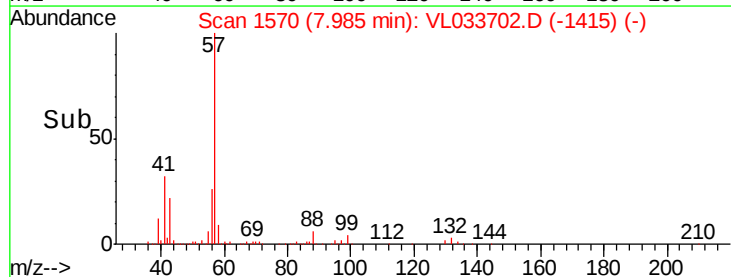
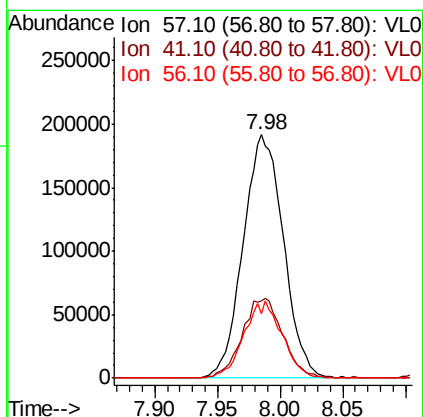
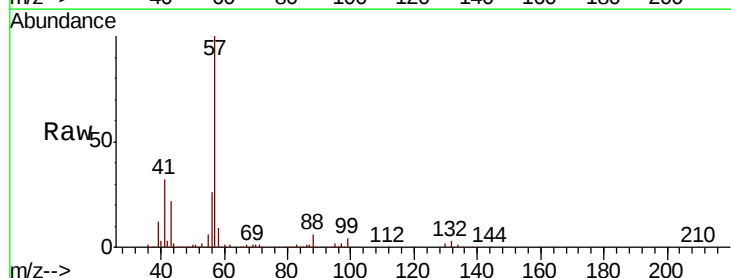
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

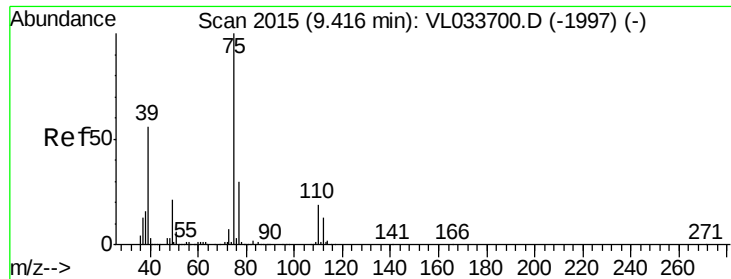
Tgt Ion: 69 Resp: 86268
Ion Ratio Lower Upper
69 100
41 148.2 116.3 174.5
100 30.6 25.3 37.9



#44
2,2,4-Trimethylpentane
Concen: 1.032 ppbv
RT: 7.98 min Scan# 1570
Delta R.T. -0.00 min
Lab File: VL033702.D
Acq: 17 May 2019 3:18

Tgt Ion: 57 Resp: 427811
Ion Ratio Lower Upper
57 100
41 33.1 25.4 38.0
56 29.9 24.7 37.1





#45

t-1,3-Dichloropropene

Concen: 0.866 ppbv

RT: 9.41 min Scan# 2014

Delta R.T. -0.00 min

Lab File: VL033702.D

Acq: 17 May 2019 3:18

Instrument :

MSVOA_L

ClientSampleId :

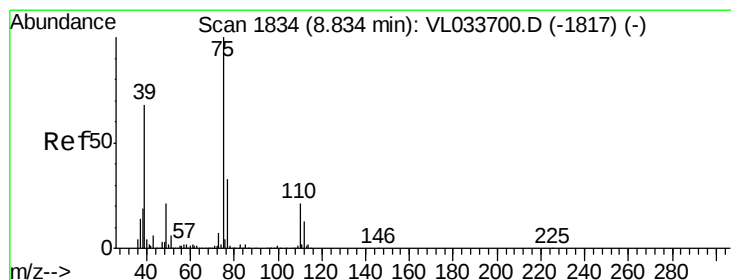
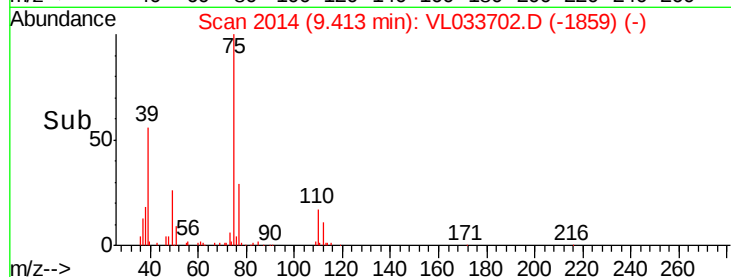
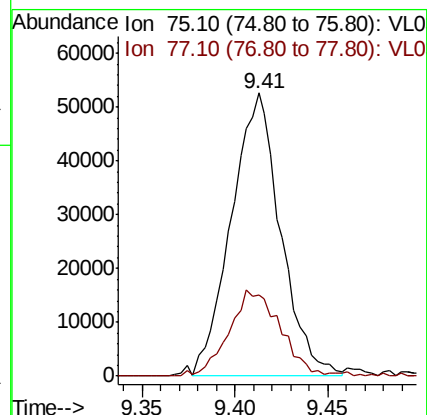
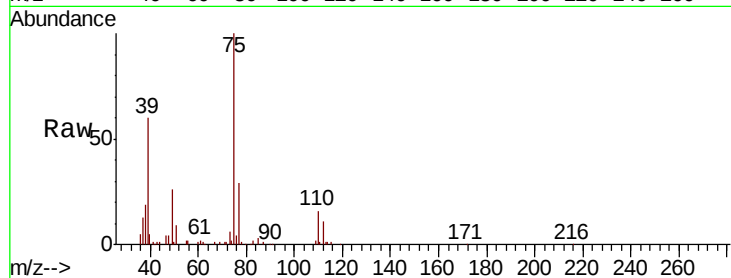
VSTDIC001

Tgt Ion: 75 Resp: 97454

Ion Ratio Lower Upper

75 100

77 28.7 24.4 36.6



#46

cis-1,3-Dichloropropene

Concen: 0.861 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VL033702.D

Acq: 17 May 2019 3:18

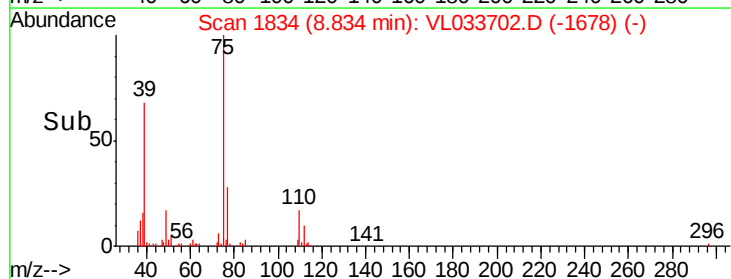
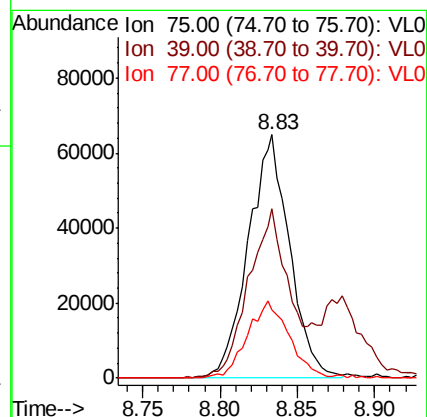
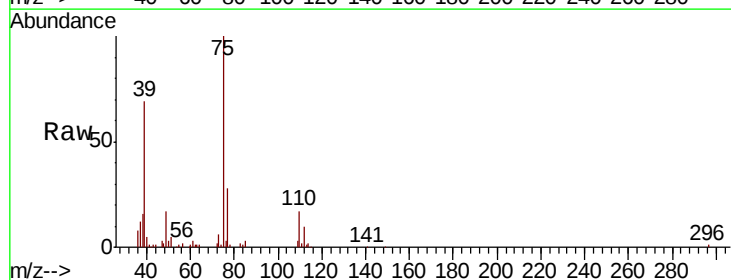
Tgt Ion: 75 Resp: 120494

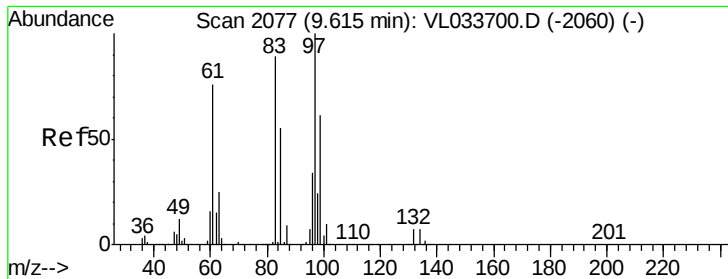
Ion Ratio Lower Upper

75 100

39 69.4 54.4 81.6

77 28.0 26.6 39.8

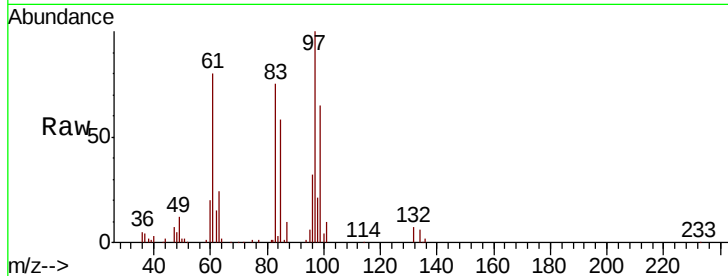




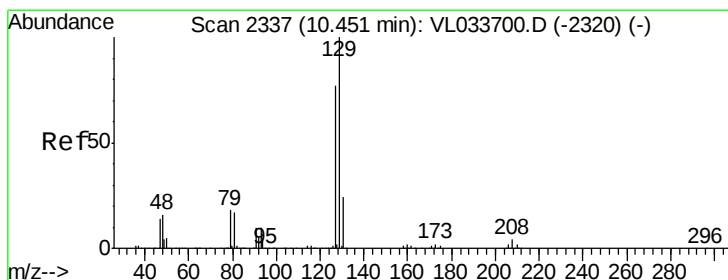
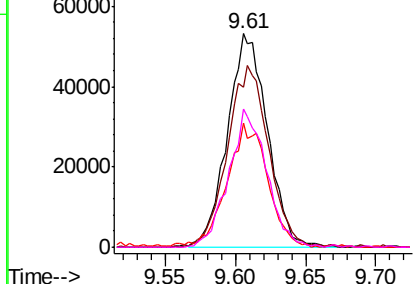
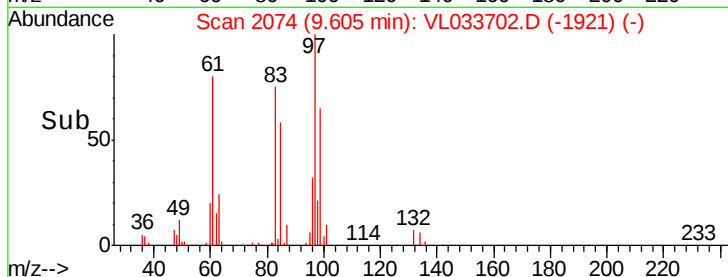
#47
 1,1,2-Trichloroethane
 Concen: 1.014 ppbv
 RT: 9.61 min Scan# 2074
 Delta R.T. -0.01 min
 Lab File: VL033702.D
 Acq: 17 May 2019 3:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion: 97 Resp: 105441
 Ion Ratio Lower Upper
 97 100
 83 75.2 70.8 106.2
 85 57.5 43.7 65.5
 99 64.4 48.7 73.1

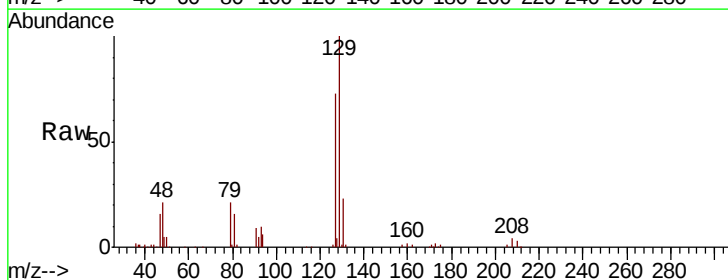


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

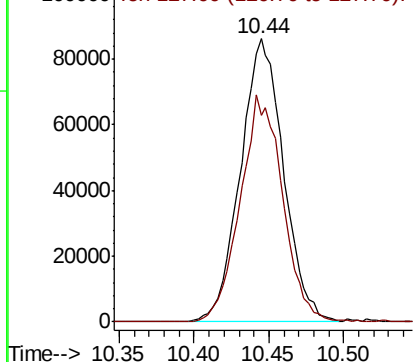
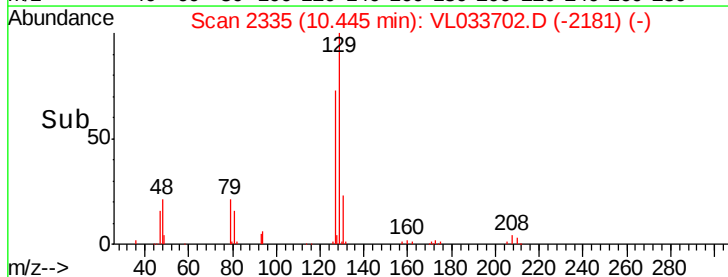


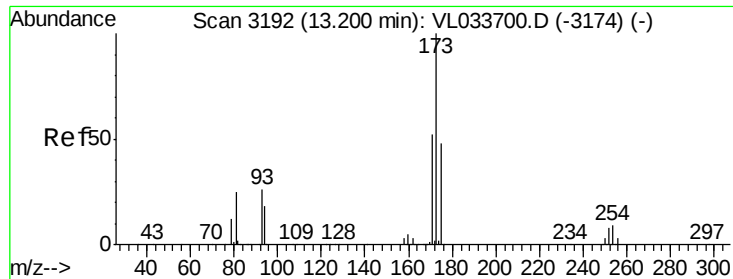
#48
 Dibromochloromethane
 Concen: 0.978 ppbv
 RT: 10.44 min Scan# 2335
 Delta R.T. -0.01 min
 Lab File: VL033702.D
 Acq: 17 May 2019 3:18

Tgt Ion: 129 Resp: 172771
 Ion Ratio Lower Upper
 129 100
 127 78.8 38.6 116.0



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





#49

Bromoform

Concen: 0.941 ppbv

RT: 13.19 min Scan# 3190

Delta R.T. -0.01 min

Lab File: VL033702.D

Acq: 17 May 2019 3:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

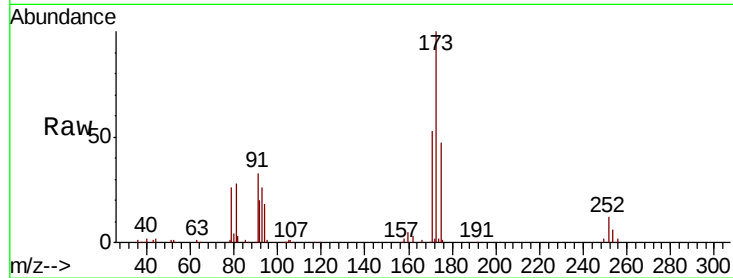
Tgt Ion: 173 Resp: 142150

Ion Ratio Lower Upper

173 100

175 49.0 38.6 58.0

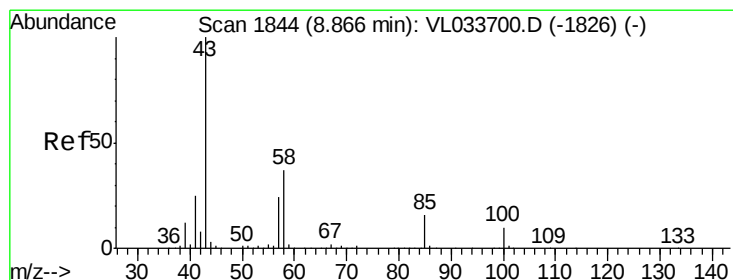
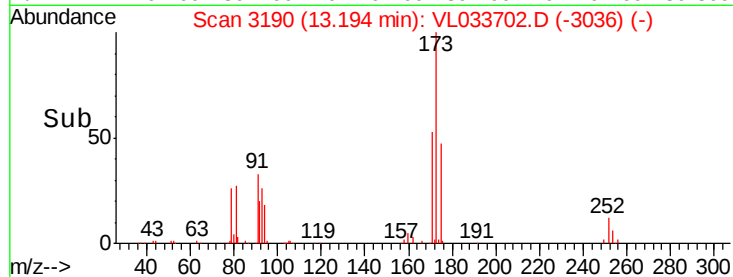
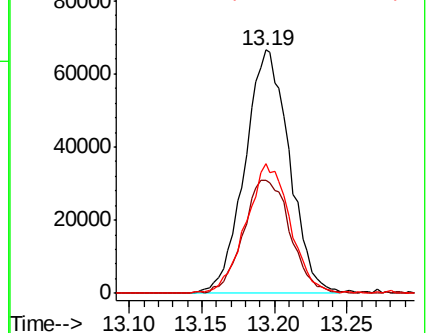
171 52.8 41.5 62.3



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: 0.998 ppbv

RT: 8.88 min Scan# 1847

Delta R.T. 0.01 min

Lab File: VL033702.D

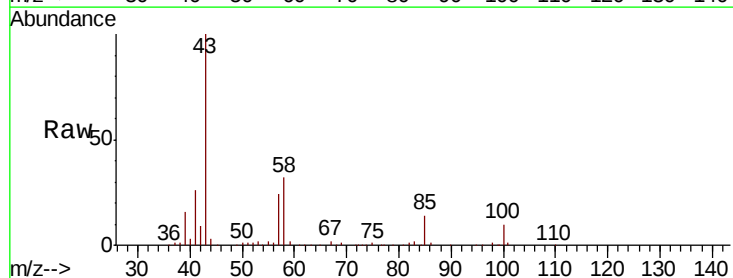
Acq: 17 May 2019 3:18

Tgt Ion: 43 Resp: 260869

Ion Ratio Lower Upper

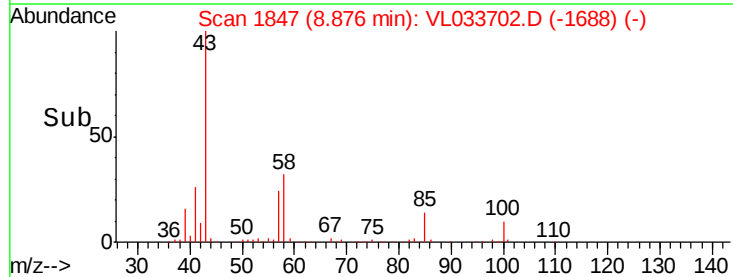
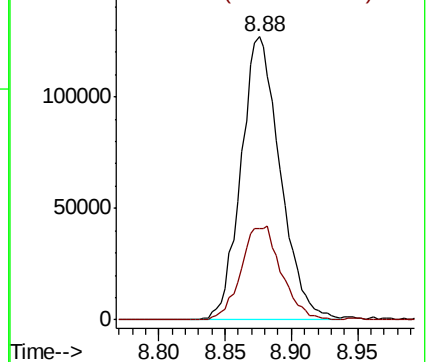
43 100

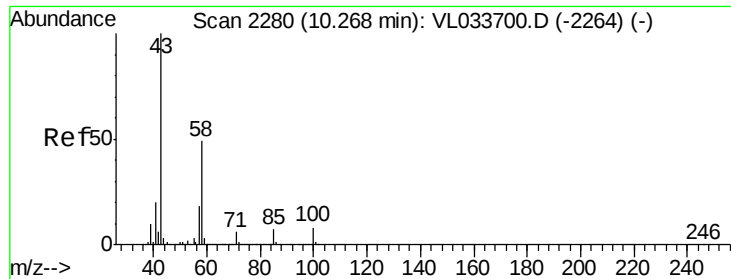
58 34.3 28.6 43.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 0.933 ppbv

RT: 10.28 min Scan# 2284

Delta R.T. 0.01 min

Lab File: VL033702.D

Acq: 17 May 2019 3:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

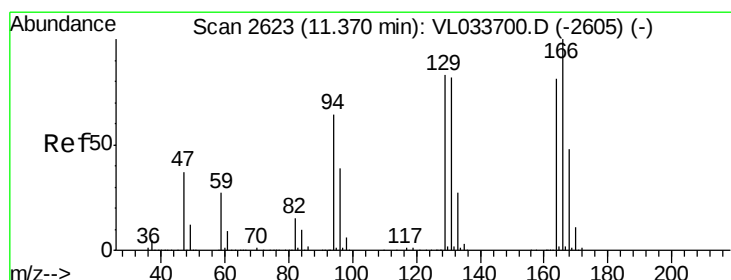
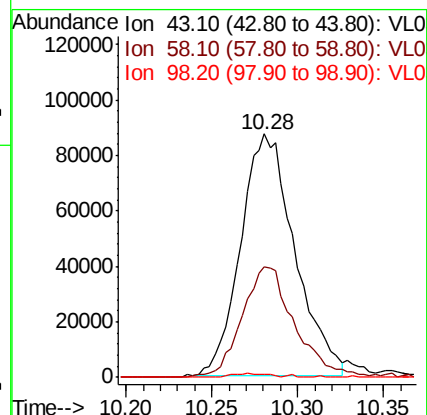
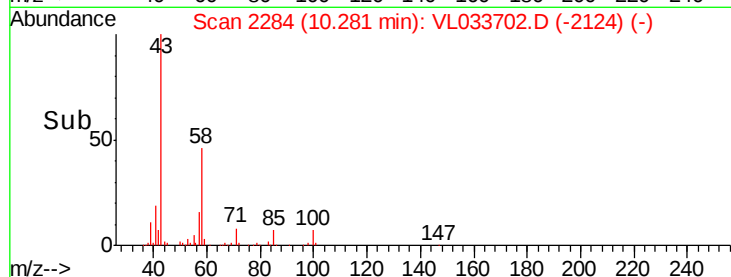
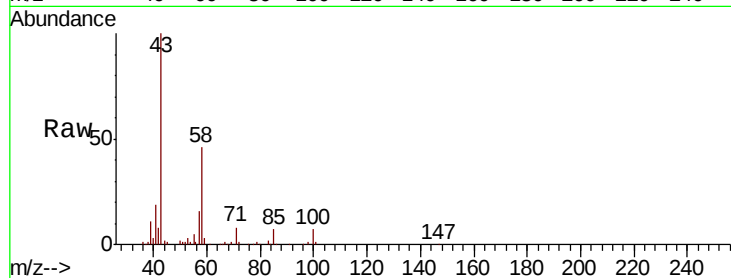
Tgt Ion: 43 Resp: 190014

Ion Ratio Lower Upper

43 100

58 45.1 38.7 58.1

98 1.3 0.2 0.4#



#52

Tetrachloroethene

Concen: 0.518 ppbv

RT: 11.36 min Scan# 2621

Delta R.T. -0.01 min

Lab File: VL033702.D

Acq: 17 May 2019 3:18

Tgt Ion: 164 Resp: 44622

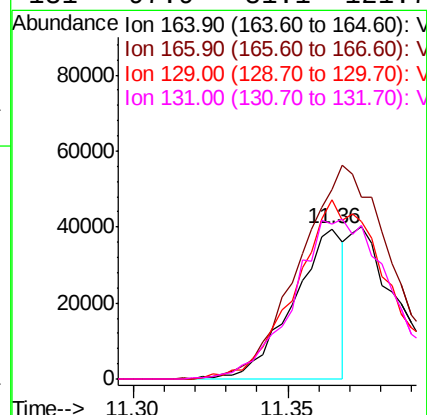
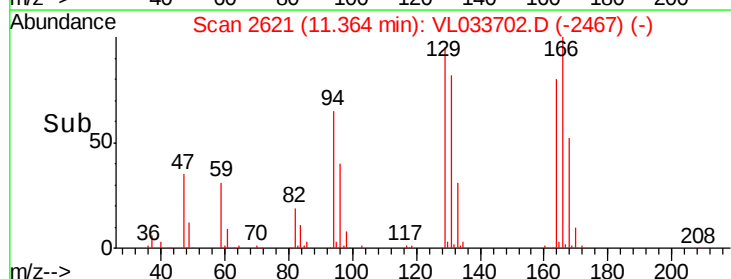
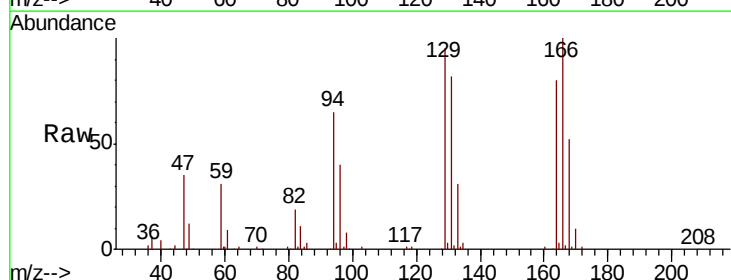
Ion Ratio Lower Upper

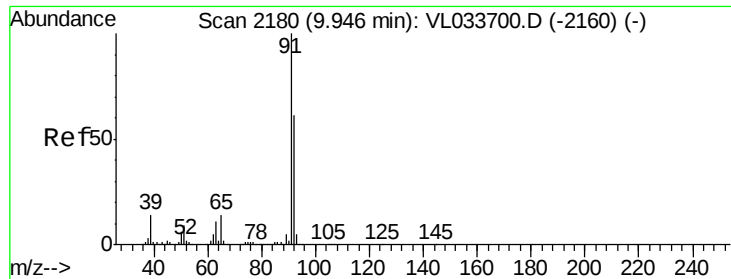
164 100

166 123.0 98.9 148.3

129 113.9 81.8 122.6

131 97.9 81.1 121.7





#53

Toluene

Concen: 0.967 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033702.D

Acq: 17 May 2019 3:18

Instrument :

MSVOA_L

ClientSampleId :

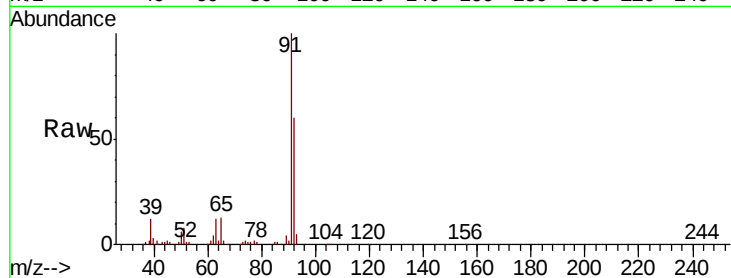
VSTDIC001

Tgt Ion: 91 Resp: 254592

Ion Ratio Lower Upper

91 100

92 58.4 47.6 71.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.94

150000

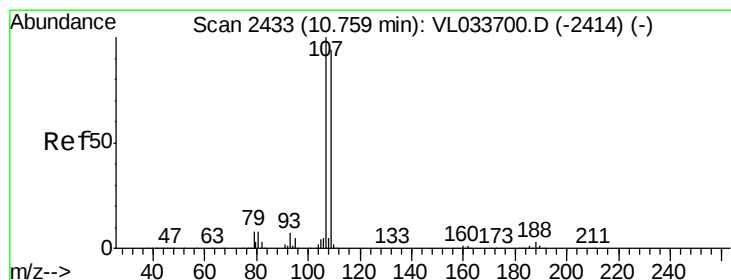
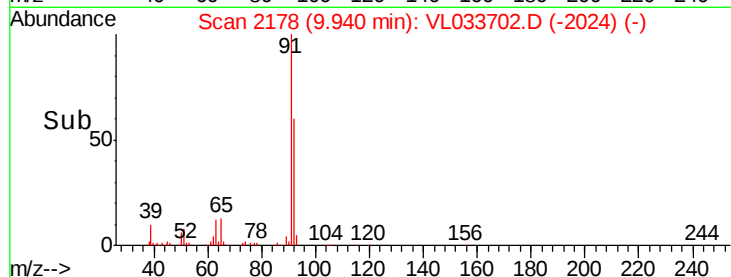
100000

50000

0

9.85 9.90 9.95 10.00

Time-->



#54

1,2-Dibromoethane

Concen: 0.996 ppbv

RT: 10.76 min Scan# 2432

Delta R.T. -0.00 min

Lab File: VL033702.D

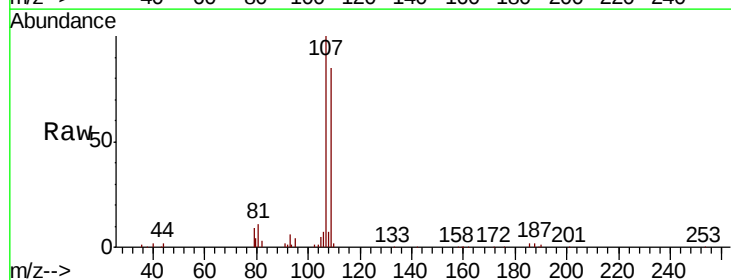
Acq: 17 May 2019 3:18

Tgt Ion: 107 Resp: 156387

Ion Ratio Lower Upper

107 100

109 85.4 75.2 112.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

10.76

80000

60000

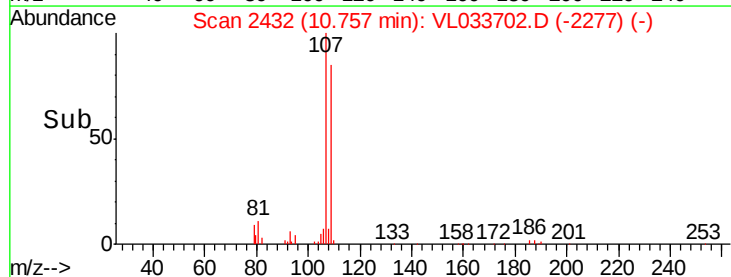
40000

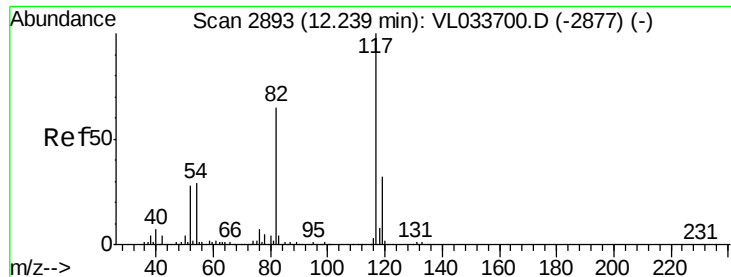
20000

0

10.70 10.75 10.80

Time-->

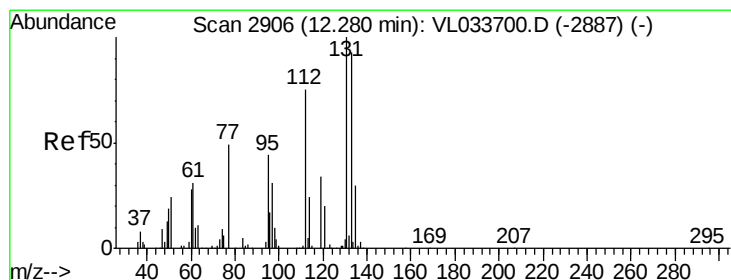
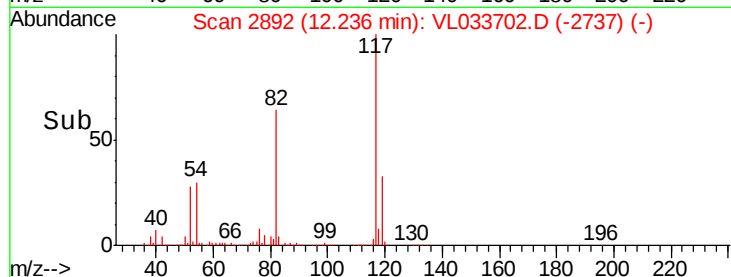
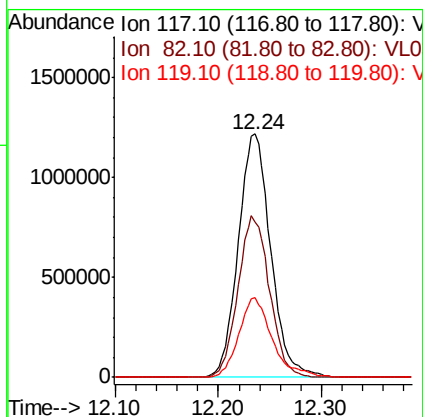
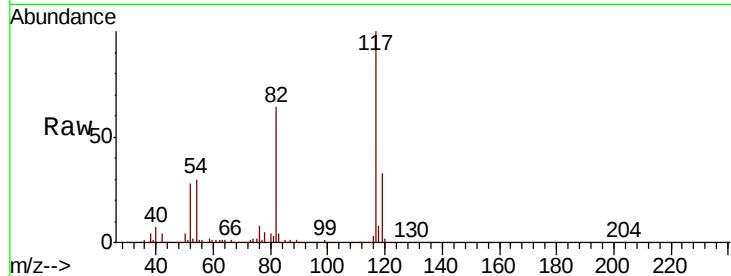




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.00 min
Lab File: VL033702.D
Acq: 17 May 2019 3:18

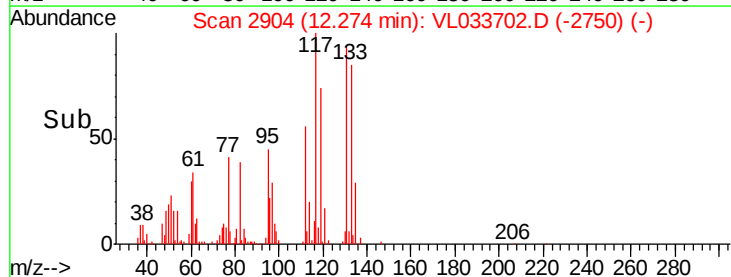
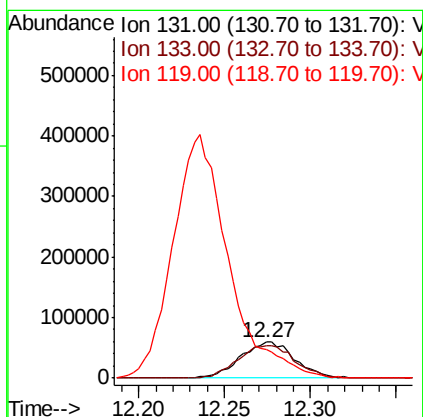
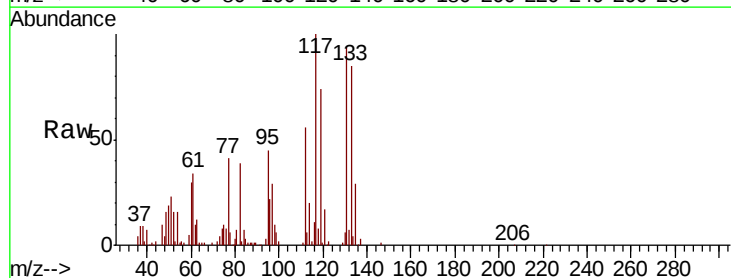
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

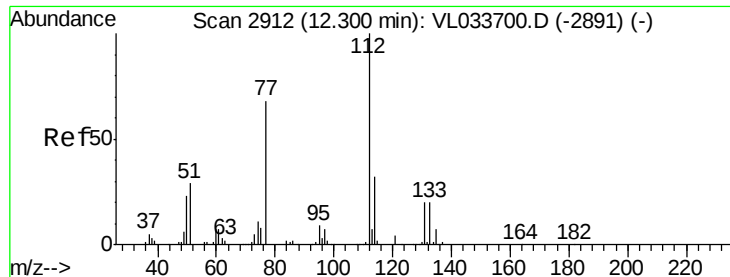
Tgt Ion:117 Resp: 2665915
Ion Ratio Lower Upper
117 100
82 64.7 49.4 74.0
119 33.9 24.9 37.3



#56
1,1,1,2-Tetrachloroethane
Concen: 1.019 ppbv
RT: 12.27 min Scan# 2904
Delta R.T. -0.01 min
Lab File: VL033702.D
Acq: 17 May 2019 3:18

Tgt Ion:131 Resp: 126308
Ion Ratio Lower Upper
131 100
133 98.3 76.6 114.8
119 716.3 49.0 73.4#

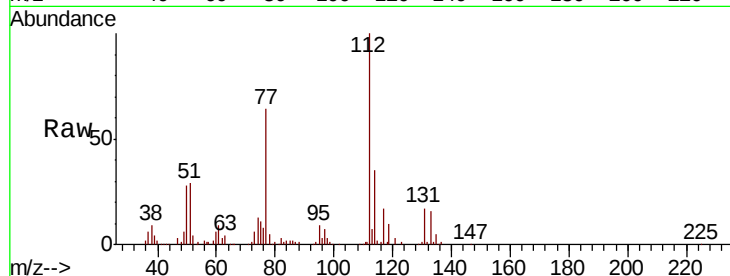




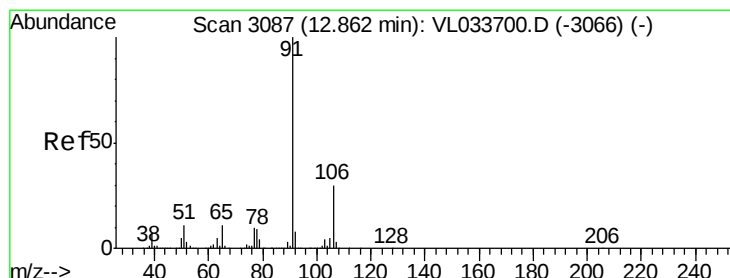
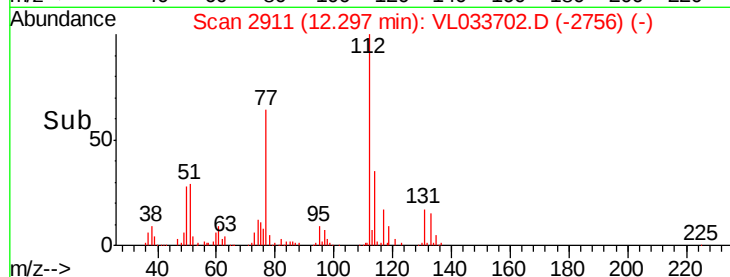
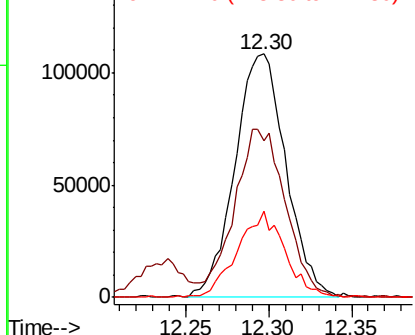
#57
Chlorobenzene
Concen: 1.048 ppbv
RT: 12.30 min Scan# 2911
Delta R.T. -0.00 min
Lab File: VL033702.D
Acq: 17 May 2019 3:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 112 Resp: 231566
Ion Ratio Lower Upper
112 100
77 62.8 55.4 83.0
114 36.8 29.3 35.8#

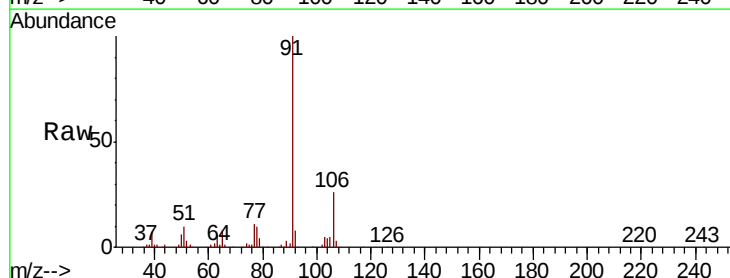


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

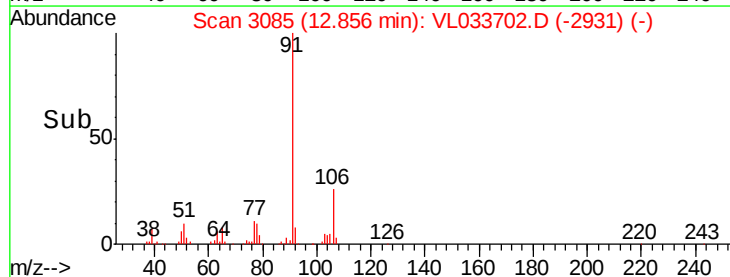
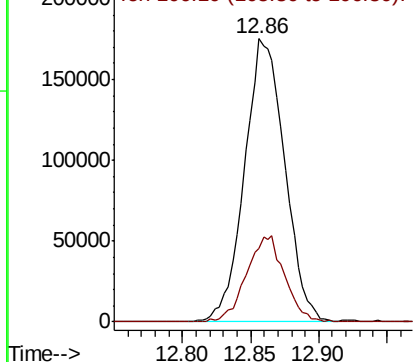


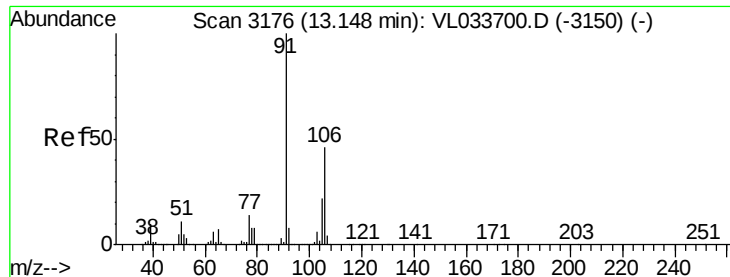
#58
Ethyl Benzene
Concen: 1.021 ppbv
RT: 12.86 min Scan# 3085
Delta R.T. -0.01 min
Lab File: VL033702.D
Acq: 17 May 2019 3:18

Tgt Ion: 91 Resp: 358622
Ion Ratio Lower Upper
91 100
106 26.1 23.9 35.9



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

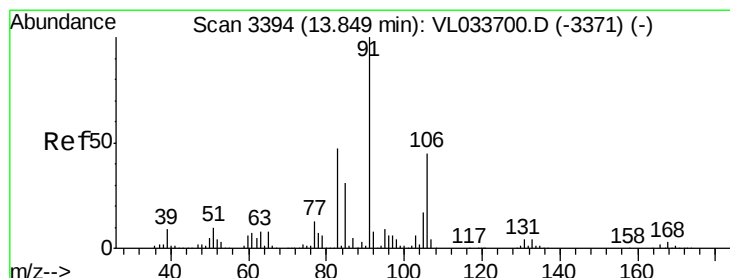
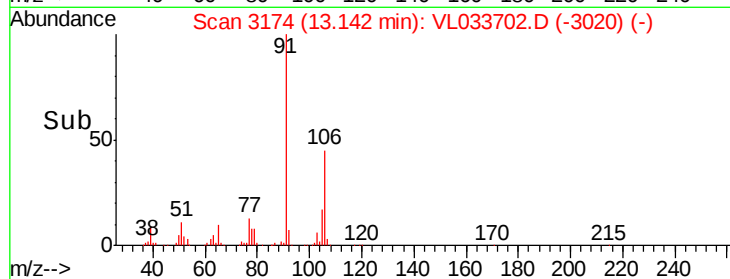
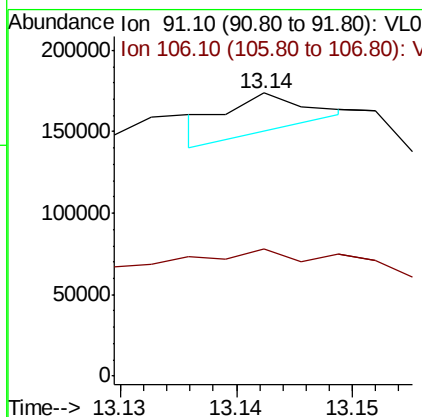
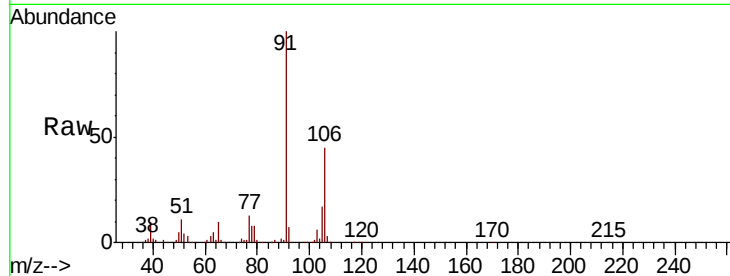




#59
m/p-Xylene
Concen: 0.039 ppbv
RT: 13.14 min Scan# 3174
Delta R.T. -0.01 min
Lab File: VL033702.D
Acq: 17 May 2019 3:18

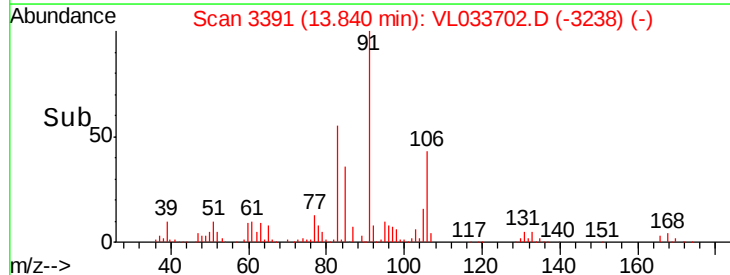
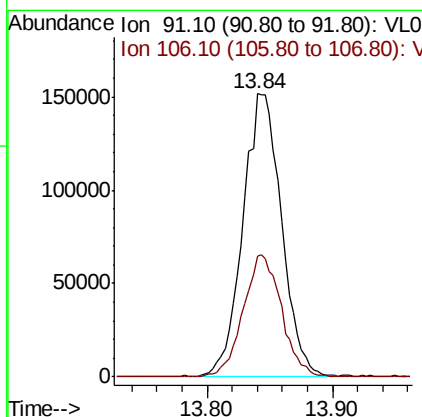
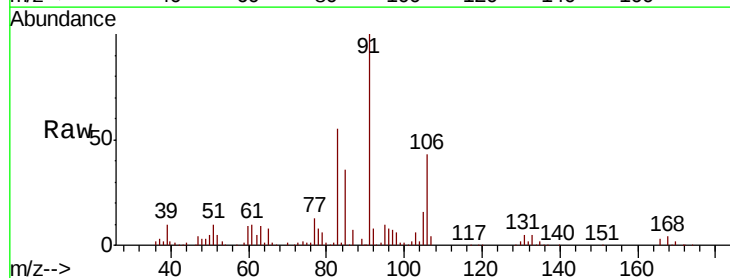
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

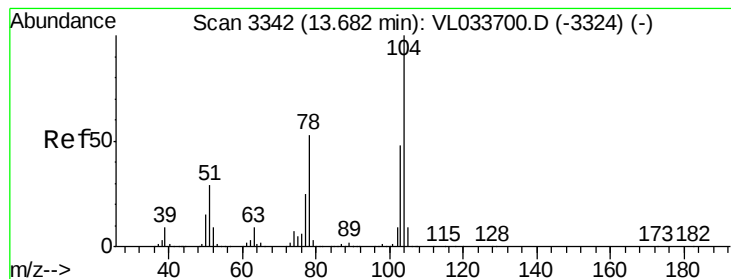
Tgt Ion: 91 Resp: 12040
Ion Ratio Lower Upper
91 100
106 2334.9 35.8 53.6#



#60
o-Xylene
Concen: 1.036 ppbv
RT: 13.84 min Scan# 3391
Delta R.T. -0.01 min
Lab File: VL033702.D
Acq: 17 May 2019 3:18

Tgt Ion: 91 Resp: 323509
Ion Ratio Lower Upper
91 100
106 42.7 21.6 64.8





#61

Styrene

Concen: 0.970 ppbv

RT: 13.68 min Scan# 3342

Delta R.T. 0.00 min

Lab File: VL033702.D

Acq: 17 May 2019 3:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

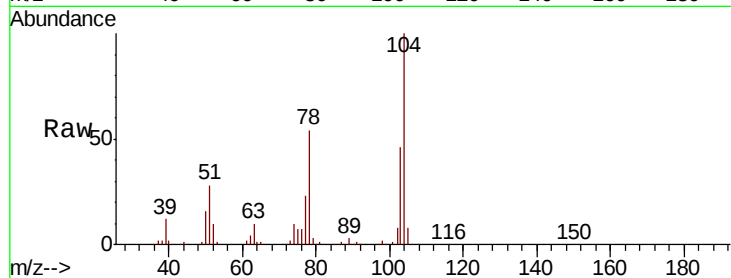
Tgt Ion:104 Resp: 202113

Ion Ratio Lower Upper

104 100

78 54.3 42.6 64.0

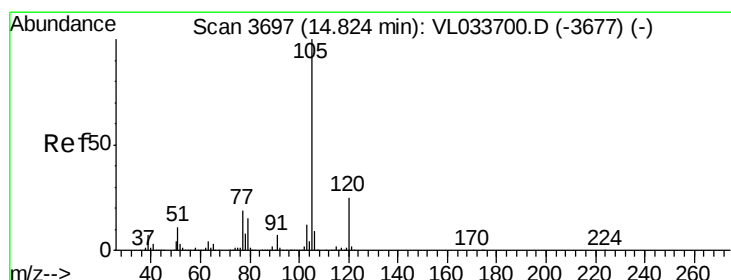
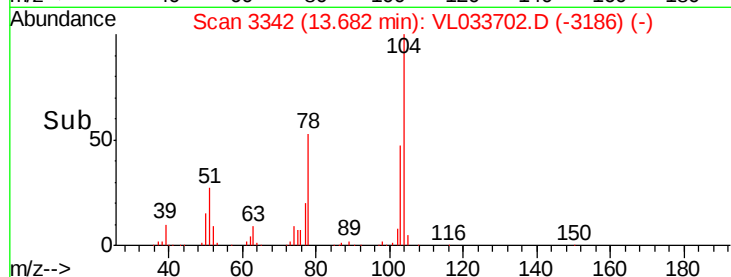
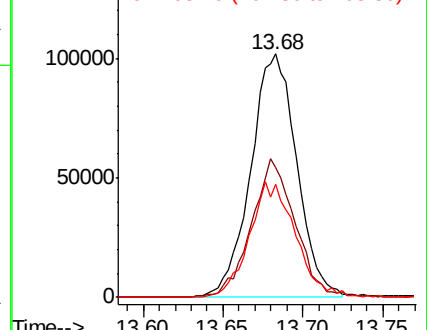
103 47.3 37.8 56.6



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: 1.004 ppbv

RT: 14.82 min Scan# 3696

Delta R.T. -0.00 min

Lab File: VL033702.D

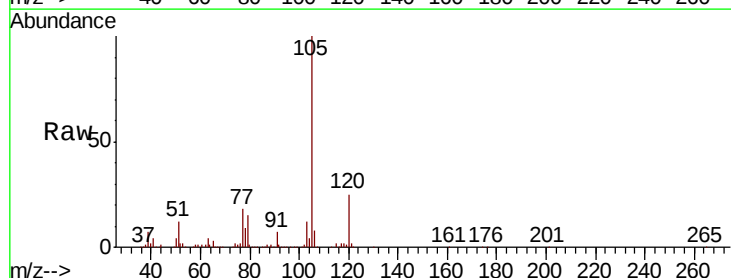
Acq: 17 May 2019 3:18

Tgt Ion:105 Resp: 428739

Ion Ratio Lower Upper

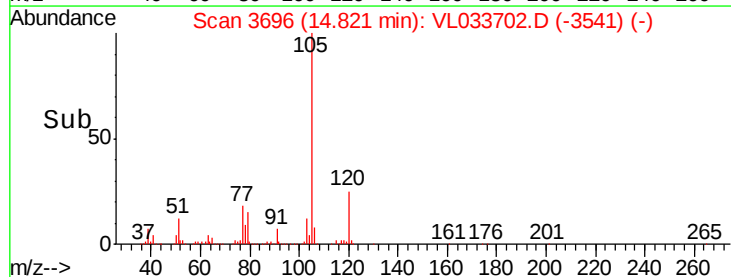
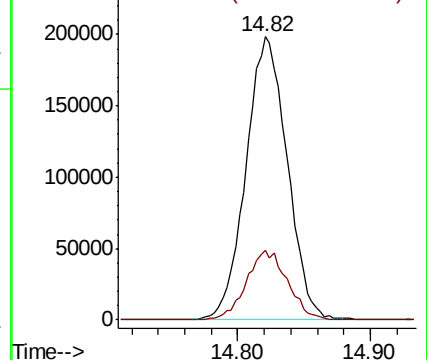
105 100

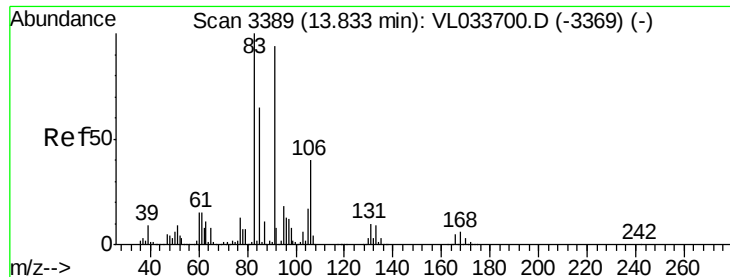
120 24.4 20.1 30.1



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: 1.066 ppbv

RT: 13.83 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VL033702.D

Acq: 17 May 2019 3:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

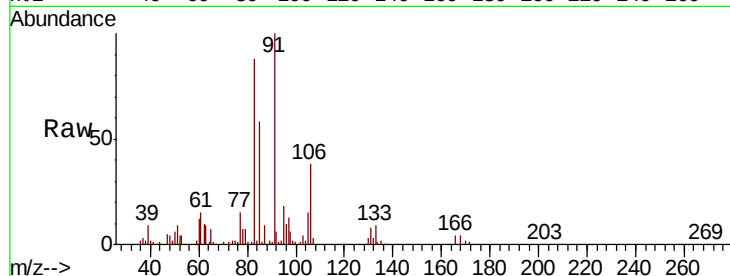
Tgt Ion: 83 Resp: 241385

Ion Ratio Lower Upper

83 100

131 10.1 4.8 14.3

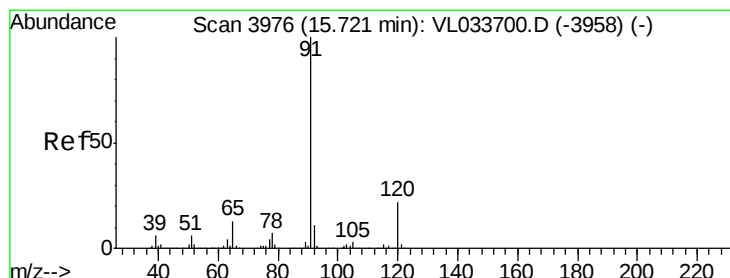
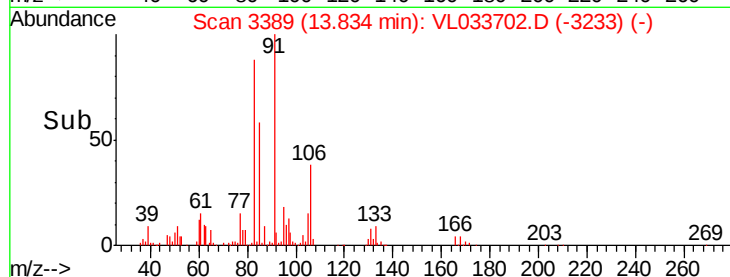
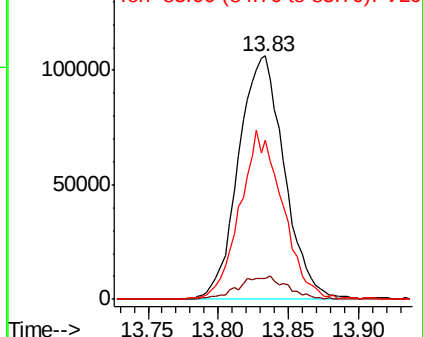
85 65.4 32.3 96.9



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 1.024 ppbv

RT: 15.72 min Scan# 3975

Delta R.T. -0.00 min

Lab File: VL033702.D

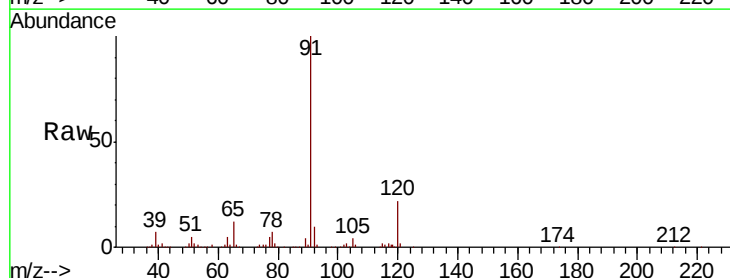
Acq: 17 May 2019 3:18

Tgt Ion: 120 Resp: 112840

Ion Ratio Lower Upper

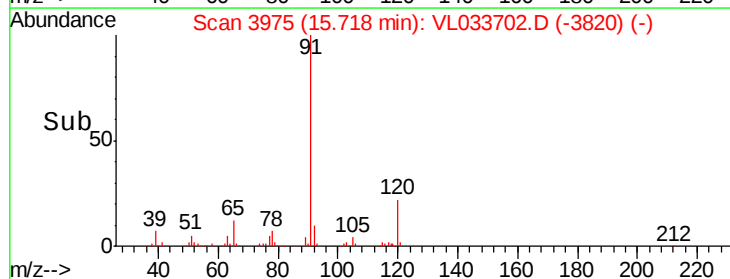
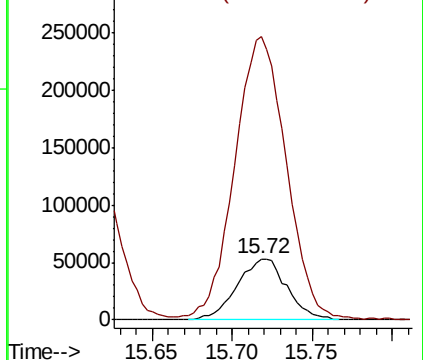
120 100

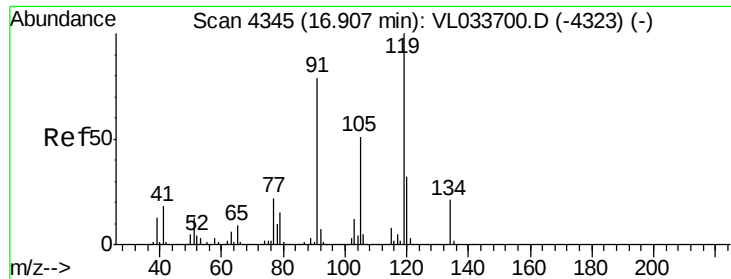
91 484.8 379.1 568.7



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

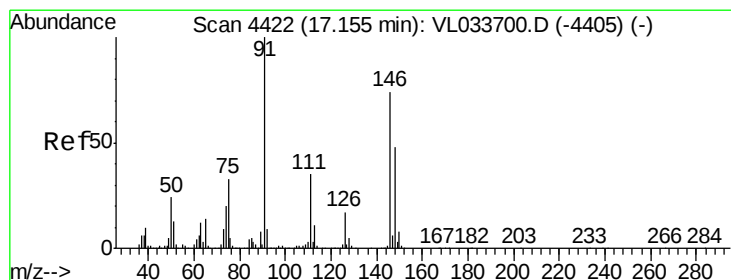
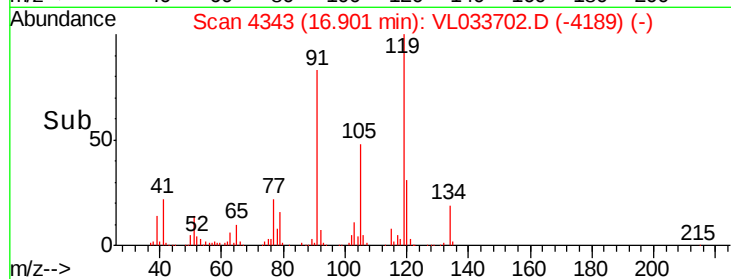
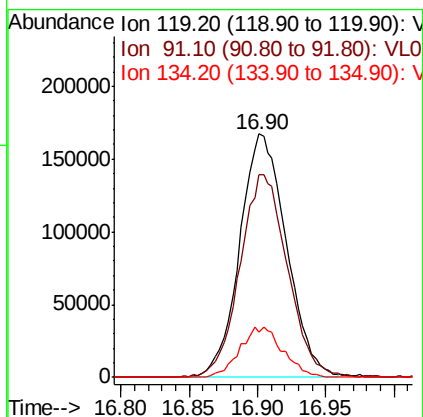
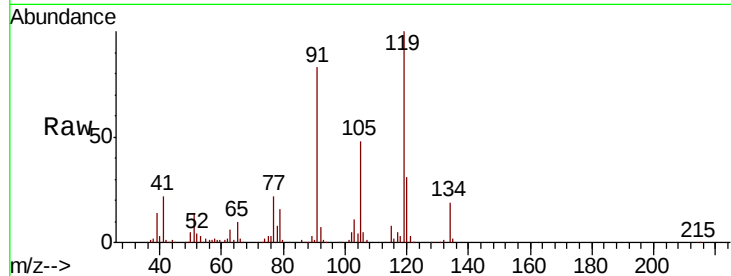




#65
 tert-Butylbenzene
 Concen: 1.012 ppbv
 RT: 16.90 min Scan# 4343
 Delta R.T. -0.01 min
 Lab File: VL033702.D
 Acq: 17 May 2019 3:18

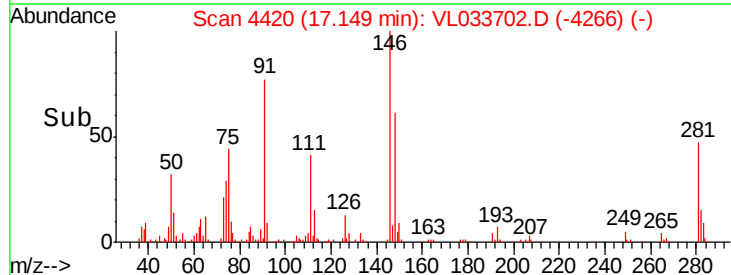
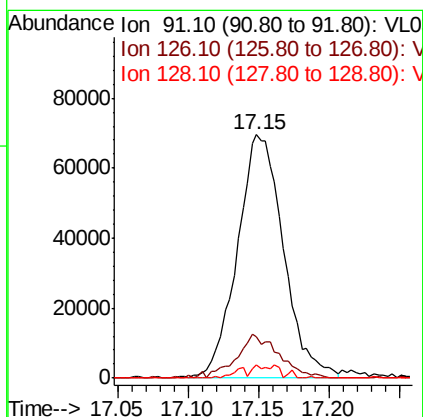
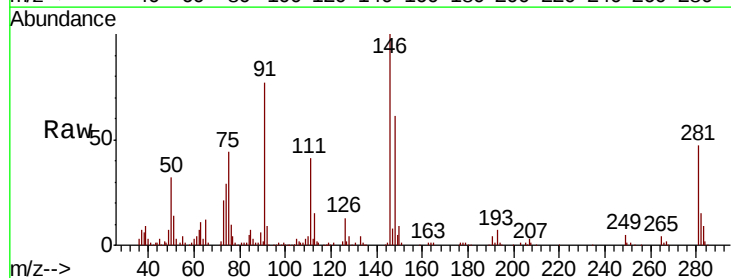
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

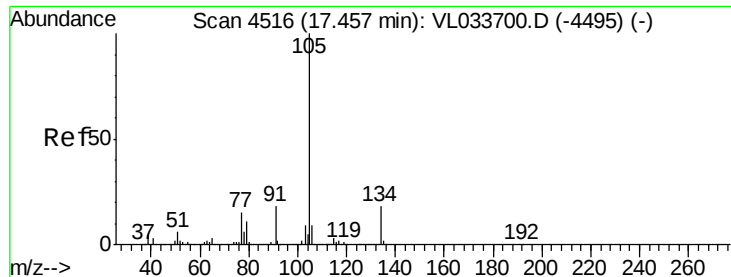
Tgt Ion: 119 Resp: 396198
 Ion Ratio Lower Upper
 119 100
 91 85.0 65.3 97.9
 134 19.1 15.7 23.5



#66
 Benzyl Chloride
 Concen: 0.887 ppbv
 RT: 17.15 min Scan# 4420
 Delta R.T. -0.01 min
 Lab File: VL033702.D
 Acq: 17 May 2019 3:18

Tgt Ion: 91 Resp: 159023
 Ion Ratio Lower Upper
 91 100
 126 16.7 13.5 20.3
 128 4.3 4.3 6.5#

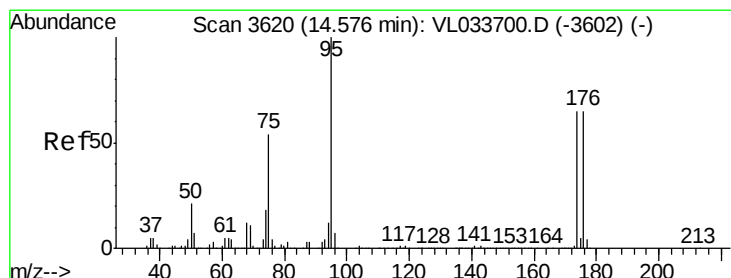
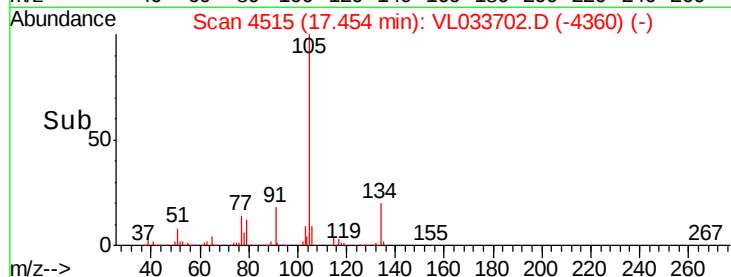
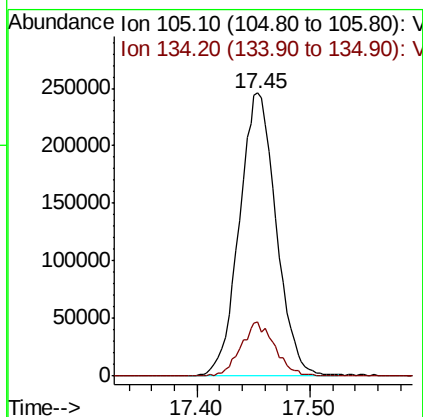
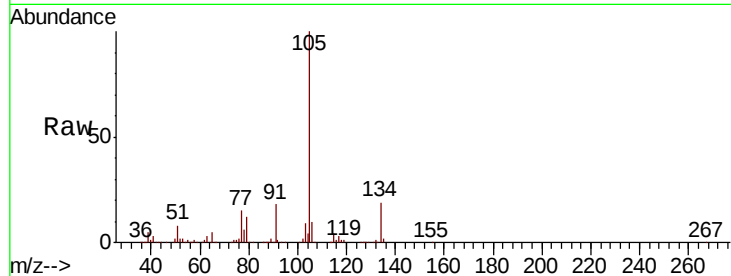




#67
 sec-Butylbenzene
 Concen: 1.018 ppbv
 RT: 17.45 min Scan# 4515
 Delta R.T. -0.00 min
 Lab File: VL033702.D
 Acq: 17 May 2019 3:18

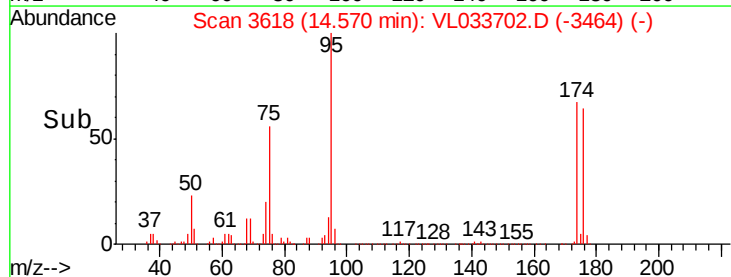
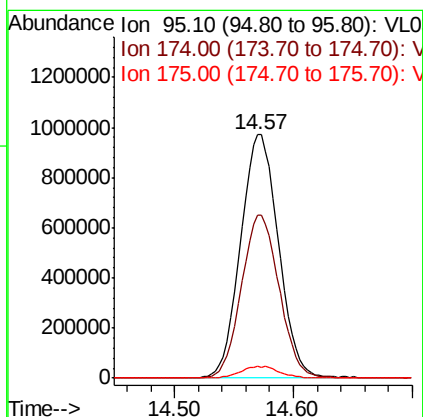
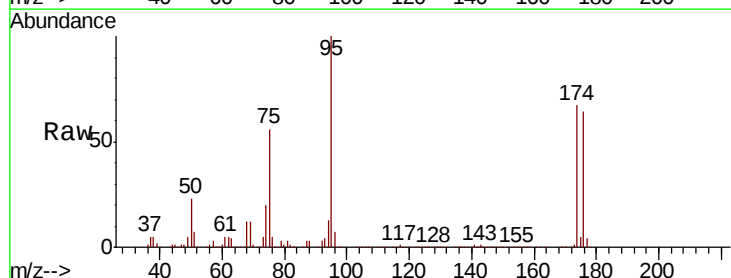
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

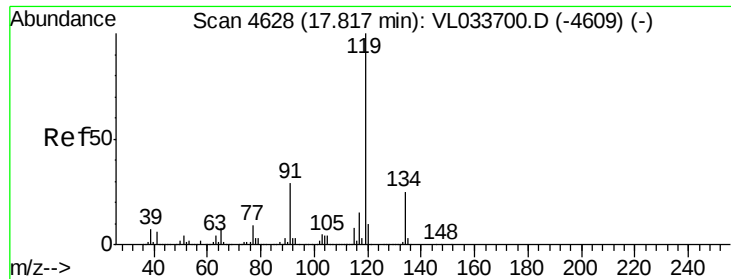
Tgt Ion: 105 Resp: 555133
 Ion Ratio Lower Upper
 105 100
 134 17.8 14.6 22.0



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.790 ppbv
 RT: 14.57 min Scan# 3618
 Delta R.T. -0.01 min
 Lab File: VL033702.D
 Acq: 17 May 2019 3:18

Tgt Ion: 95 Resp: 2139470
 Ion Ratio Lower Upper
 95 100
 174 67.3 53.9 80.9
 175 4.9 3.8 5.8

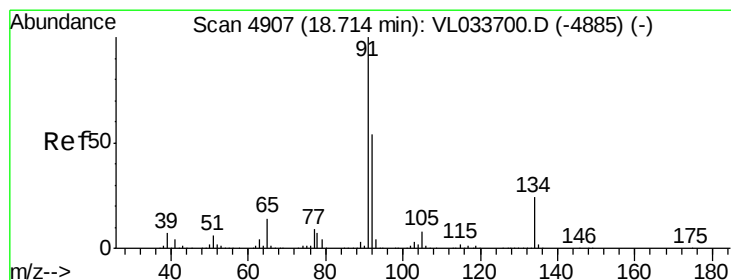
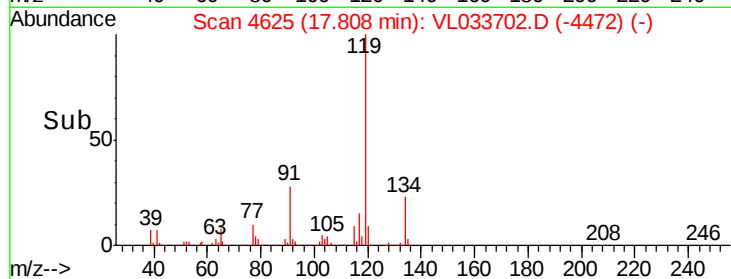
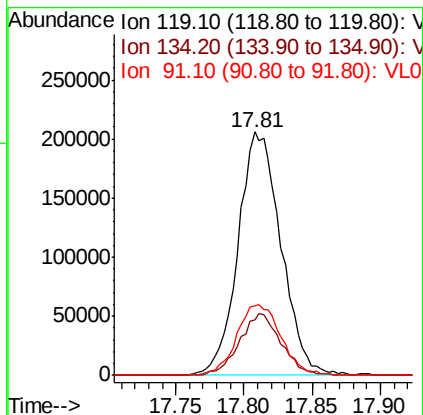
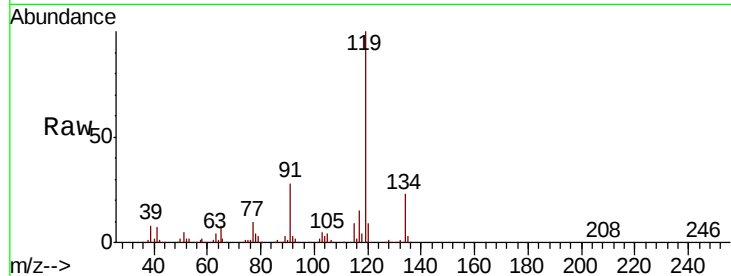




#69
p-Isopropyltoluene
Concen: 0.997 ppbv
RT: 17.81 min Scan# 4625
Delta R.T. -0.01 min
Lab File: VL033702.D
Acq: 17 May 2019 3:18

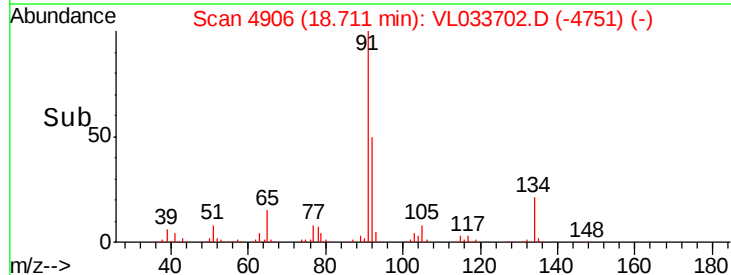
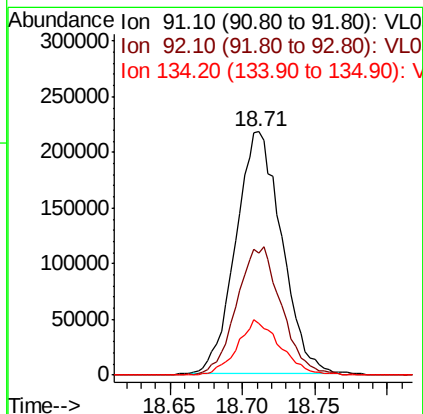
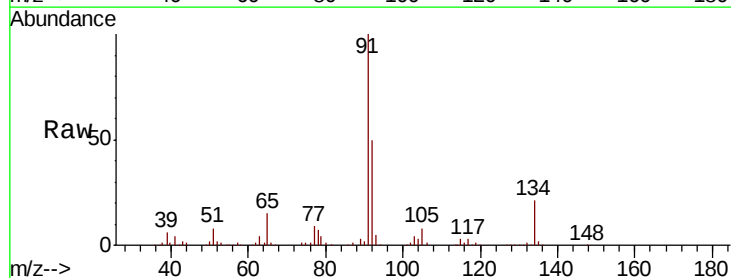
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

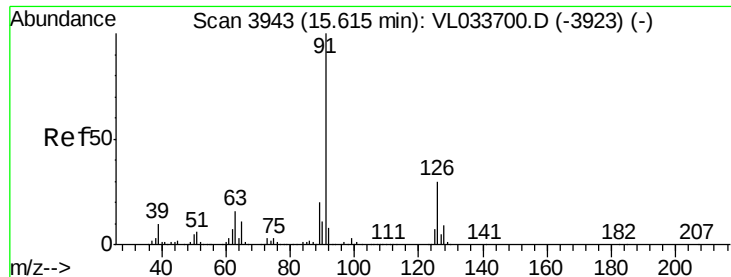
Tgt Ion: 119 Resp: 448416
Ion Ratio Lower Upper
119 100
134 24.7 20.3 30.5
91 30.0 23.1 34.7



#70
n-Butylbenzene
Concen: 1.008 ppbv
RT: 18.71 min Scan# 4906
Delta R.T. -0.00 min
Lab File: VL033702.D
Acq: 17 May 2019 3:18

Tgt Ion: 91 Resp: 479001
Ion Ratio Lower Upper
91 100
92 52.1 42.6 63.8
134 21.3 18.1 27.1





#71

2-Chlorotoluene

Concen: 1.003 ppbv

RT: 15.61 min Scan# 3943

Delta R.T. 0.00 min

Lab File: VL033702.D

Acq: 17 May 2019 3:18

Instrument :

MSVOA_L

ClientSampleId :

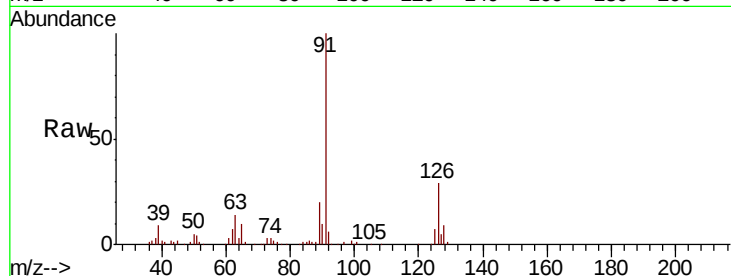
VSTDIC001

Tgt Ion: 91 Resp: 316194

Ion Ratio Lower Upper

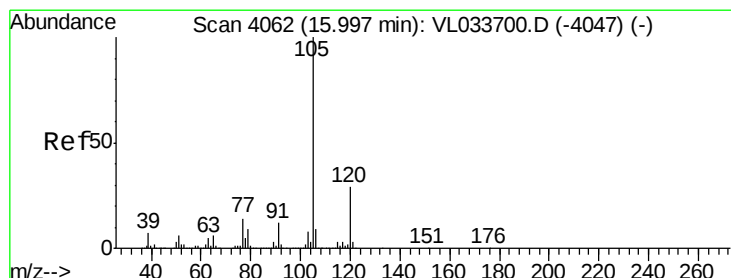
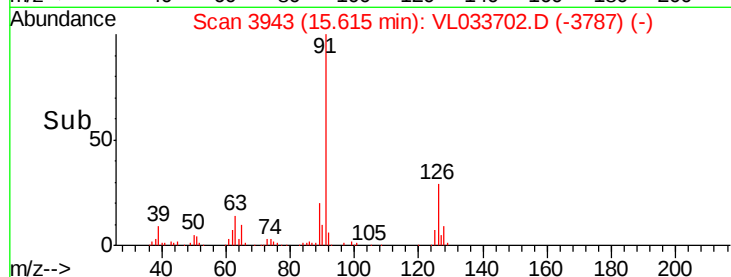
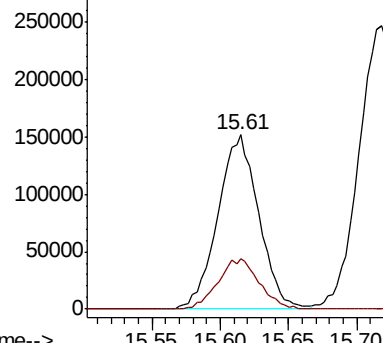
91 100

126 29.3 12.0 47.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.982 ppbv

RT: 15.99 min Scan# 4061

Delta R.T. -0.00 min

Lab File: VL033702.D

Acq: 17 May 2019 3:18

Tgt Ion: 105 Resp: 360124

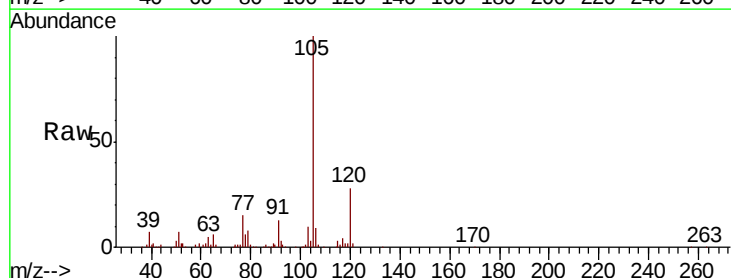
Ion Ratio Lower Upper

105 100

120 29.0 23.1 34.7

91 15.1 10.4 15.6

77 14.7 11.0 16.6

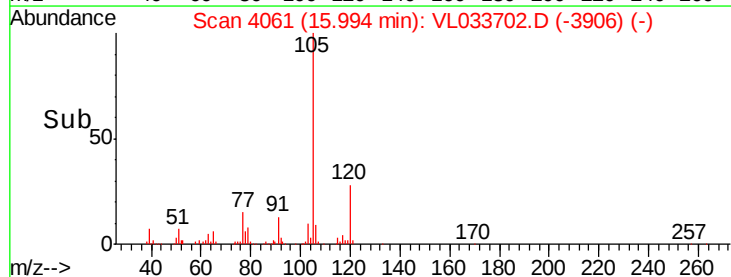
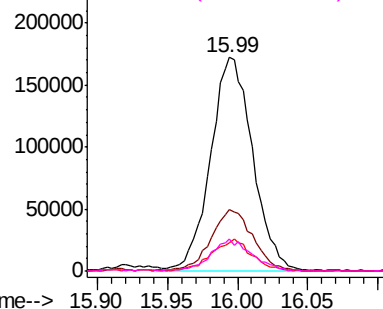


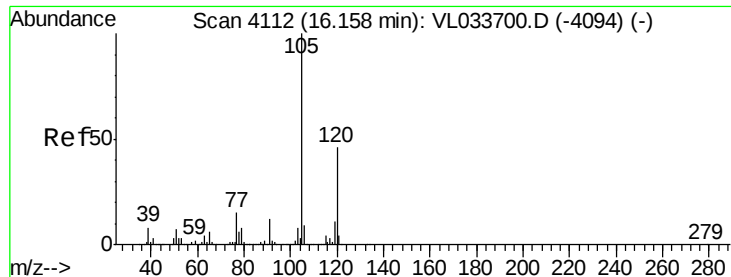
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 1.018 ppbv

RT: 16.15 min Scan# 4110

Delta R.T. -0.01 min

Lab File: VL033702.D

Acq: 17 May 2019 3:18

Instrument :

MSVOA_L

ClientSampleId :

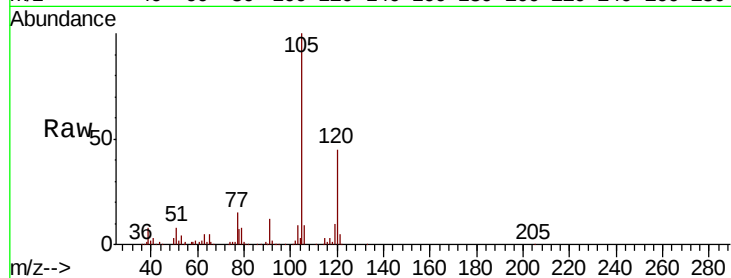
VSTDIC001

Tgt Ion:105 Resp: 360242

Ion Ratio Lower Upper

105 100

120 44.7 37.0 55.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.15

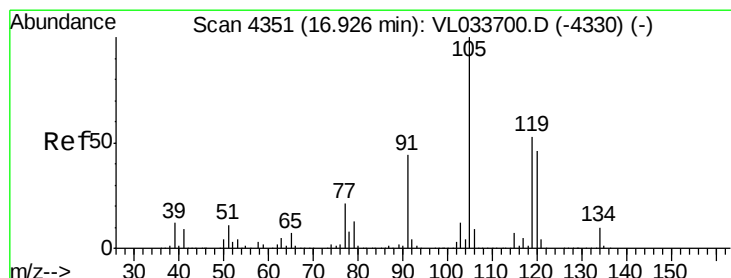
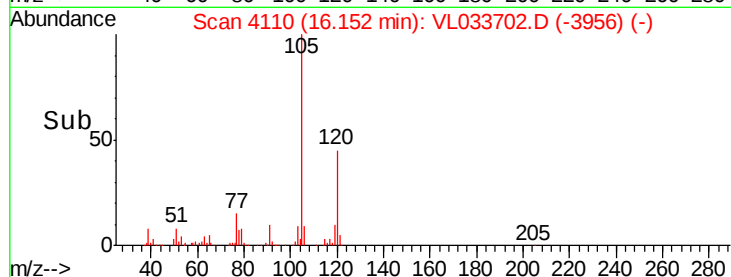
150000

100000

50000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 1.004 ppbv

RT: 16.92 min Scan# 4349

Delta R.T. -0.01 min

Lab File: VL033702.D

Acq: 17 May 2019 3:18

Tgt Ion:105 Resp: 396061

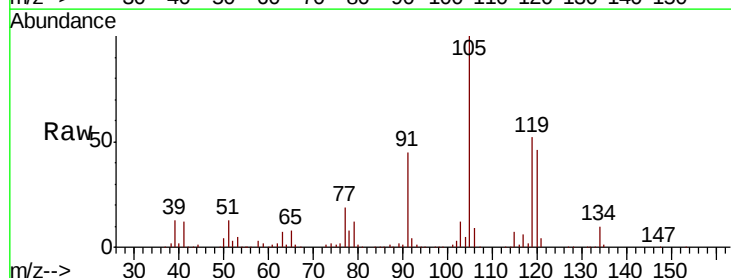
Ion Ratio Lower Upper

105 100

120 46.5 36.8 55.2

91 44.4 35.4 53.0

77 18.9 16.8 25.2



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): VLO

Ion 77.10 (76.80 to 77.80): VLO

16.92

250000

200000

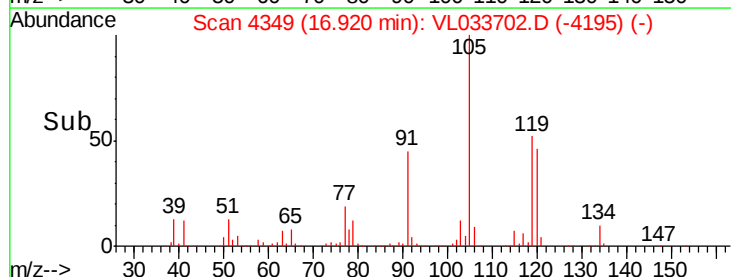
150000

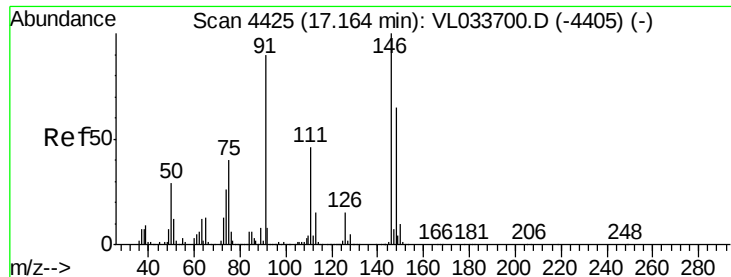
100000

50000

0

Time-->





#75

1,3-Dichlorobenzene

Concen: 0.473 ppbv

RT: 17.16 min Scan# 4424

Delta R.T. -0.00 min

Lab File: VL033702.D

Acq: 17 May 2019 3:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

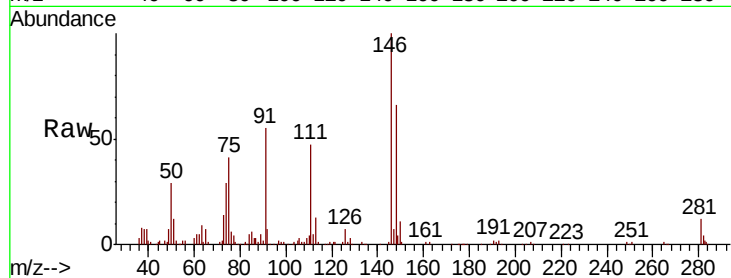
Tgt Ion:146 Resp: 112439

Ion Ratio Lower Upper

146 100

111 98.8 22.9 68.8#

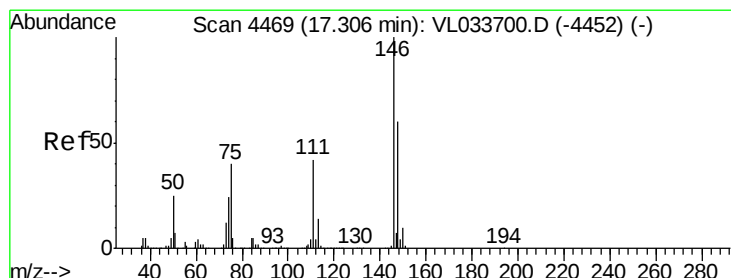
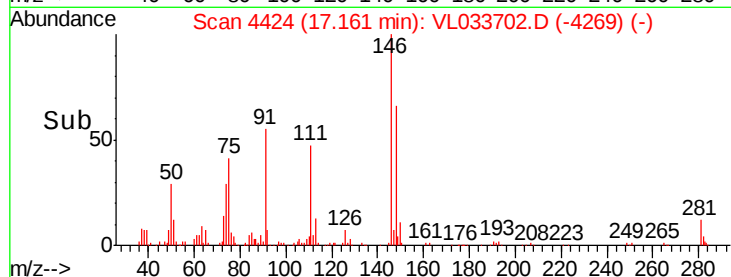
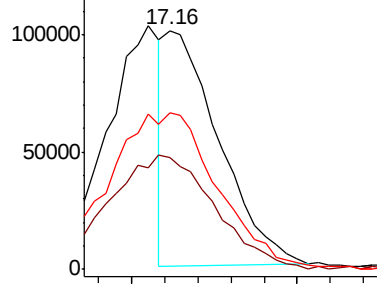
148 138.9 32.0 96.2#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 0.982 ppbv

RT: 17.30 min Scan# 4468

Delta R.T. -0.00 min

Lab File: VL033702.D

Acq: 17 May 2019 3:18

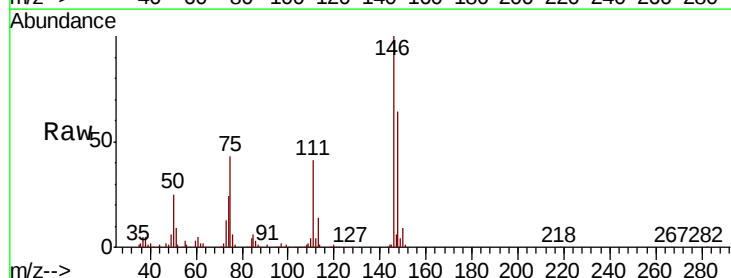
Tgt Ion:146 Resp: 221309

Ion Ratio Lower Upper

146 100

111 46.3 21.9 65.8

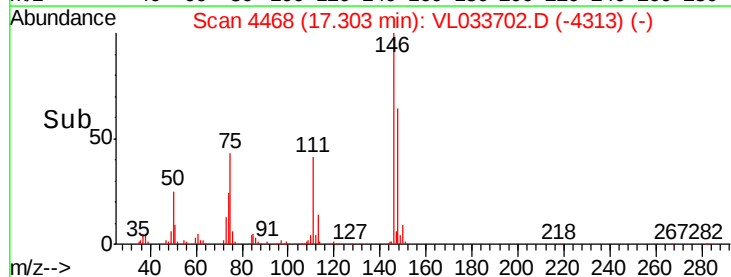
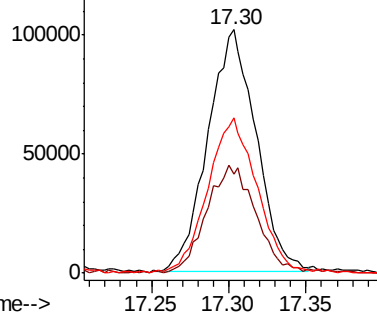
148 65.9 32.1 96.3

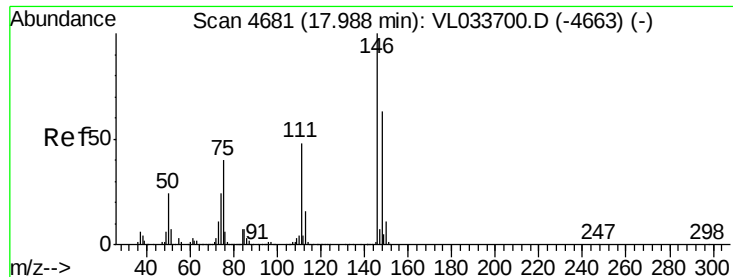


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 1.012 ppbv

RT: 17.98 min Scan# 4680

Delta R.T. -0.00 min

Lab File: VL033702.D

Acq: 17 May 2019 3:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

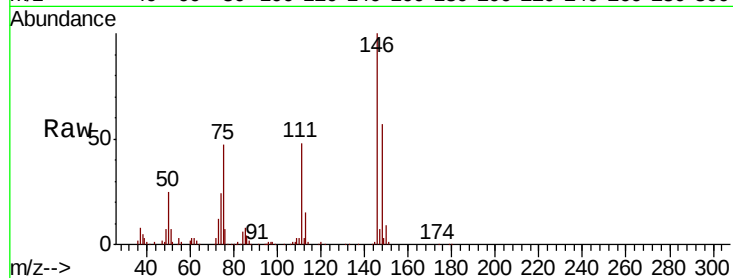
Tgt Ion:146 Resp: 223137

Ion Ratio Lower Upper

146 100

111 47.5 23.5 70.5

148 63.3 32.1 96.3

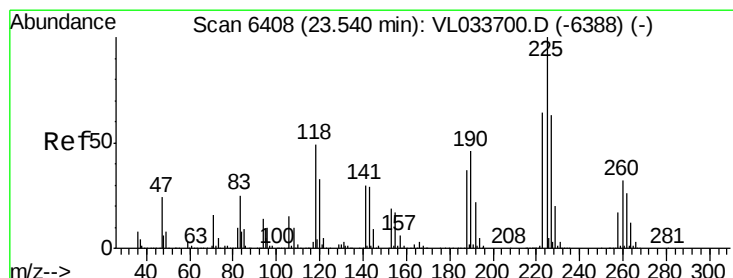
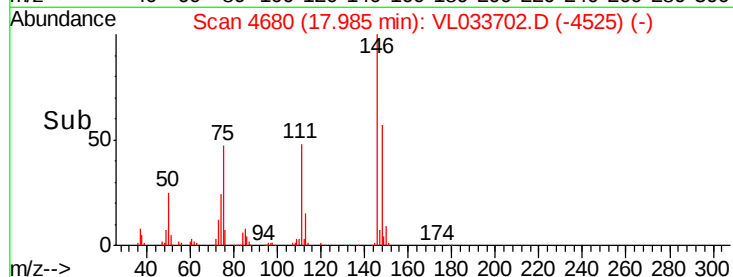
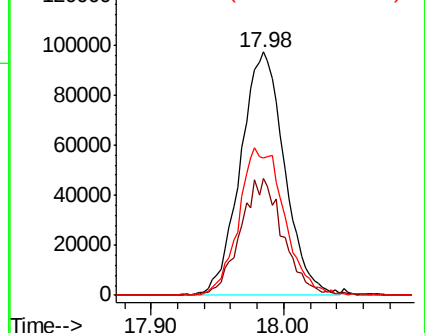


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 1.004 ppbv

RT: 23.54 min Scan# 6408

Delta R.T. 0.00 min

Lab File: VL033702.D

Acq: 17 May 2019 3:18

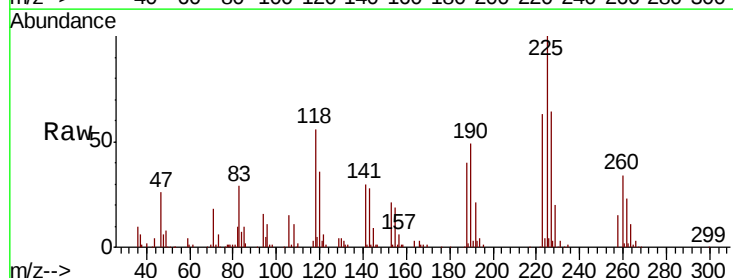
Tgt Ion:225 Resp: 175606

Ion Ratio Lower Upper

225 100

223 62.6 50.2 75.4

227 64.1 50.7 76.1

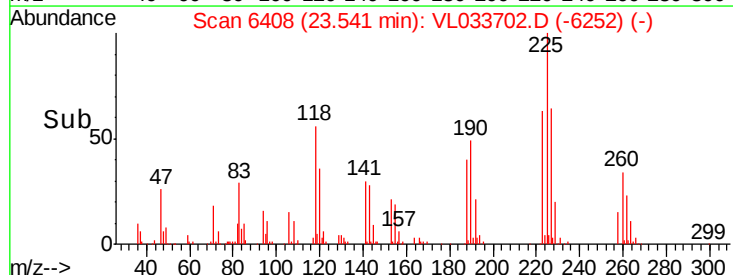
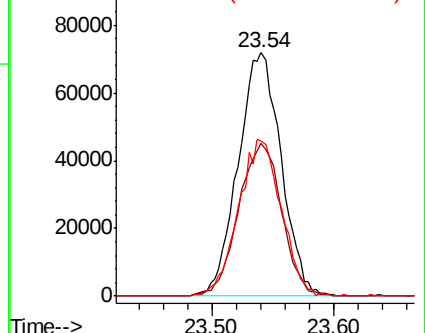


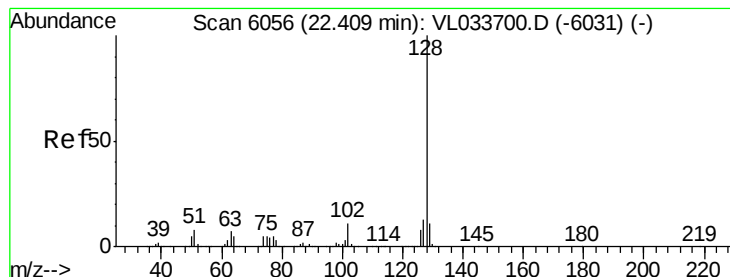
Abundance

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: 0.921 ppbv

RT: 22.41 min Scan# 6057

Delta R.T. 0.00 min

Lab File: VL033702.D

Acq: 17 May 2019 3:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

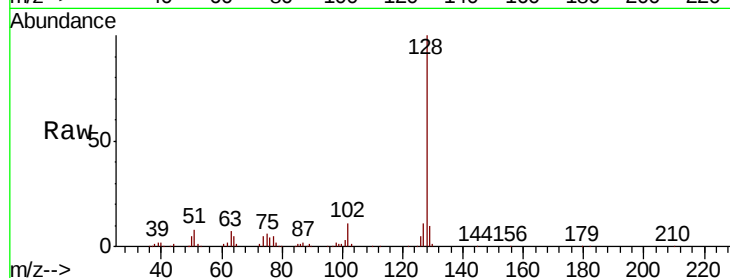
Tgt Ion:128 Resp: 332278

Ion Ratio Lower Upper

128 100

127 11.5 10.6 16.0

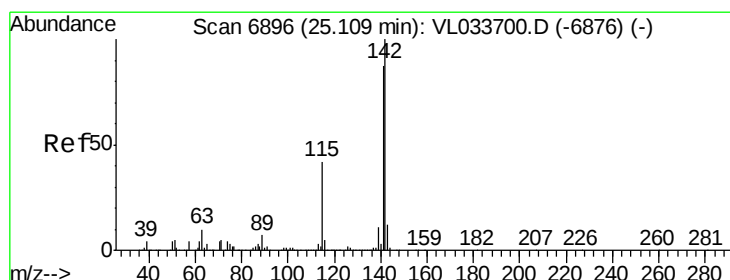
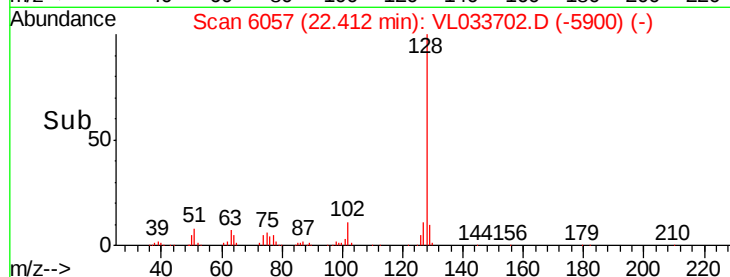
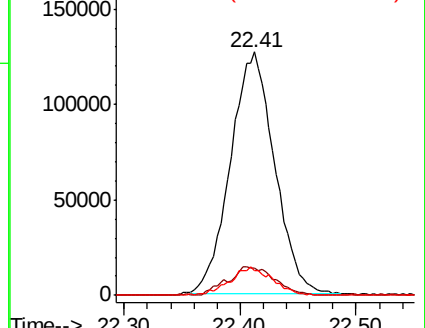
129 10.0 8.9 13.3



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.776 ppbv

RT: 25.11 min Scan# 6897

Delta R.T. 0.00 min

Lab File: VL033702.D

Acq: 17 May 2019 3:18

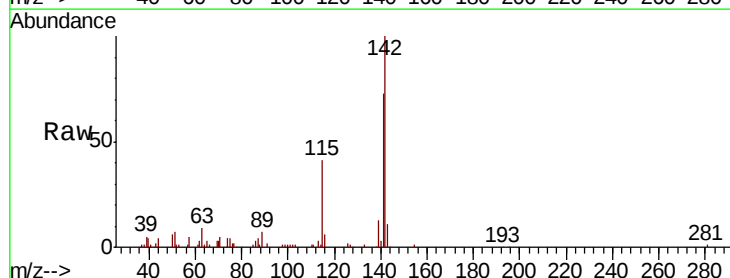
Tgt Ion:142 Resp: 106835

Ion Ratio Lower Upper

142 100

141 87.5 67.2 100.8

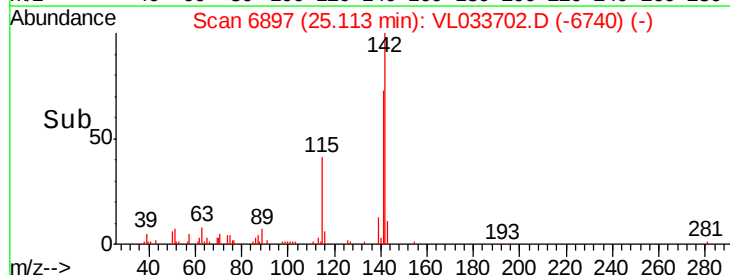
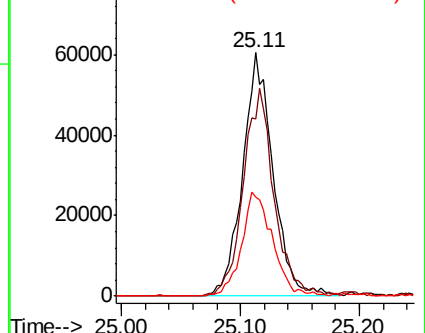
115 43.6 34.1 51.1

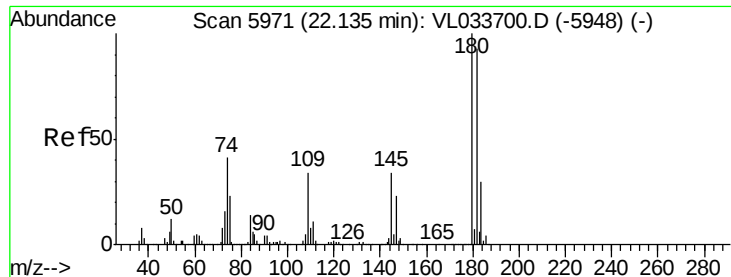


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 0.974 ppbv
 RT: 22.13 min Scan# 5970
 Delta R.T. -0.00 min
 Lab File: VL033702.D
 Acq: 17 May 2019 3:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion	Resp	Lower	Upper
180	100		
182	96.6	76.1	114.1
184	29.7	24.6	37.0

