

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120718\
 Data File : VL032923.D
 Acq On : 7 Dec 2018 5:34
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Quant Time: Dec 07 07:13:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 07 05:41:55 2018
 QLast Update : Fri Dec 07 05:41:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1293461	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3128968	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2911653	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2185805	10.28	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.80%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.08	85	92705	0.523	ppbv	99
3) Chlorodifluoromethane	3.02	51	49729	0.493	ppbv	98
4) Chloromethane	3.17	50	32833	0.552	ppbv #	83
5) Vinyl Chloride	3.30	62	26560	0.456	ppbv	94
6) Bromomethane	3.52	94	18341	0.486	ppbv	100
7) Chloroethane	3.61	64	11007	0.488	ppbv #	85
8) Dichlorotetrafluoroethane	3.22	85	75519	0.523	ppbv	97
9) Propene	3.04	41	18537	0.459	ppbv	97
10) Heptane	8.25	43	30149	0.196	ppbv #	26
11) Trichlorofluoromethane	4.01	101	87499	0.498	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.56	101	43743	0.328	ppbv #	12
13) Ethanol	3.66	45	4405	0.322	ppbv #	39
14) Bromoethene	3.80	108	22898	0.469	ppbv	96
15) Acetone	3.92	43	60754	0.526	ppbv	93
16) 1,3-Butadiene	3.37	39	14210	0.308	ppbv #	44
18) 1,1-Dichloroethene	4.36	96	31038	0.535	ppbv	92
19) Isopropyl Alcohol	4.05	45	36665	0.439	ppbv #	94
20) Methylene Chloride	4.42	84	34561	0.533	ppbv	93
21) Allyl Chloride	4.49	41	25556	0.300	ppbv #	39
22) trans-1,2-Dichloroethene	4.97	96	16880	0.241	ppbv	97
23) Vinyl Acetate	5.16	43	74945	0.344	ppbv #	96
24) 1,1-Dichloroethane	5.10	63	85975	0.513	ppbv	96
25) Ethyl Acetate	5.78	43	130711	0.480	ppbv	99
26) Hexane	5.78	57	59948	0.469	ppbv	94
27) Carbon Disulfide	4.63	76	74253	0.459	ppbv #	85
28) Methyl tert-Butyl Ether	5.13	73	78386	0.383	ppbv	97
29) Chloroform	5.85	83	112608	0.530	ppbv	96
30) Cyclohexane	7.25	84	21663	0.207	ppbv #	32
31) cis-1,2-Dichloroethene	5.65	61	47291	0.406	ppbv	93
32) 1,1,1-Trichloroethane	6.62	97	103811	0.437	ppbv	98
34) 2-Butanone	5.35	43	64546	0.417	ppbv	98
35) Carbon Tetrachloride	7.14	117	113009	0.486	ppbv	94
36) Benzene	7.01	78	59775	0.244	ppbv	99
37) 1,2-Dichloroethane	6.42	62	78857	0.500	ppbv	97
38) Trichloroethene	7.96	130	43277	0.443	ppbv #	87
39) 1,2-Dichloropropane	7.74	63	33240	0.370	ppbv	89
40) 1,4-Dioxane	8.00	88	3483	0.103	ppbv #	1
41) Tetrahydrofuran	6.18	42	19151	0.217	ppbv #	58
42) Bromodichloromethane	7.92	83	106783	0.487	ppbv #	98
43) Methyl Methacrylate	8.15	69	33931	0.375	ppbv	96
44) 2,2,4-Trimethylpentane	8.00	57	172906	0.432	ppbv	96

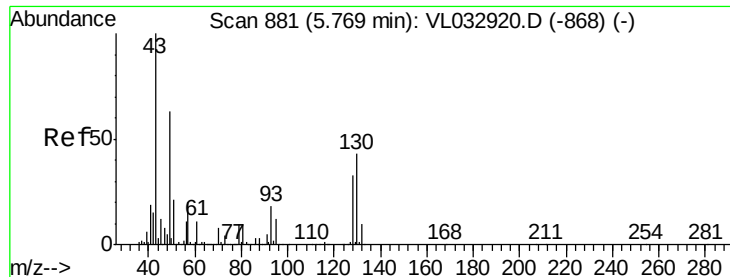
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120718\
 Data File : VL032923.D
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Instrument :
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 ClientSampleId :
 VSTDICC0.5

Quant Time: Dec 07 07:13:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 07 05:41:55 2018
 QLast Update : Fri Dec 07 05:41:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) t-1,3-Dichloropropene	9.42	75	16349	0.137	ppbv	90
46) cis-1,3-Dichloropropene	8.84	75	42811	0.317	ppbv	95
47) 1,1,2-Trichloroethane	9.61	97	47315	0.446	ppbv	91
48) Dibromochloromethane	10.45	129	49143	0.251	ppbv #	10
49) Bromoform	13.21	173	22984	0.140	ppbv #	1
50) 4-Methyl-2-Pentanone	8.90	43	88931	0.393	ppbv	97
51) 2-Hexanone	10.31	43	49978	0.298	ppbv #	94
52) Tetrachloroethene	11.38	164	23307	0.254	ppbv #	86
53) Toluene	9.95	91	89633	0.323	ppbv	100
54) 1,2-Dibromoethane	10.76	107	62638	0.395	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.28	131	70975	0.540	ppbv #	1
57) Chlorobenzene	12.30	112	114275	0.526	ppbv #	90
58) Ethyl Benzene	12.88	91	117284	0.353	ppbv	97
59) m/p-Xylene	13.15	91	48200	0.161	ppbv #	100
60) o-Xylene	13.86	91	121283	0.414	ppbv	99
61) Styrene	13.69	104	31475	0.161	ppbv #	27
62) Isopropylbenzene	14.83	105	176655	0.425	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.84	83	55367	0.251	ppbv #	27
64) n-propylbenzene	15.73	120	23483	0.224	ppbv #	1
65) tert-Butylbenzene	16.92	119	156687	0.440	ppbv	91
66) Benzyl Chloride	17.16	91	41229	0.218	ppbv #	66
67) sec-Butylbenzene	17.47	105	237818	0.471	ppbv	99
69) p-Isopropyltoluene	17.83	119	173547	0.432	ppbv	96
70) n-Butylbenzene	18.72	91	165012	0.418	ppbv	97
71) 2-Chlorotoluene	15.62	91	116719	0.389	ppbv	100
72) 4-Ethyltoluene	16.01	105	111889	0.362	ppbv #	93
73) 1,3,5-Trimethylbenzene	16.17	105	124568	0.419	ppbv	95
74) 1,2,4-Trimethylbenzene	16.93	105	164747	0.509	ppbv	93
75) 1,3-Dichlorobenzene	17.17	146	97941	0.517	ppbv	93
76) 1,4-Dichlorobenzene	17.32	146	85909	0.484	ppbv	97
77) 1,2-Dichlorobenzene	18.00	146	88223	0.494	ppbv	97
78) Hexachloro-1,3-Butadiene	23.55	225	57654	0.511	ppbv	96
79) Naphthalene	22.42	128	48398	0.253	ppbv	98
80) Naphthalene,2-methyl-	25.12	142	10990	0.257	ppbv	95
81) 1,2,4-Trichlorobenzene	22.14	180	19050	0.189	ppbv #	12

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL032923.D

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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

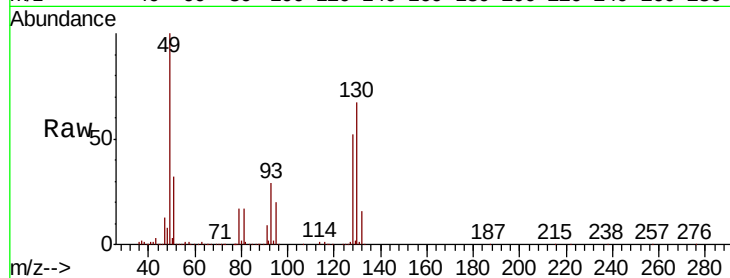
Tgt Ion: 49 Resp: 1293461

Ion Ratio Lower Upper

49 100

128 51.7 26.3 78.8

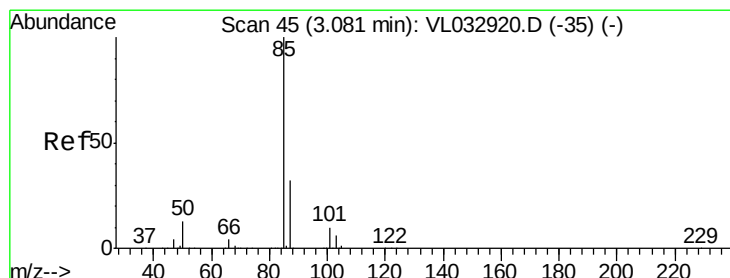
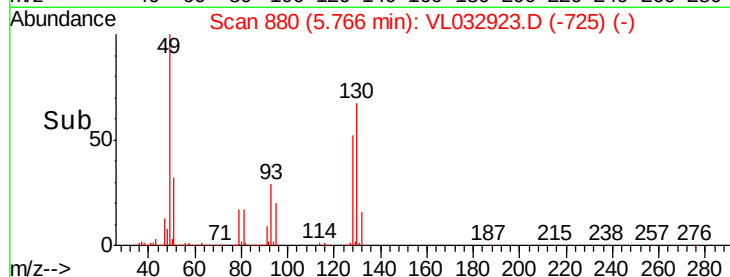
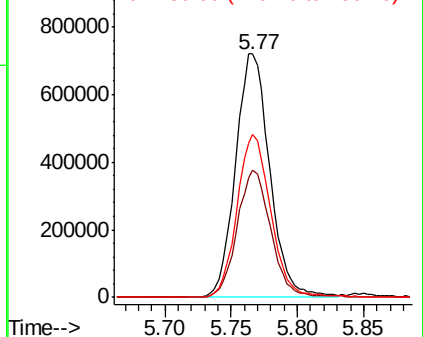
130 66.6 33.9 101.7



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: 0.523 ppbv

RT: 3.08 min Scan# 45

Delta R.T. 0.00 min

Lab File: VL032923.D

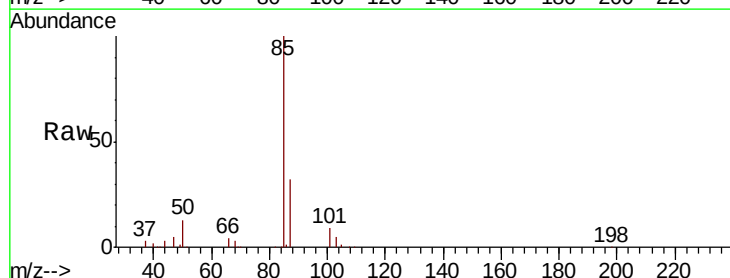
Acq: 7 Dec 2018 5:34

Tgt Ion: 85 Resp: 92705

Ion Ratio Lower Upper

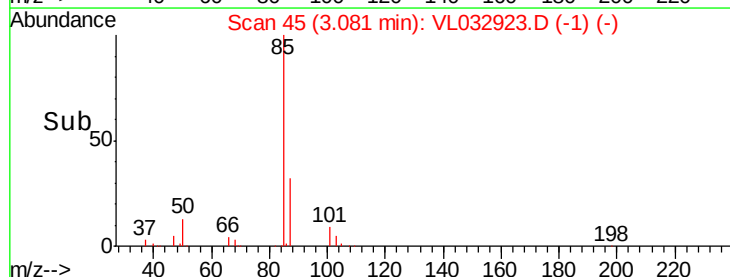
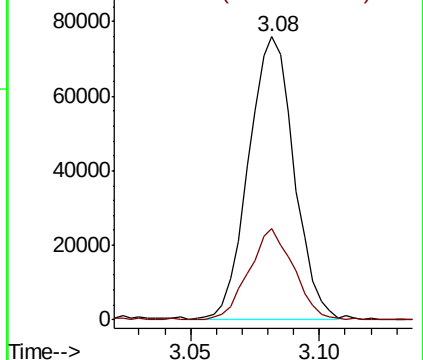
85 100

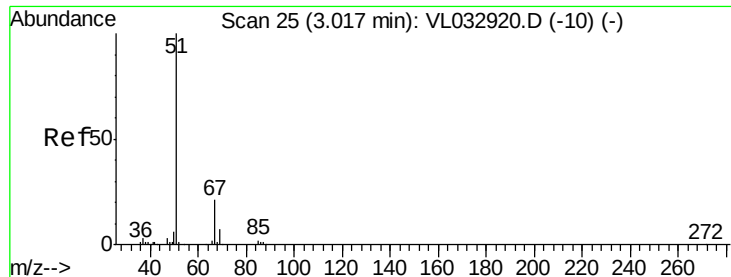
87 32.4 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.493 ppbv

RT: 3.02 min Scan# 26

Delta R.T. 0.00 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

Instrument :

MSVOA_L

ClientSampleId :

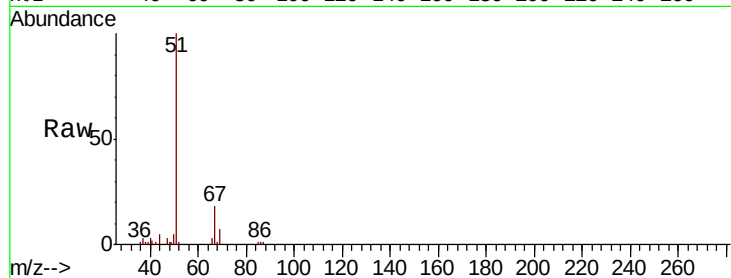
VSTDIC0.5

Tgt Ion: 51 Resp: 49729

Ion Ratio Lower Upper

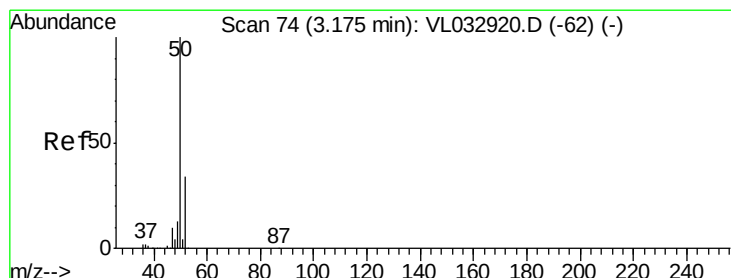
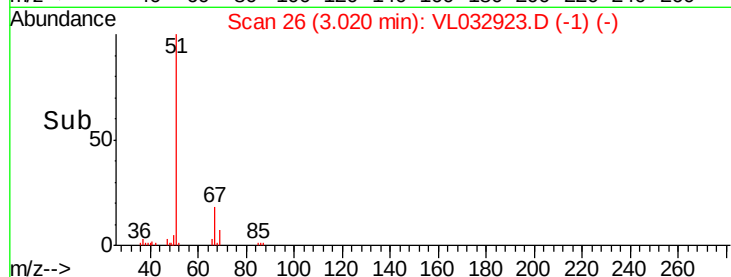
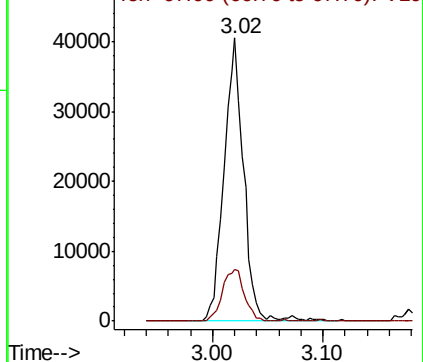
51 100

67 20.2 16.8 25.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.552 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL032923.D

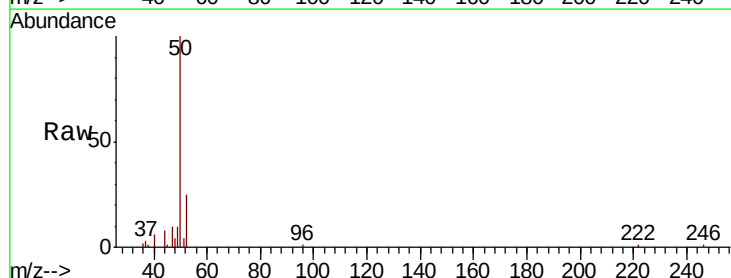
Acq: 7 Dec 2018 5:34

Tgt Ion: 50 Resp: 32833

Ion Ratio Lower Upper

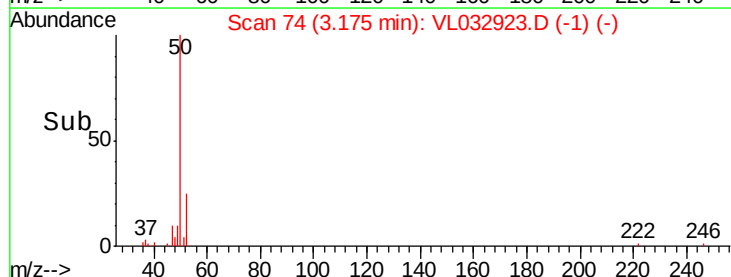
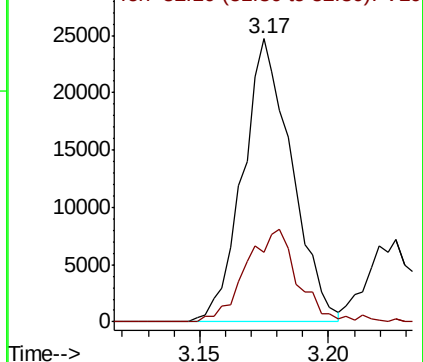
50 100

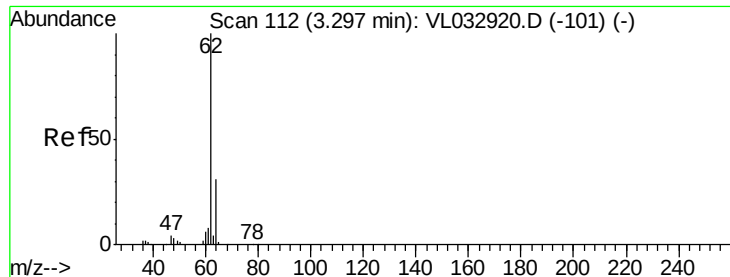
52 24.5 27.3 40.9#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.456 ppbv

RT: 3.30 min Scan# 113

Delta R.T. 0.00 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

Instrument :

MSVOA_L

ClientSampleId :

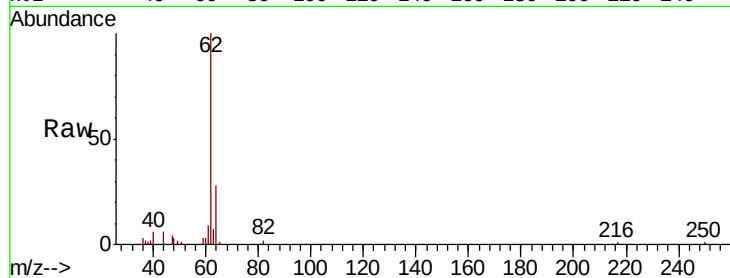
VSTDIC0.5

Tgt Ion: 62 Resp: 26560

Ion Ratio Lower Upper

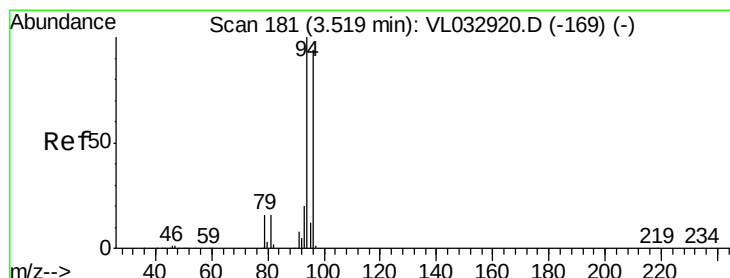
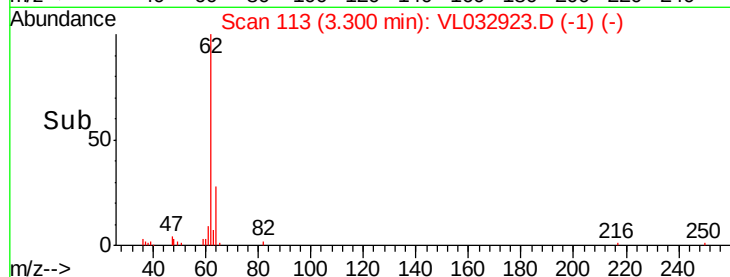
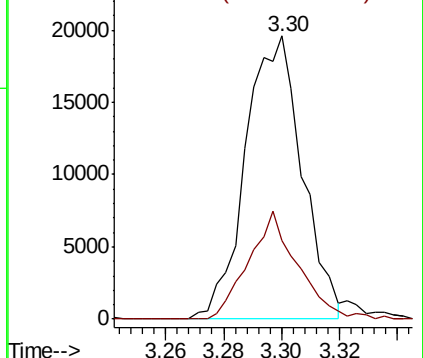
62 100

64 28.0 24.8 37.2



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.486 ppbv

RT: 3.52 min Scan# 181

Delta R.T. 0.00 min

Lab File: VL032923.D

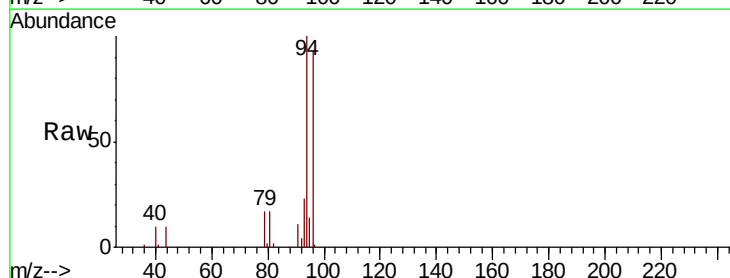
Acq: 7 Dec 2018 5:34

Tgt Ion: 94 Resp: 18341

Ion Ratio Lower Upper

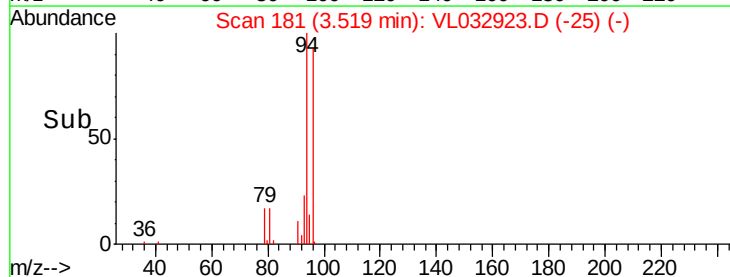
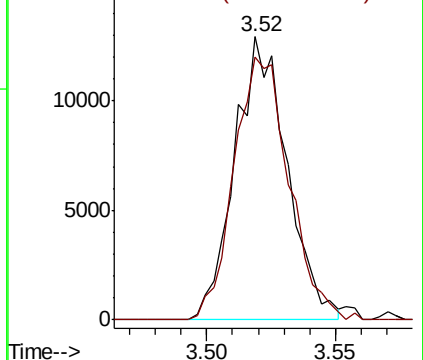
94 100

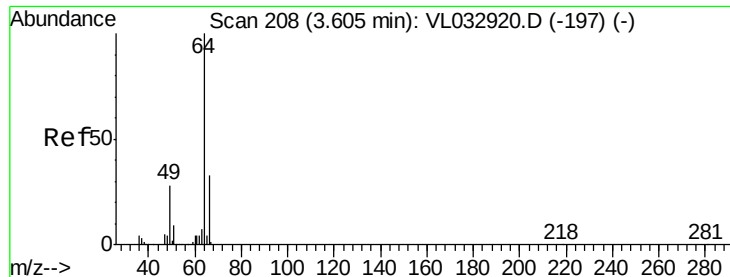
96 94.3 75.5 113.3



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.488 ppbv

RT: 3.61 min Scan# 208

Delta R.T. 0.00 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

Instrument :

MSVOA_L

ClientSampleId :

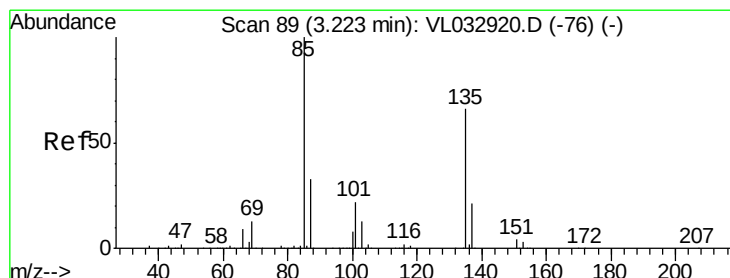
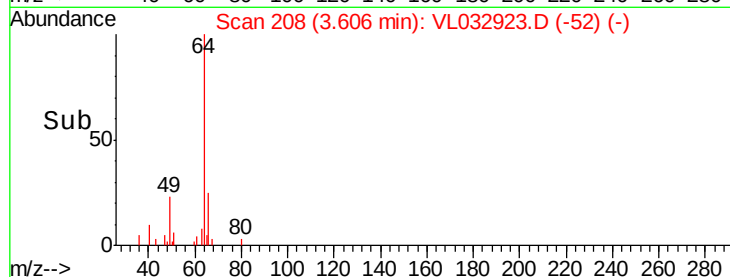
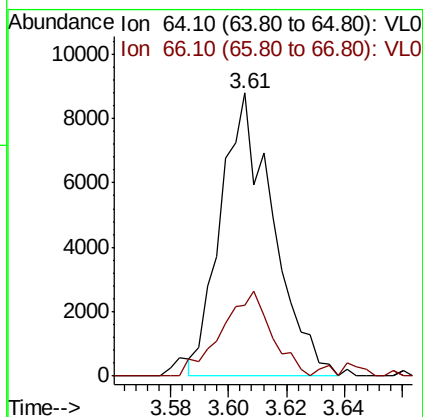
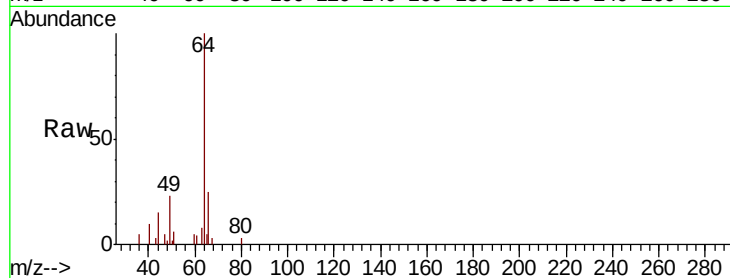
VSTDIC0.5

Tgt Ion: 64 Resp: 11007

Ion Ratio Lower Upper

64 100

66 25.1 26.6 40.0#



#8

Dichlorotetrafluoroethane

Concen: 0.523 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.00 min

Lab File: VL032923.D

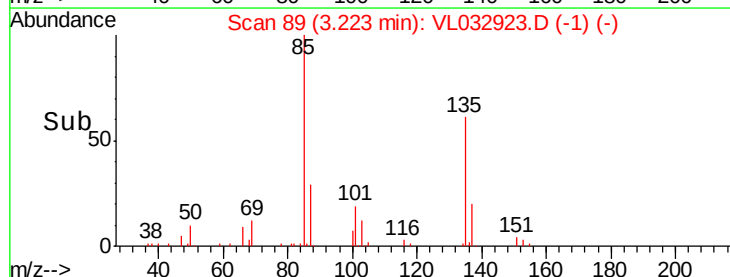
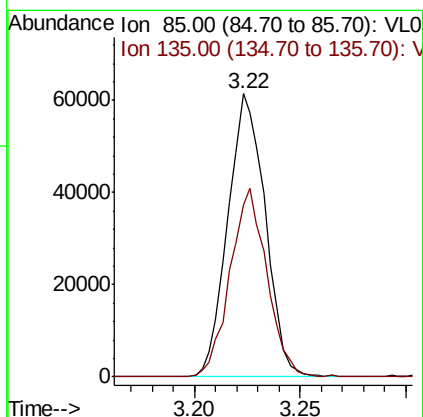
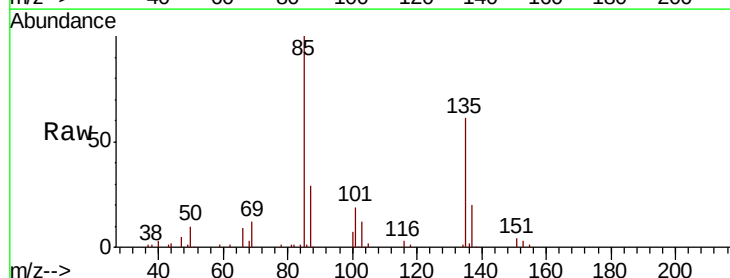
Acq: 7 Dec 2018 5:34

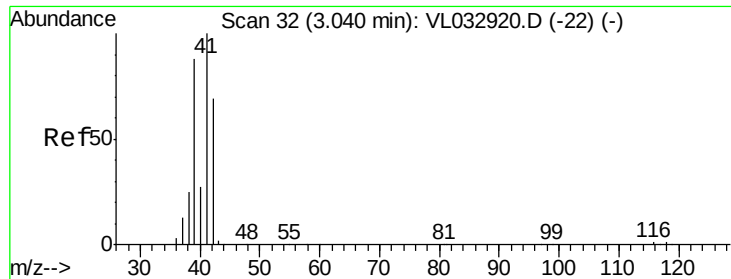
Tgt Ion: 85 Resp: 75519

Ion Ratio Lower Upper

85 100

135 65.5 54.5 81.7





#9

Propene

Concen: 0.459 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

Instrument :

MSVOA_L

ClientSampleId :

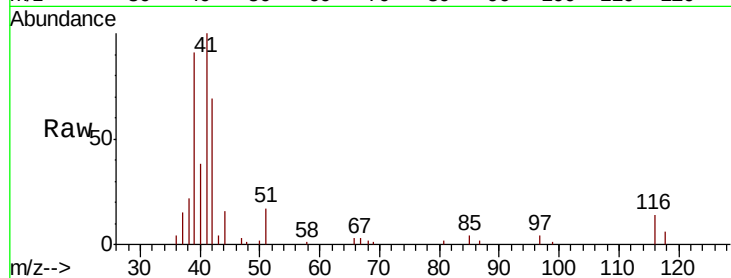
VSTDIC0.5

Tgt Ion: 41 Resp: 18537

Ion Ratio Lower Upper

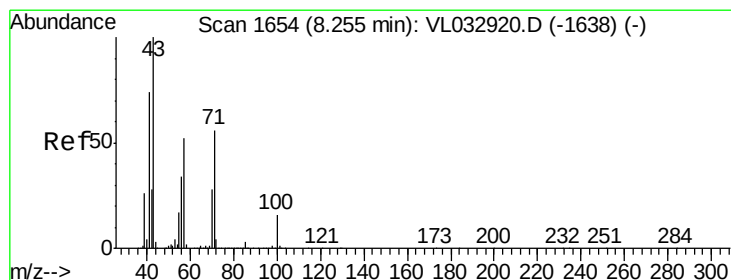
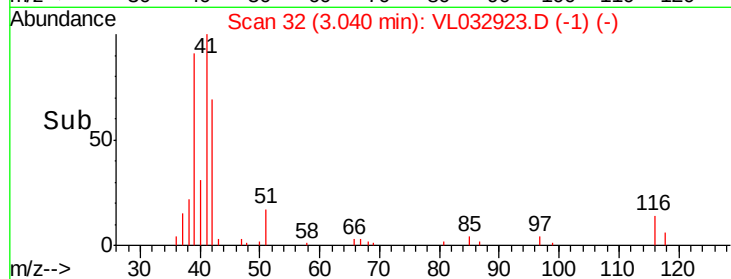
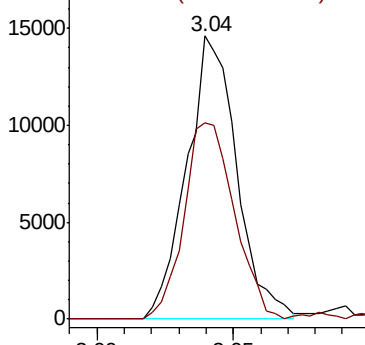
41 100

42 72.7 56.2 84.2



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.196 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. -0.01 min

Lab File: VL032923.D

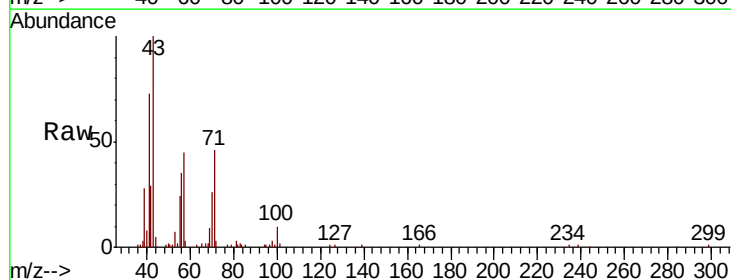
Acq: 7 Dec 2018 5:34

Tgt Ion: 43 Resp: 30149

Ion Ratio Lower Upper

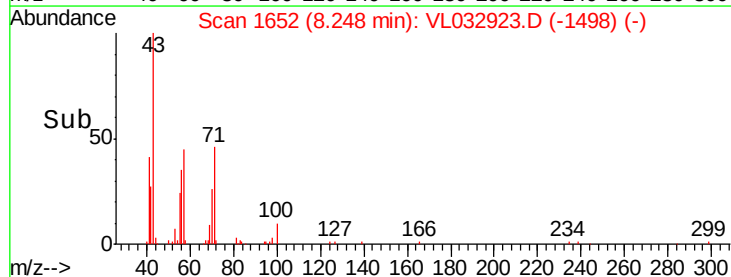
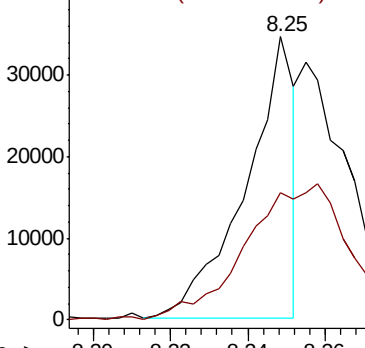
43 100

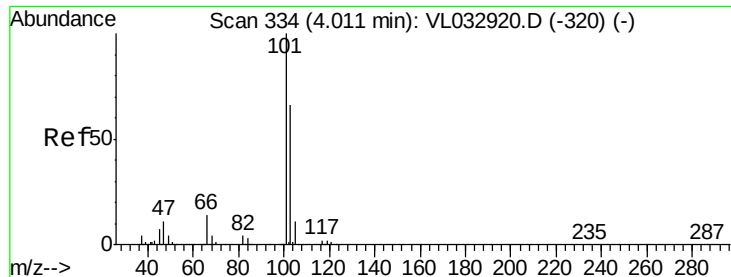
57 0.0 41.8 62.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

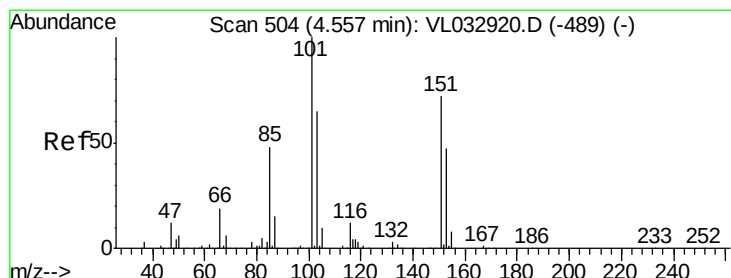
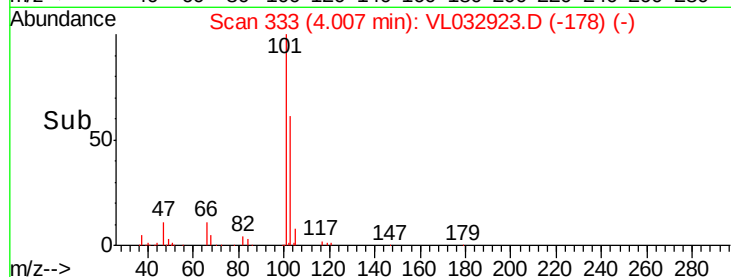
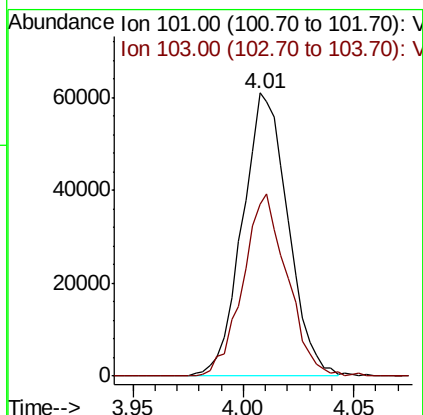
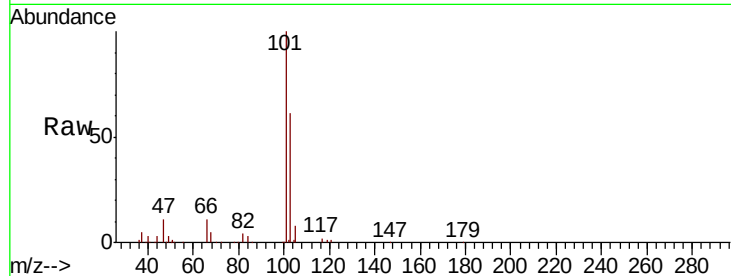




#11
 Trichlorofluoromethane
 Concen: 0.498 ppbv
 RT: 4.01 min Scan# 333
 Delta R.T. -0.00 min
 Lab File: VL032923.D
 Acq: 7 Dec 2018 5:34

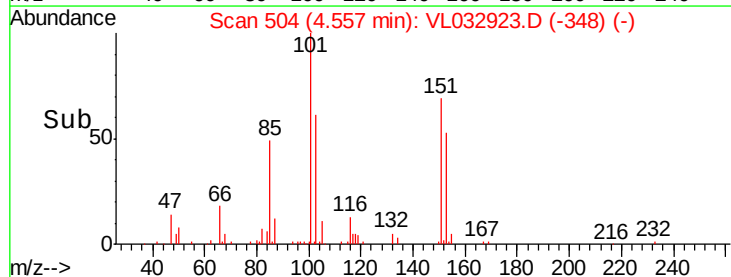
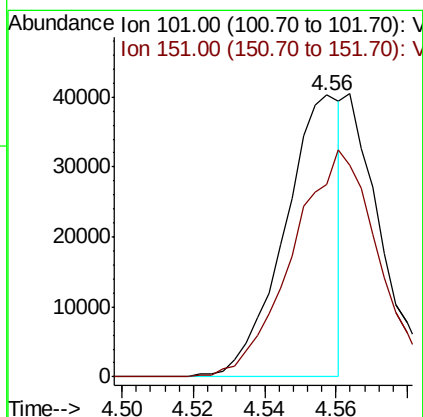
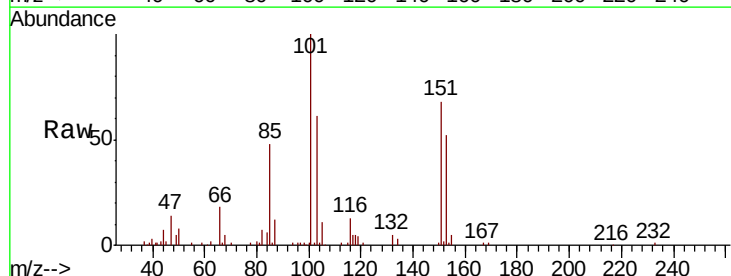
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

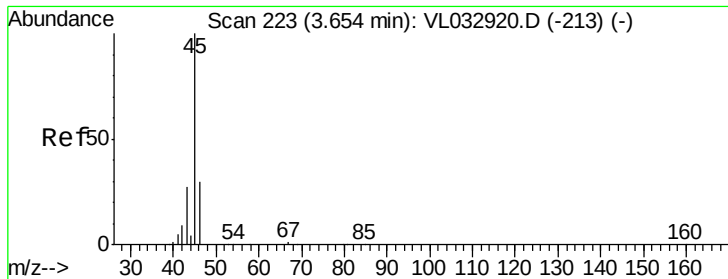
Tgt Ion:101 Resp: 87499
 Ion Ratio Lower Upper
 101 100
 103 60.6 52.7 79.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.328 ppbv
 RT: 4.56 min Scan# 504
 Delta R.T. 0.00 min
 Lab File: VL032923.D
 Acq: 7 Dec 2018 5:34

Tgt Ion:101 Resp: 43743
 Ion Ratio Lower Upper
 101 100
 151 0.0 59.3 88.9#





#13

Ethanol

Concen: 0.322 ppbv

RT: 3.66 min Scan# 226

Delta R.T. 0.01 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

Instrument :

MSVOA_L

ClientSampleId :

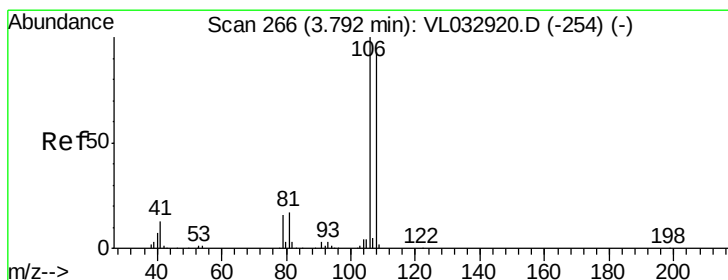
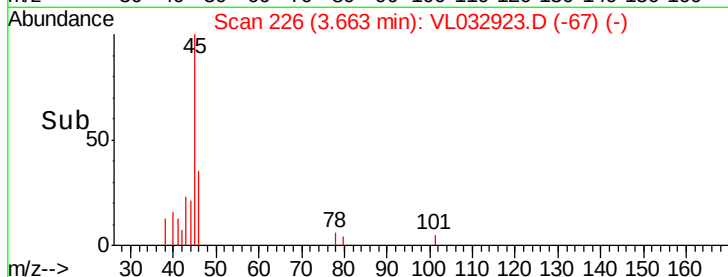
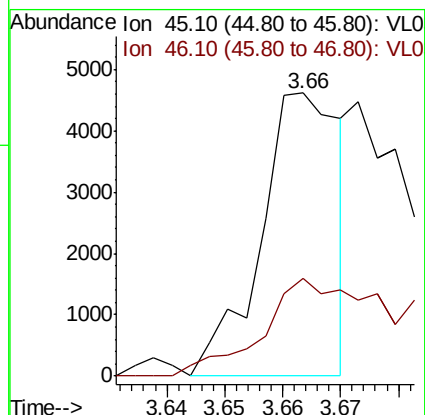
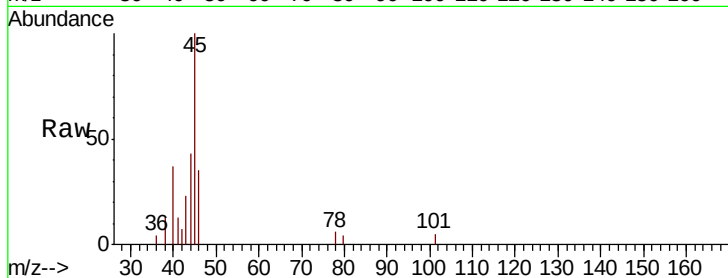
VSTDIC0.5

Tgt Ion: 45 Resp: 4405

Ion Ratio Lower Upper

45 100

46 69.9 13.8 55.4#



#14

Bromoethene

Concen: 0.469 ppbv

RT: 3.80 min Scan# 267

Delta R.T. 0.00 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

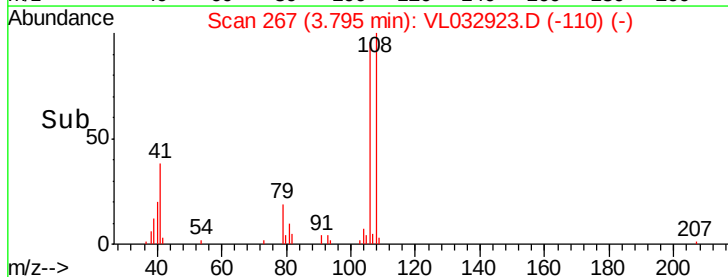
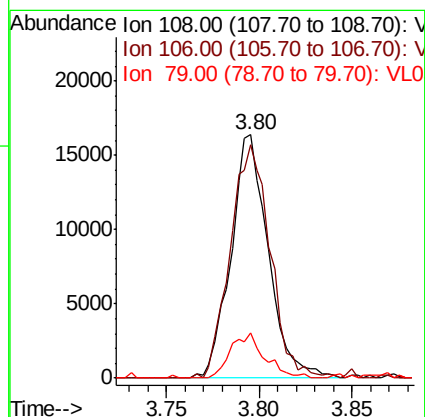
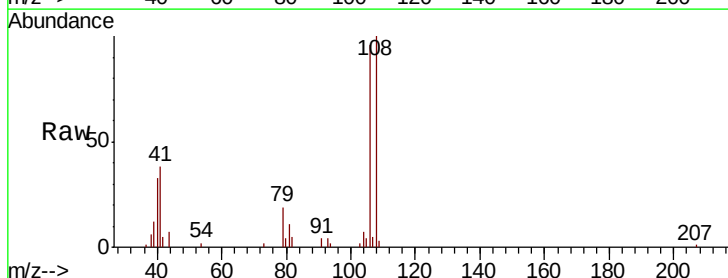
Tgt Ion: 108 Resp: 22898

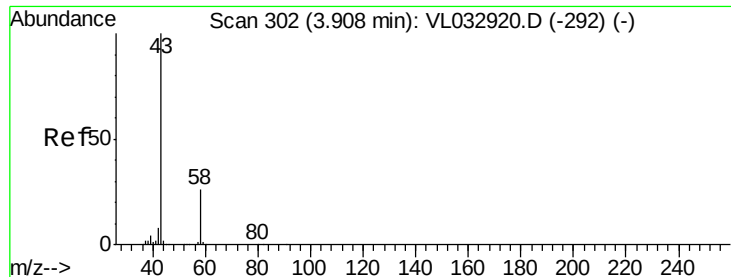
Ion Ratio Lower Upper

108 100

106 102.2 85.4 128.2

79 17.1 14.6 21.8





#15

Acetone

Concen: 0.526 ppbv

RT: 3.92 min Scan# 306

Delta R.T. 0.01 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

Instrument :

MSVOA_L

ClientSampleId :

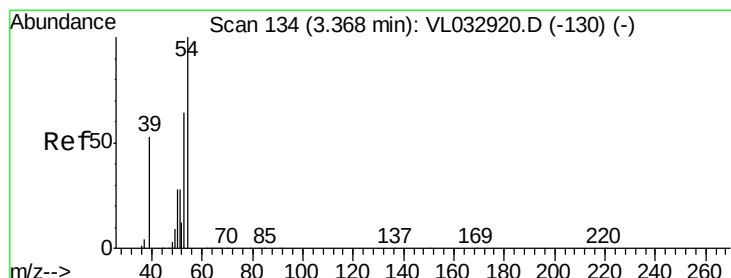
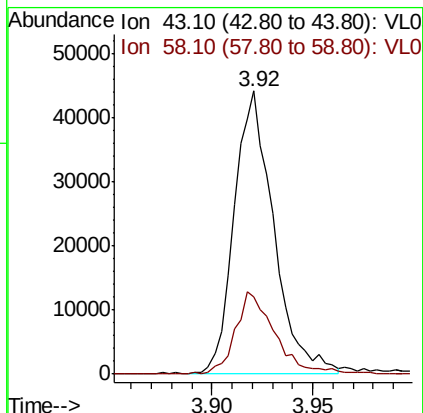
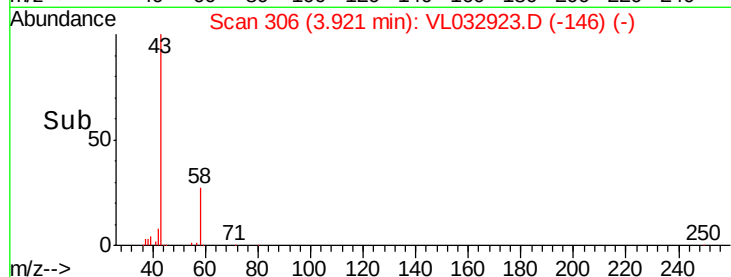
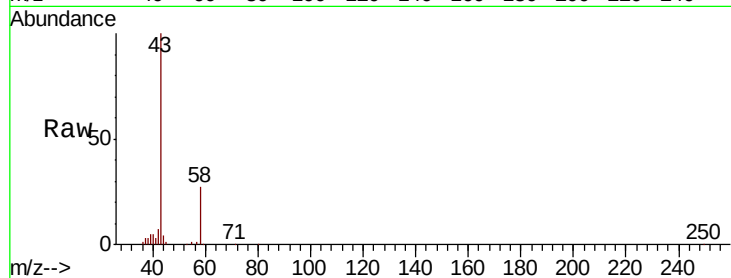
VSTDIC0.5

Tgt Ion: 43 Resp: 60754

Ion Ratio Lower Upper

43 100

58 29.1 20.6 30.8



#16

1,3-Butadiene

Concen: 0.308 ppbv

RT: 3.37 min Scan# 135

Delta R.T. 0.00 min

Lab File: VL032923.D

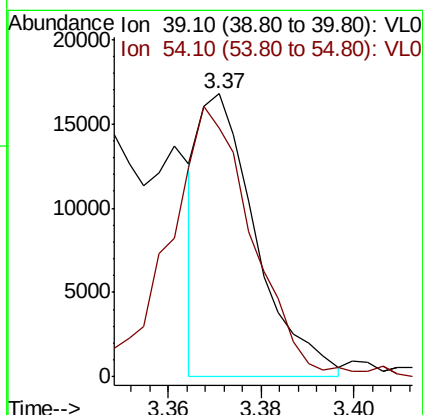
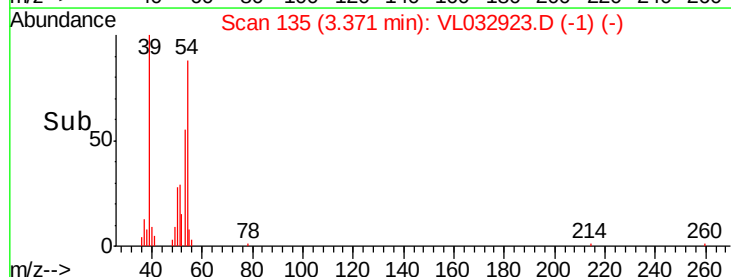
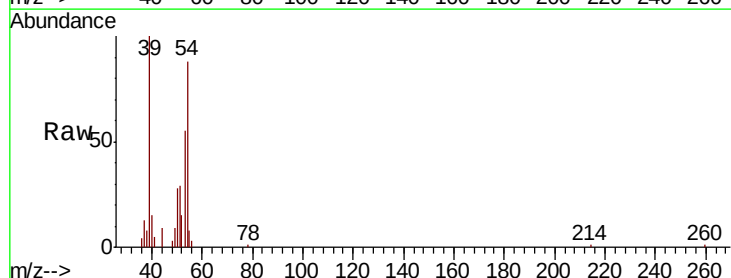
Acq: 7 Dec 2018 5:34

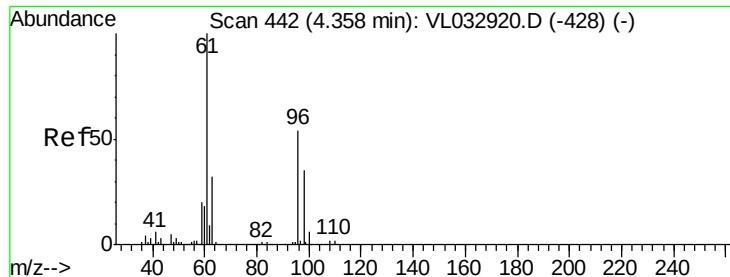
Tgt Ion: 39 Resp: 14210

Ion Ratio Lower Upper

39 100

54 144.2 72.7 109.1#

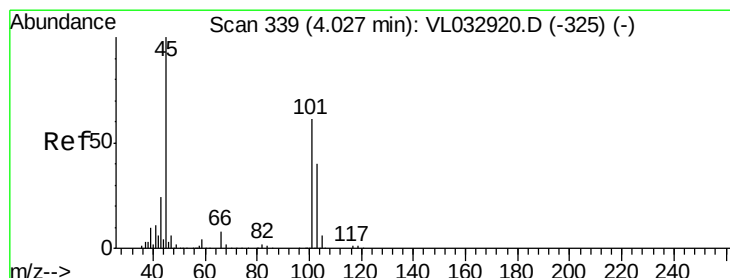
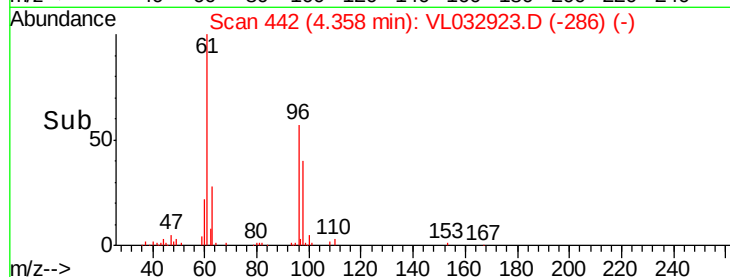
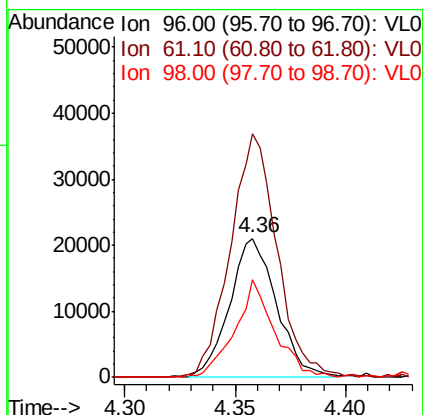
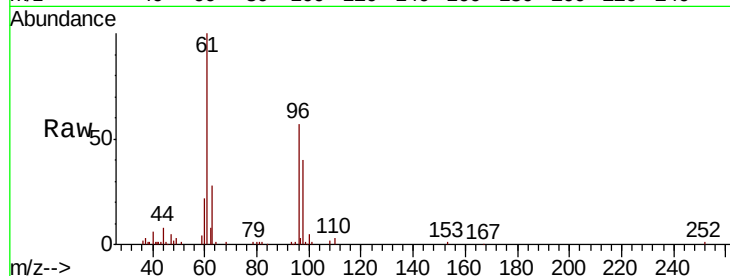




#18
 1,1-Dichloroethene
 Concen: 0.535 ppbv
 RT: 4.36 min Scan# 442
 Delta R.T. 0.00 min
 Lab File: VL032923.D
 Acq: 7 Dec 2018 5:34

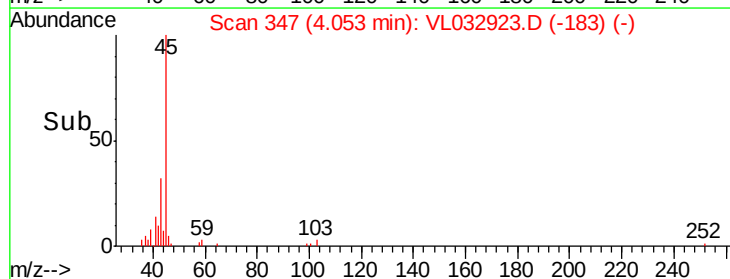
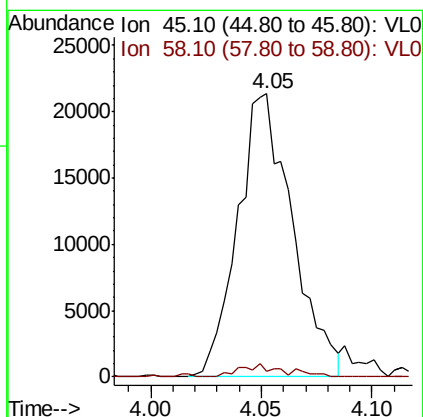
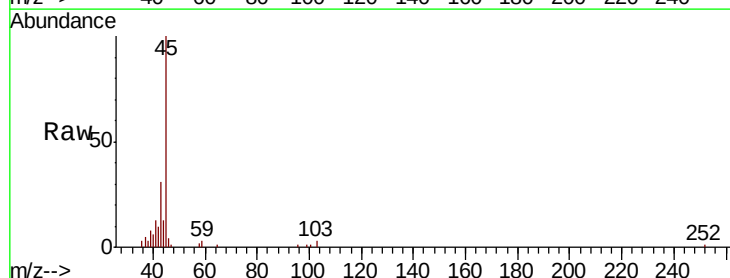
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

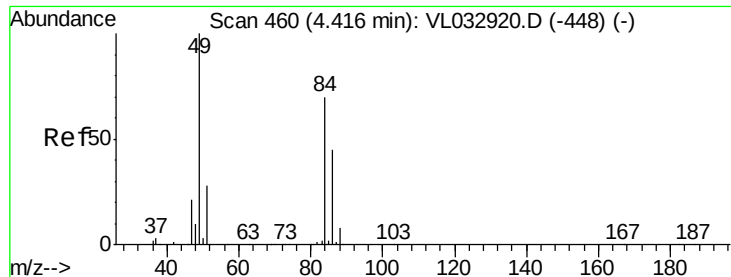
Tgt Ion: 96 Resp: 31038
 Ion Ratio Lower Upper
 96 100
 61 173.3 147.0 220.4
 98 70.0 50.7 76.1



#19
 Isopropyl Alcohol
 Concen: 0.439 ppbv
 RT: 4.05 min Scan# 347
 Delta R.T. 0.03 min
 Lab File: VL032923.D
 Acq: 7 Dec 2018 5:34

Tgt Ion: 45 Resp: 36665
 Ion Ratio Lower Upper
 45 100
 58 3.9 1.4 2.2#

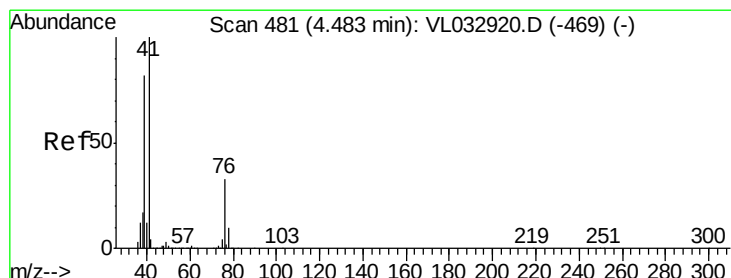
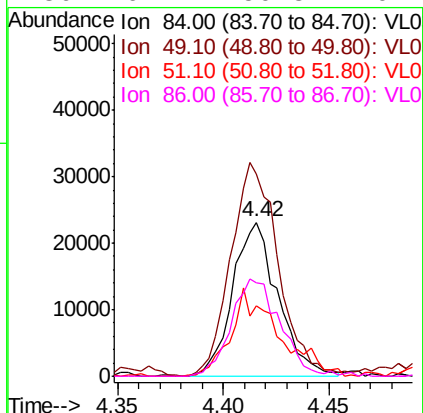
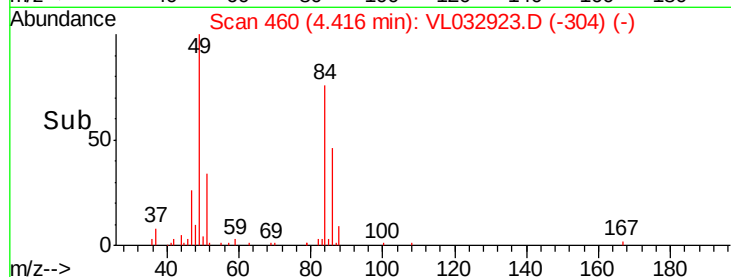
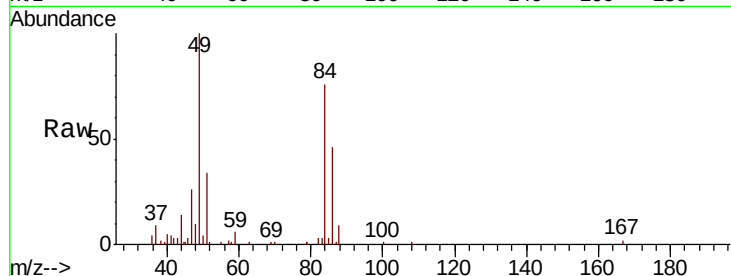




#20
Methylene Chloride
Concen: 0.533 ppbv
RT: 4.42 min Scan# 460
Delta R.T. 0.00 min
Lab File: VL032923.D
Acq: 7 Dec 2018 5:34

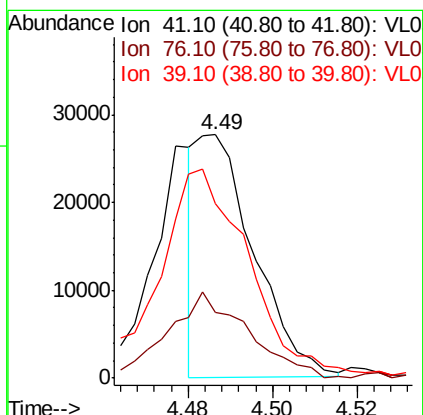
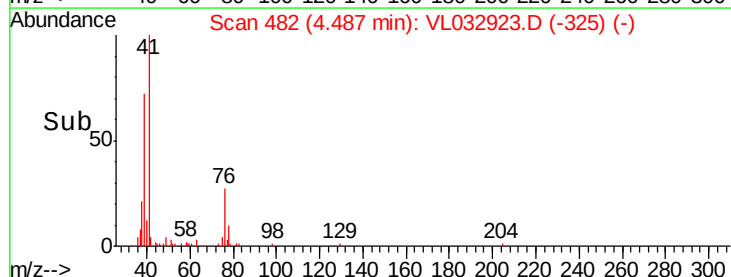
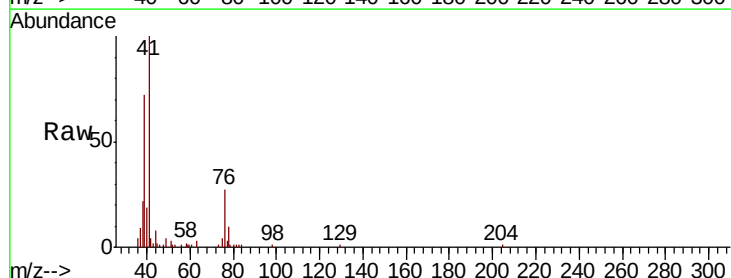
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

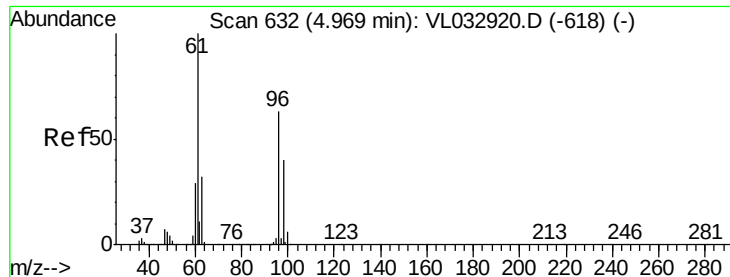
Tgt Ion:	84	Resp:	34561
Ion	Ratio	Lower	Upper
84	100		
49	131.9	113.8	170.8
51	44.2	31.8	47.8
86	61.2	50.8	76.2



#21
Allyl Chloride
Concen: 0.300 ppbv
RT: 4.49 min Scan# 482
Delta R.T. 0.00 min
Lab File: VL032923.D
Acq: 7 Dec 2018 5:34

Tgt Ion:	41	Resp:	25556
Ion	Ratio	Lower	Upper
41	100		
76	52.2	25.2	37.8#
39	143.5	65.2	97.8#





#22

trans-1,2-Dichloroethene

Concen: 0.241 ppbv

RT: 4.97 min Scan# 631

Delta R.T. -0.00 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

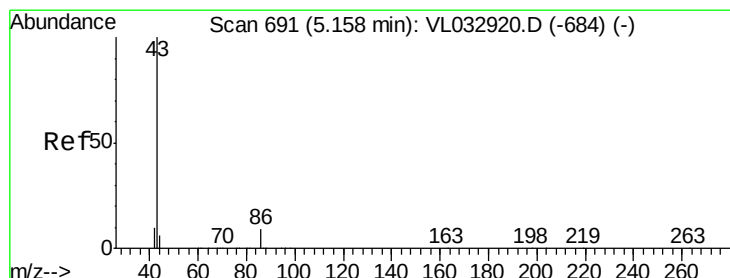
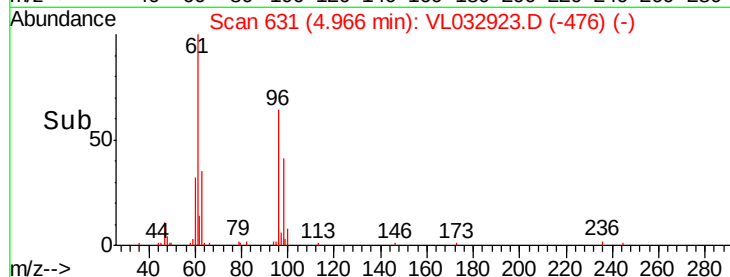
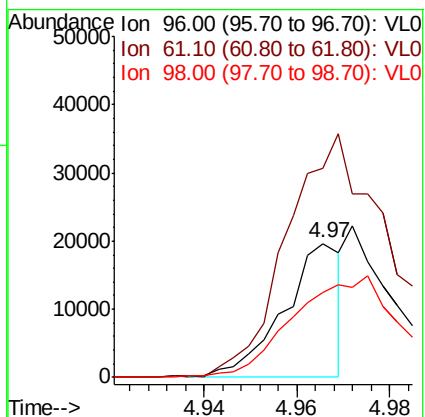
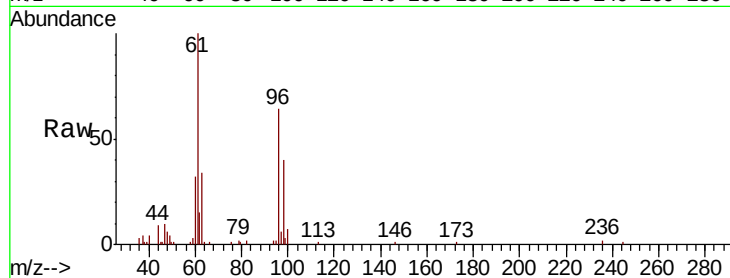
Tgt Ion: 96 Resp: 16880

Ion Ratio Lower Upper

96 100

61 154.4 127.1 190.7

98 62.0 51.3 76.9



#23

Vinyl Acetate

Concen: 0.344 ppbv

RT: 5.16 min Scan# 692

Delta R.T. 0.00 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

Tgt Ion: 43 Resp: 74945

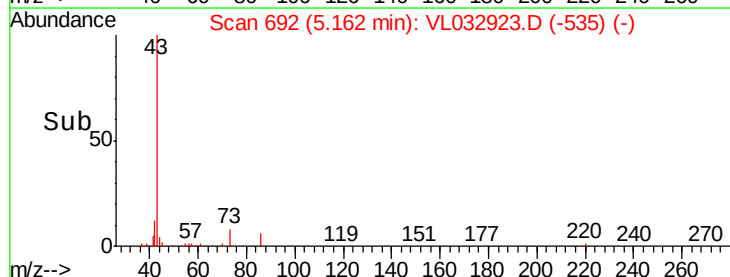
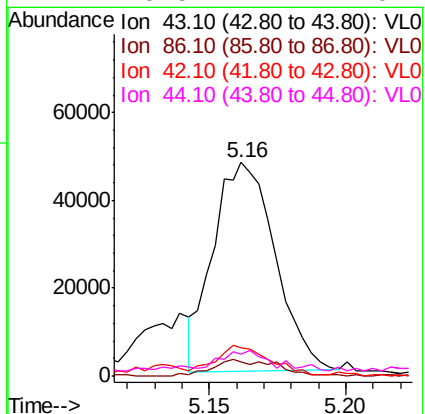
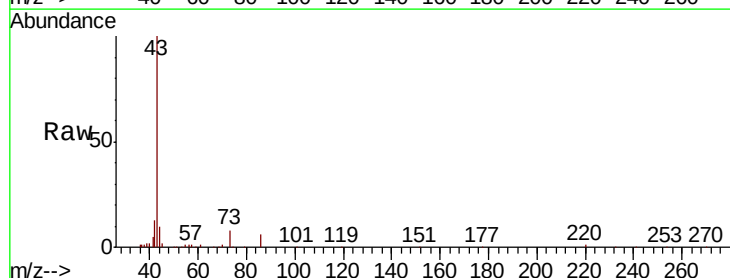
Ion Ratio Lower Upper

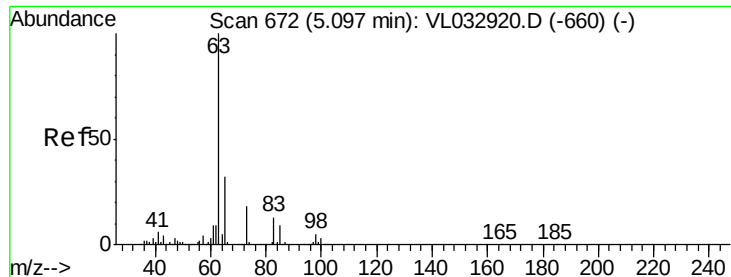
43 100

86 6.2 6.6 9.8#

42 11.6 8.3 12.5

44 6.5 4.2 6.4#





#24

1,1-Dichloroethane

Concen: 0.513 ppbv

RT: 5.10 min Scan# 672

Delta R.T. 0.00 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

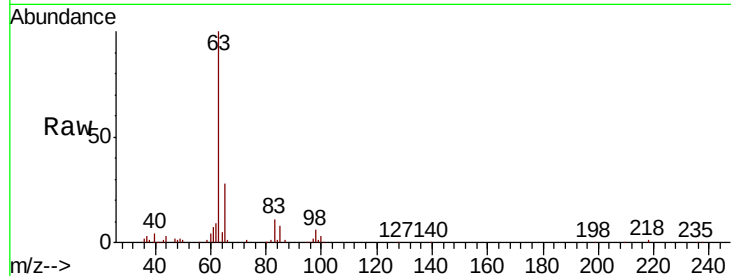
Tgt Ion: 63 Resp: 85975

Ion Ratio Lower Upper

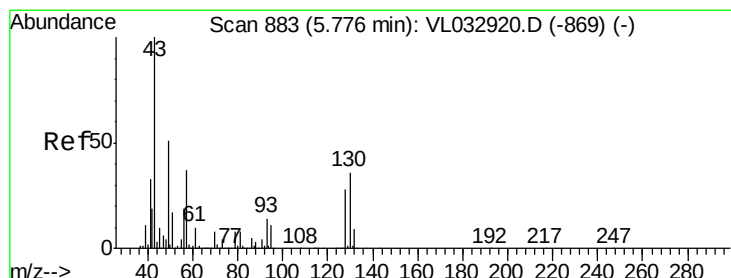
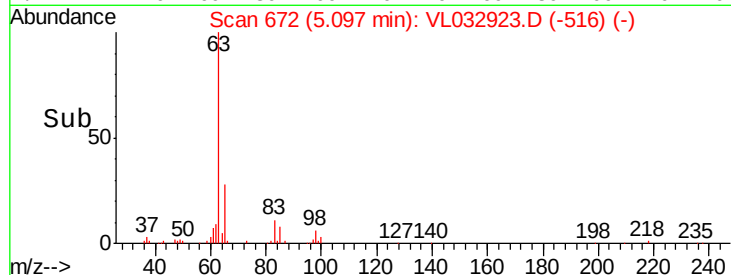
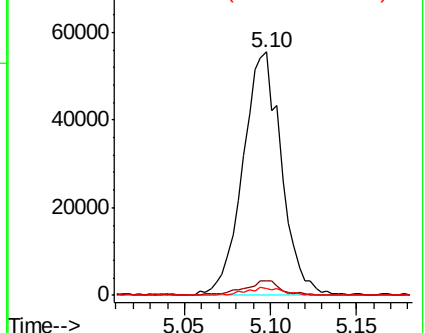
63 100

98 6.9 2.5 7.5

100 2.7 1.4 4.2



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: 0.480 ppbv

RT: 5.78 min Scan# 885

Delta R.T. 0.01 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

Tgt Ion: 43 Resp: 130711

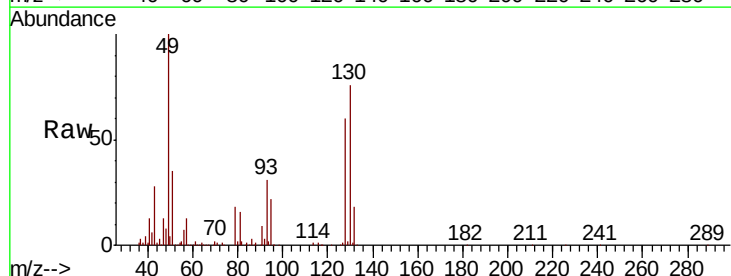
Ion Ratio Lower Upper

43 100

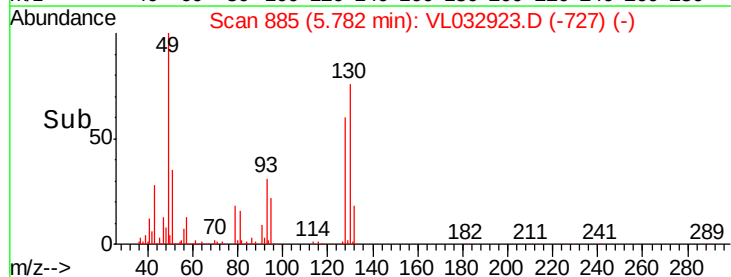
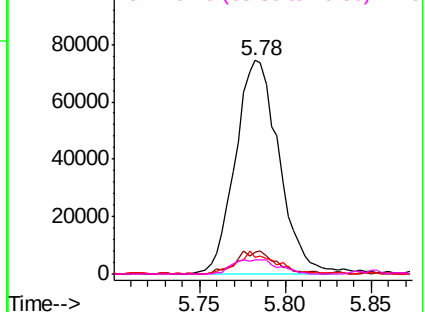
45 10.5 7.8 11.6

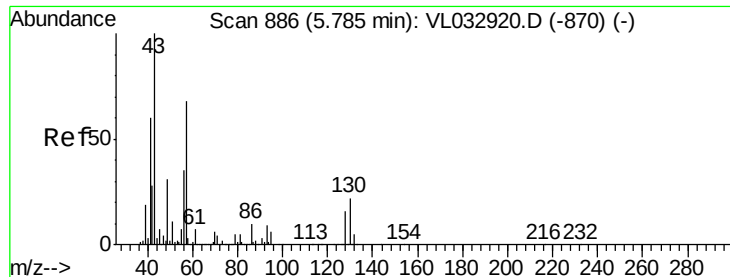
61 9.4 7.4 11.2

70 7.1 5.7 8.5



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

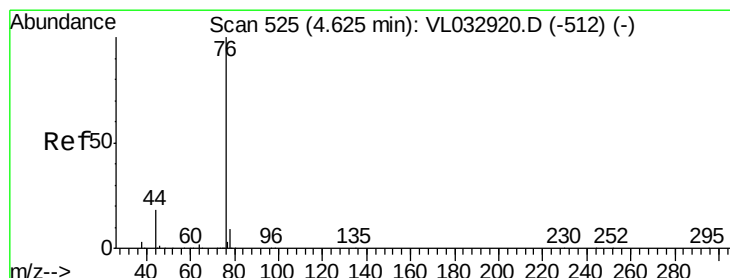
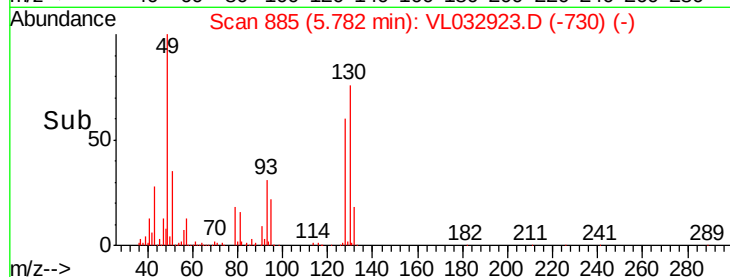
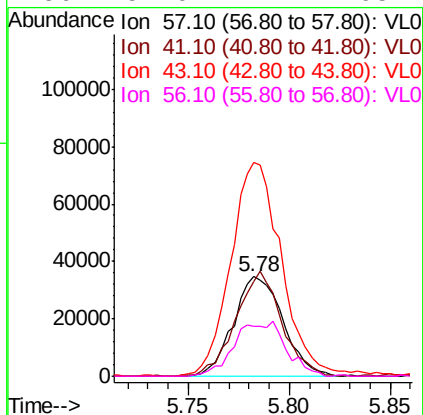
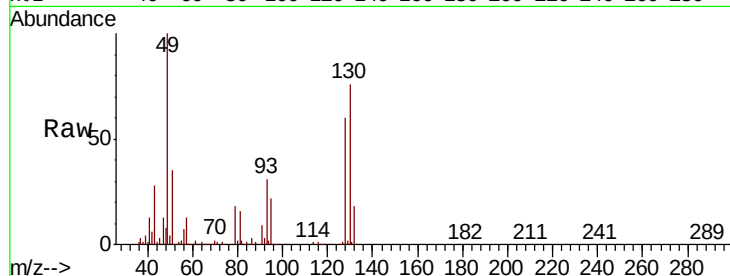




#26
Hexane
Concen: 0.469 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.00 min
Lab File: VL032923.D
Acq: 7 Dec 2018 5:34

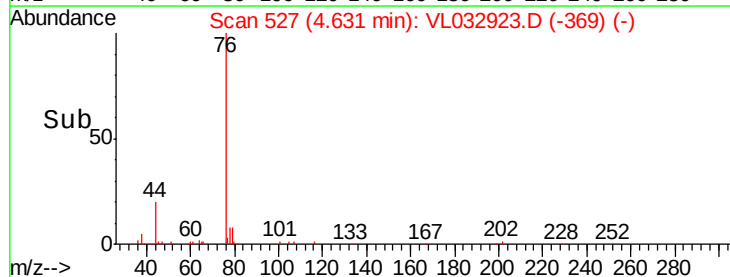
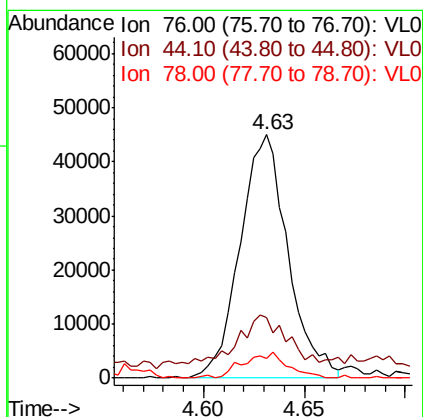
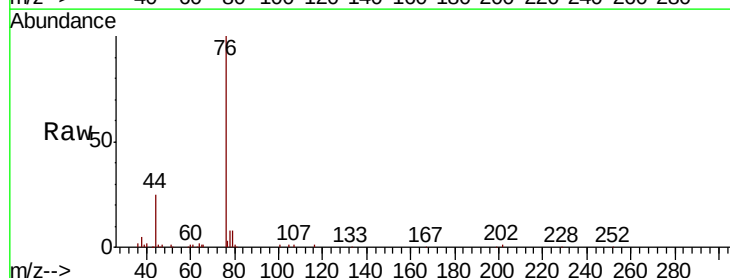
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

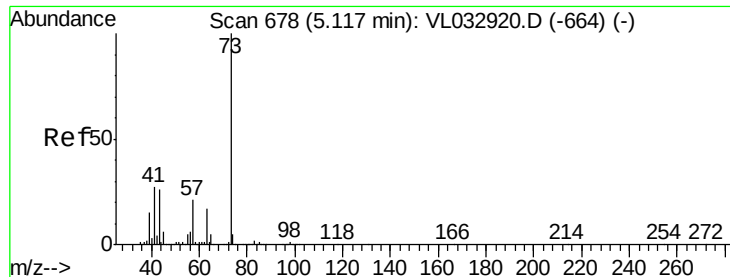
Tgt Ion: 57 Resp: 59948
Ion Ratio Lower Upper
57 100
41 97.6 72.2 108.2
43 221.8 171.9 257.9
56 57.0 42.2 63.2



#27
Carbon Disulfide
Concen: 0.459 ppbv
RT: 4.63 min Scan# 527
Delta R.T. 0.01 min
Lab File: VL032923.D
Acq: 7 Dec 2018 5:34

Tgt Ion: 76 Resp: 74253
Ion Ratio Lower Upper
76 100
44 27.7 14.7 22.1#
78 10.1 7.4 11.2





#28

Methyl tert-Butyl Ether

Concen: 0.383 ppbv

RT: 5.13 min Scan# 683

Delta R.T. 0.02 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

Instrument :

MSVOA_L

ClientSampleId :

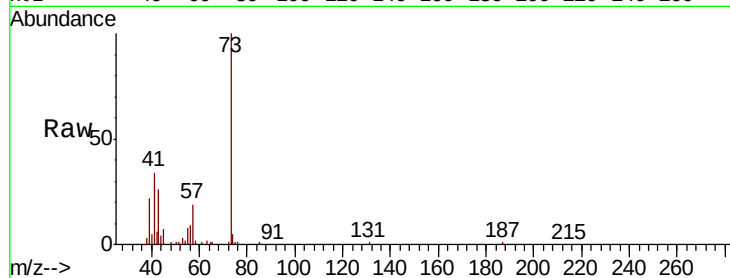
VSTDIC0.5

Tgt Ion: 73 Resp: 78386

Ion Ratio Lower Upper

73 100

57 20.5 17.4 26.0



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

5.13

40000

30000

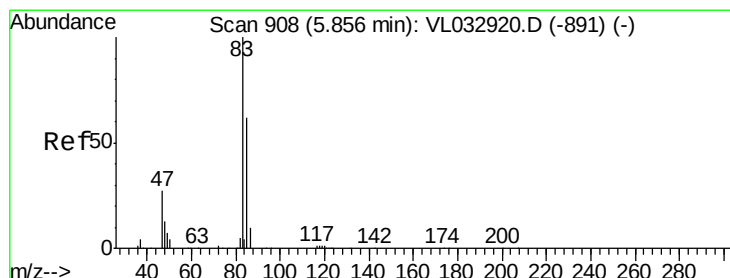
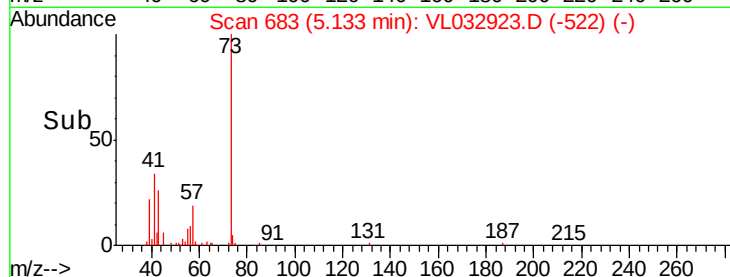
20000

10000

0

5.10 5.15 5.20

Time-->



#29

Chloroform

Concen: 0.530 ppbv

RT: 5.85 min Scan# 907

Delta R.T. -0.00 min

Lab File: VL032923.D

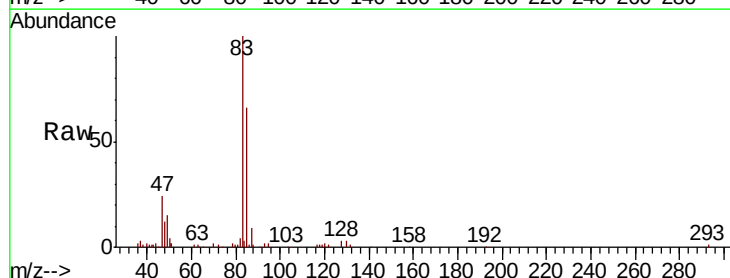
Acq: 7 Dec 2018 5:34

Tgt Ion: 83 Resp: 112608

Ion Ratio Lower Upper

83 100

85 65.6 49.8 74.8



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

5.85

60000

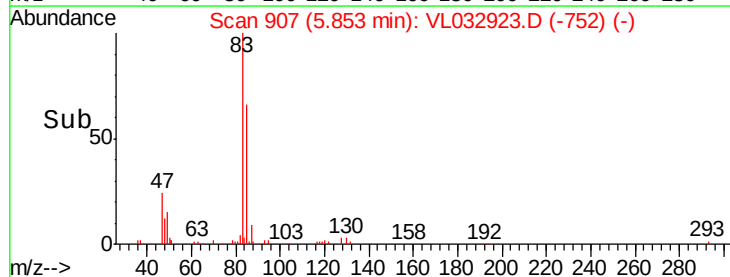
40000

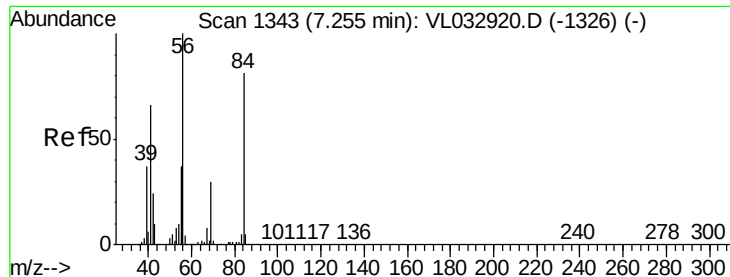
20000

0

5.80 5.85 5.90

Time-->

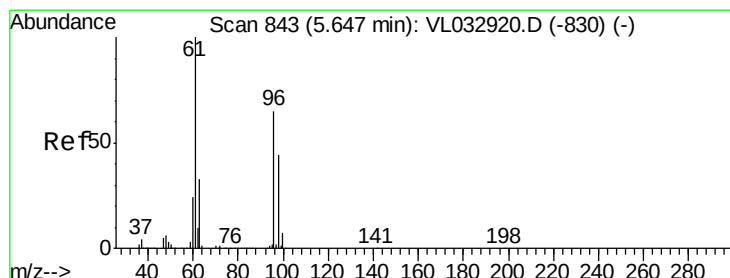
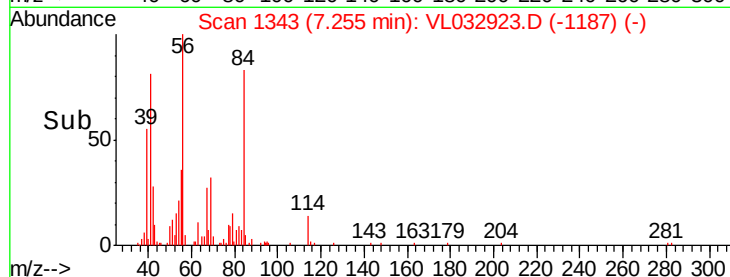
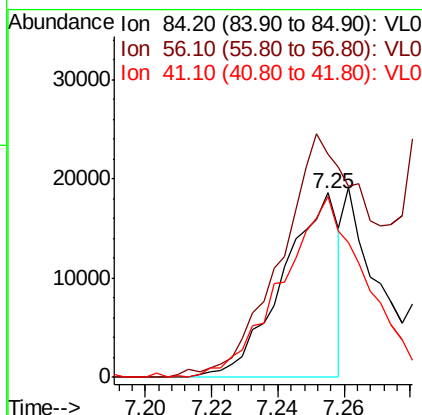
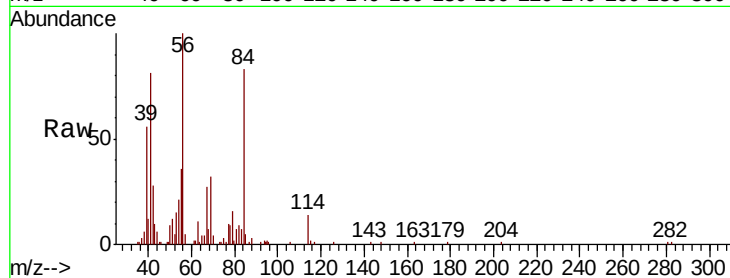




#30
Cyclohexane
Concen: 0.207 ppbv
RT: 7.25 min Scan# 1343
Delta R.T. 0.00 min
Lab File: VL032923.D
Acq: 7 Dec 2018 5:34

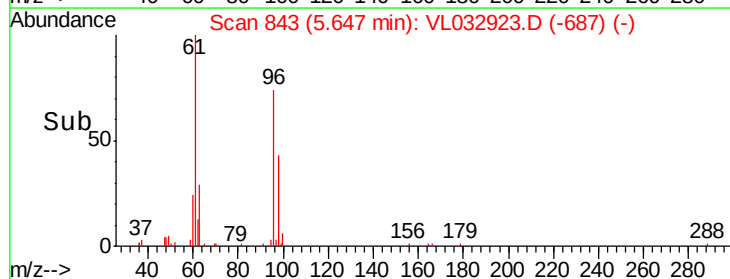
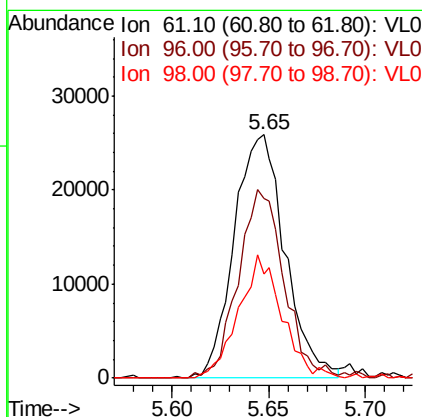
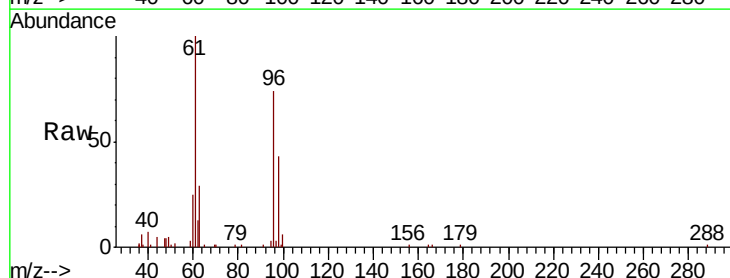
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

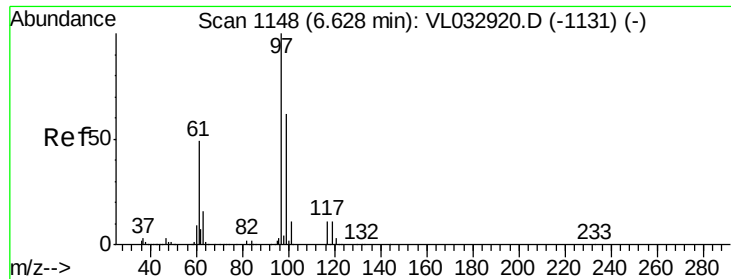
Tgt Ion: 84 Resp: 21663
Ion Ratio Lower Upper
84 100
56 198.6 102.5 153.7#
41 150.8 64.1 96.1#



#31
cis-1,2-Dichloroethene
Concen: 0.406 ppbv
RT: 5.65 min Scan# 843
Delta R.T. 0.00 min
Lab File: VL032923.D
Acq: 7 Dec 2018 5:34

Tgt Ion: 61 Resp: 47291
Ion Ratio Lower Upper
61 100
96 73.8 51.9 77.9
98 42.8 35.0 52.4





#32

1,1,1-Trichloroethane

Concen: 0.437 ppbv

RT: 6.62 min Scan# 1147

Delta R.T. -0.00 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

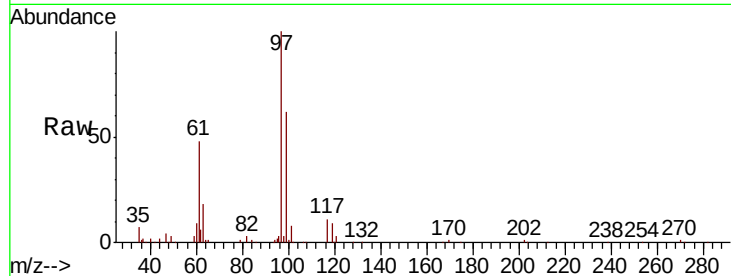
Tgt Ion: 97 Resp: 103811

Ion Ratio Lower Upper

97 100

99 63.5 51.1 76.7

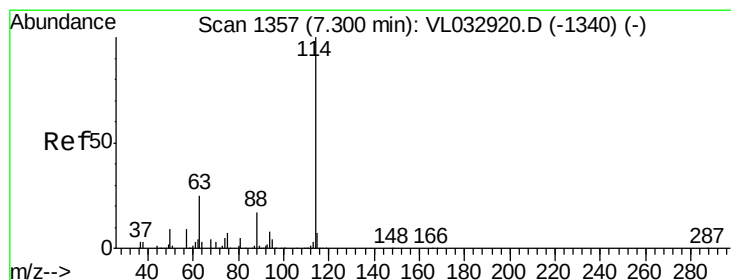
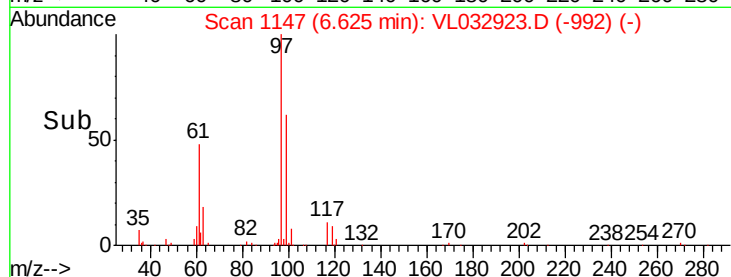
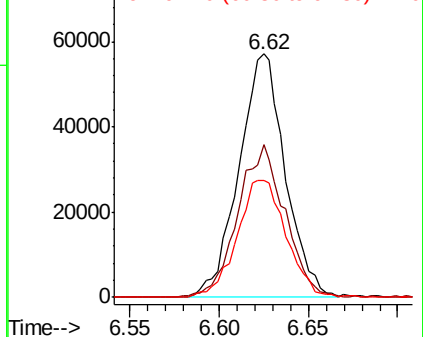
61 51.1 39.3 58.9



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: 7.30 min Scan# 1356

Delta R.T. -0.00 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

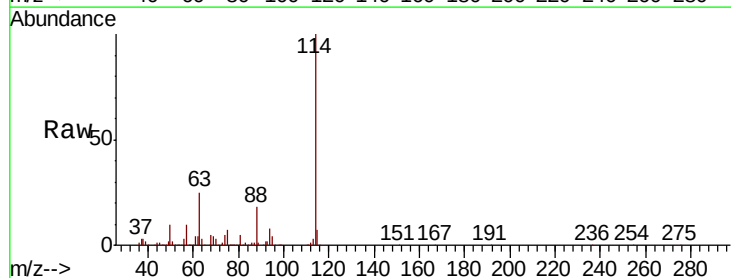
Tgt Ion: 114 Resp: 3128968

Ion Ratio Lower Upper

114 100

63 24.6 20.1 30.1

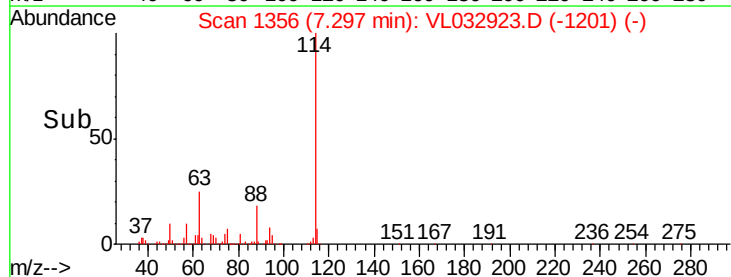
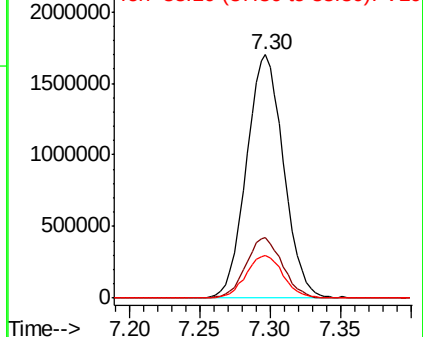
88 17.6 14.2 21.4

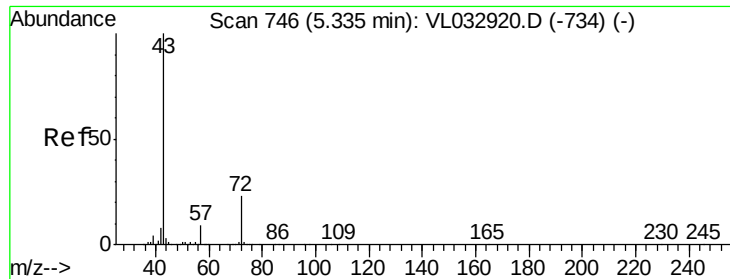


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

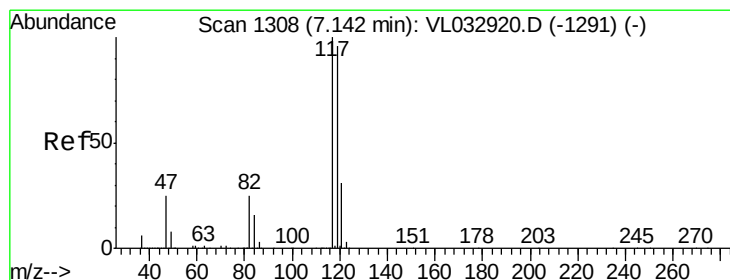
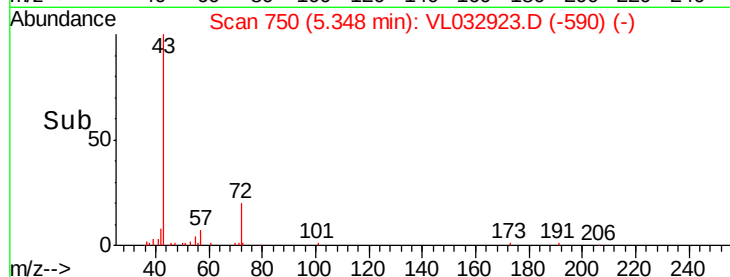
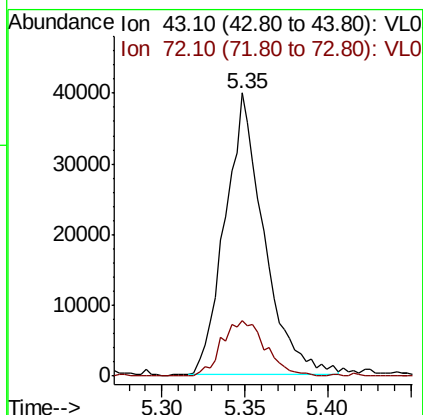
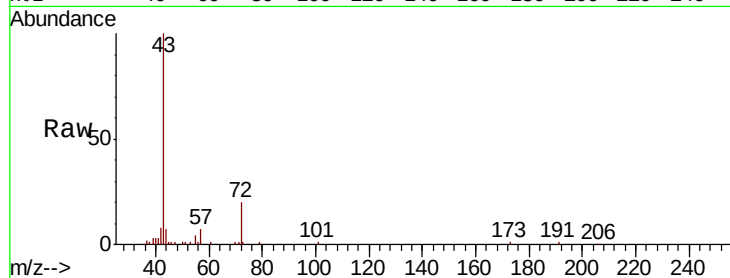




#34
2-Butanone
Concen: 0.417 ppbv
RT: 5.35 min Scan# 750
Delta R.T. 0.01 min
Lab File: VL032923.D
Acq: 7 Dec 2018 5:34

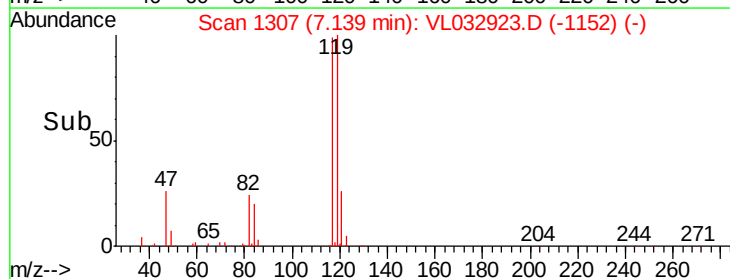
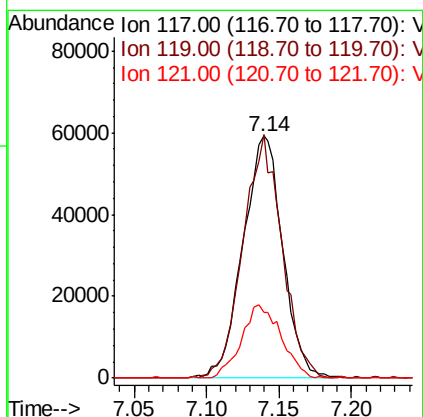
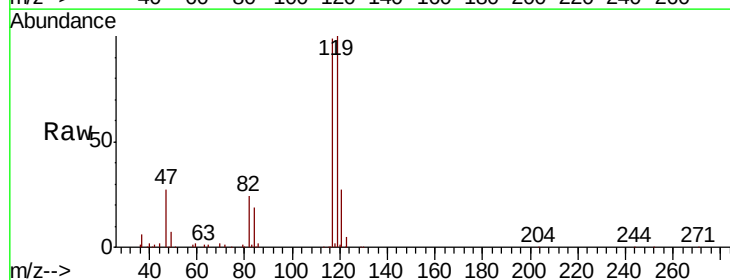
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

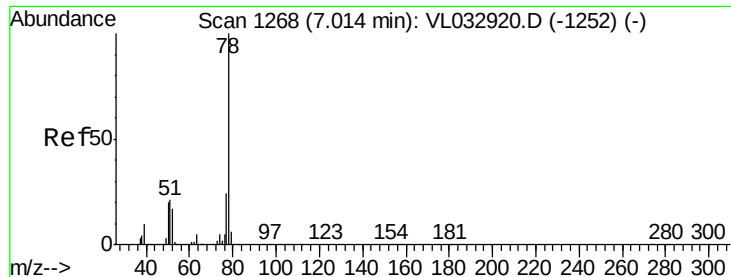
Tgt Ion: 43 Resp: 64546
Ion Ratio Lower Upper
43 100
72 22.5 18.8 28.2



#35
Carbon Tetrachloride
Concen: 0.486 ppbv
RT: 7.14 min Scan# 1307
Delta R.T. -0.00 min
Lab File: VL032923.D
Acq: 7 Dec 2018 5:34

Tgt Ion: 117 Resp: 113009
Ion Ratio Lower Upper
117 100
119 100.7 76.5 114.7
121 26.9 24.5 36.7

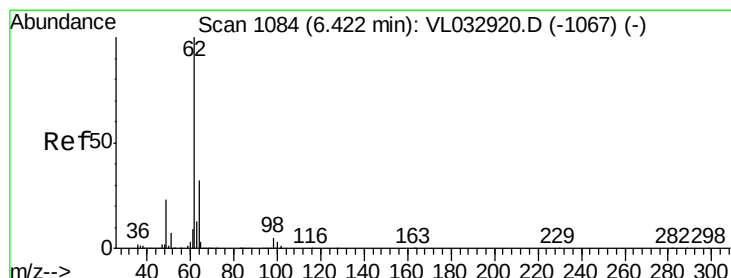
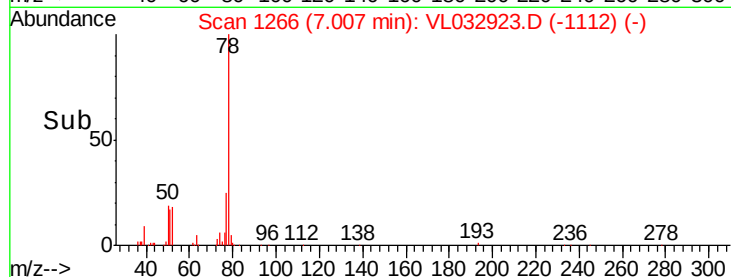
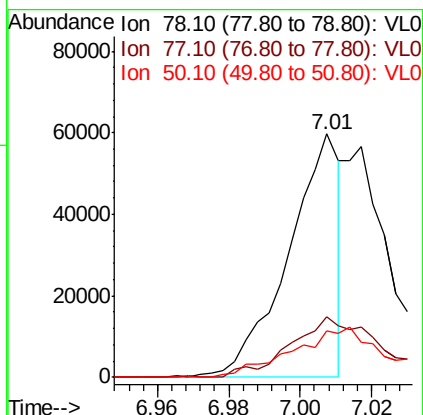
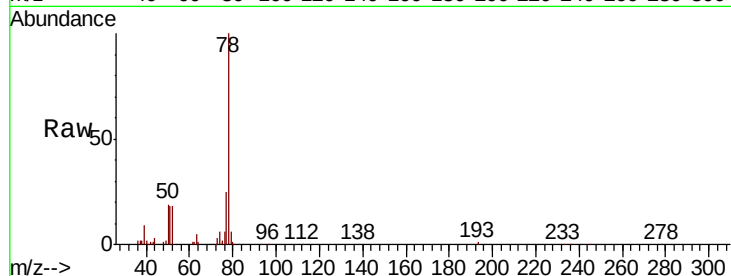




#36
Benzene
Concen: 0.244 ppbv
RT: 7.01 min Scan# 1266
Delta R.T. -0.01 min
Lab File: VL032923.D
Acq: 7 Dec 2018 5:34

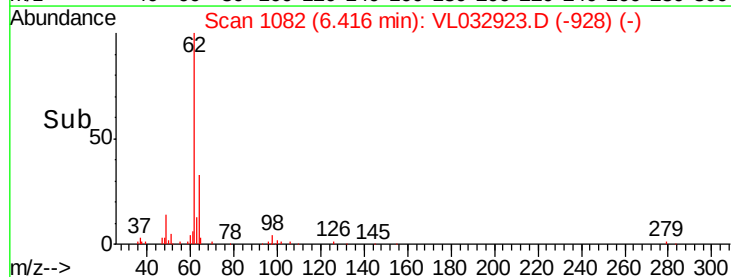
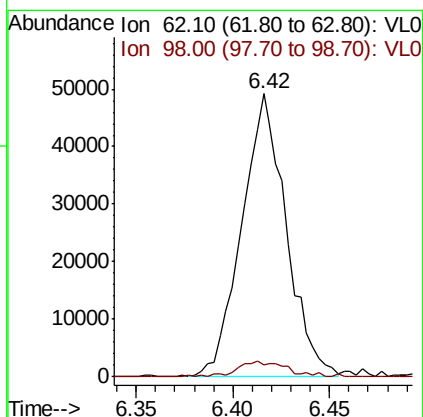
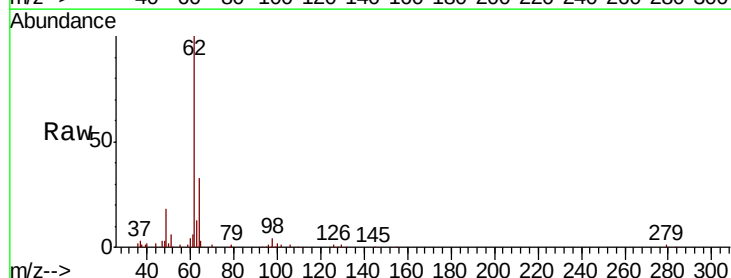
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

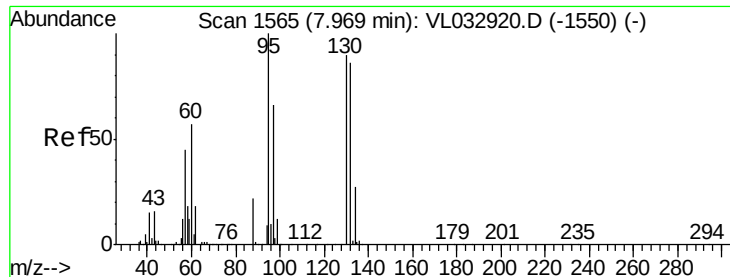
Tgt Ion: 78 Resp: 59775
Ion Ratio Lower Upper
78 100
77 24.1 18.9 28.3
50 19.3 16.1 24.1



#37
1,2-Dichloroethane
Concen: 0.500 ppbv
RT: 6.42 min Scan# 1082
Delta R.T. -0.01 min
Lab File: VL032923.D
Acq: 7 Dec 2018 5:34

Tgt Ion: 62 Resp: 78857
Ion Ratio Lower Upper
62 100
98 6.4 4.3 6.5





#38

Trichloroethene

Concen: 0.443 ppbv

RT: 7.96 min Scan# 1563

Delta R.T. -0.01 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 130 Resp: 43277

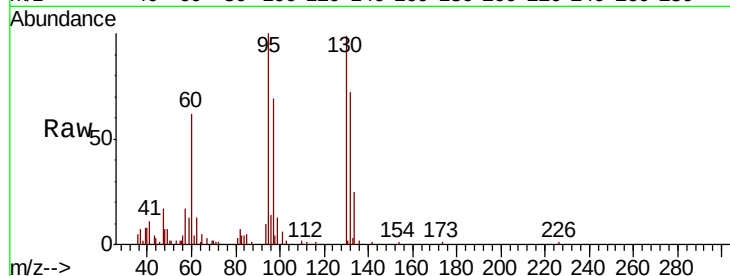
Ion Ratio Lower Upper

130 100

95 99.8 88.6 132.8

132 73.0 76.1 114.1#

97 68.4 58.0 87.0

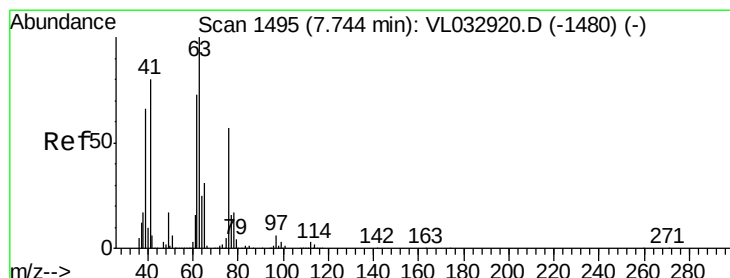
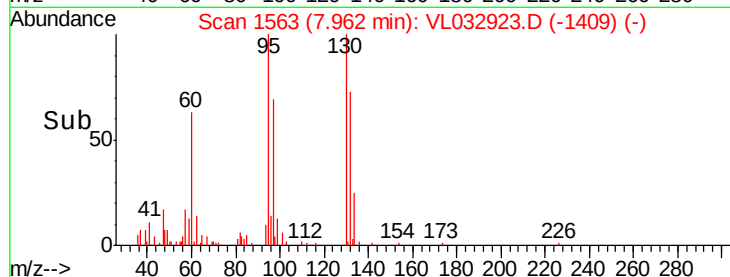
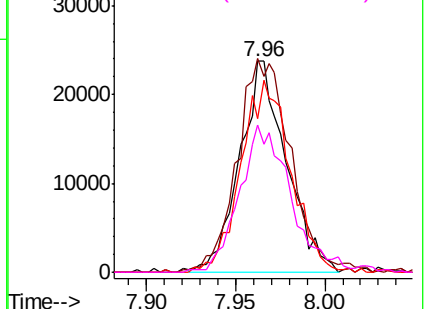


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 0.370 ppbv

RT: 7.74 min Scan# 1494

Delta R.T. -0.00 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

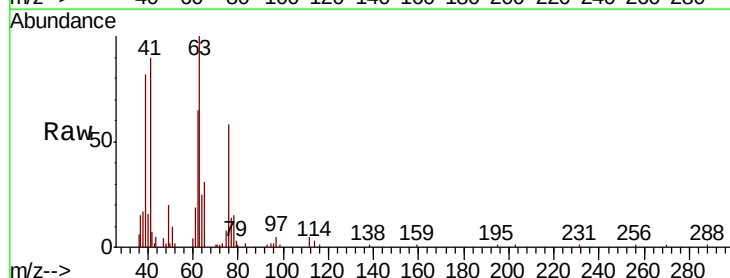
Tgt Ion: 63 Resp: 33240

Ion Ratio Lower Upper

63 100

41 89.7 63.9 95.9

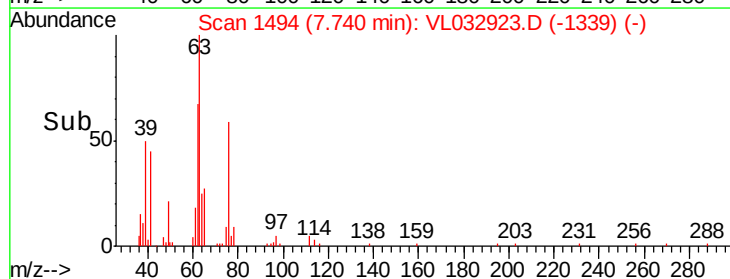
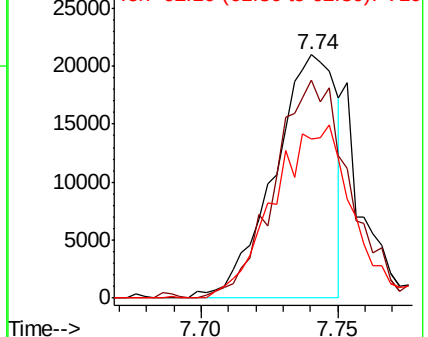
62 65.2 58.8 88.2

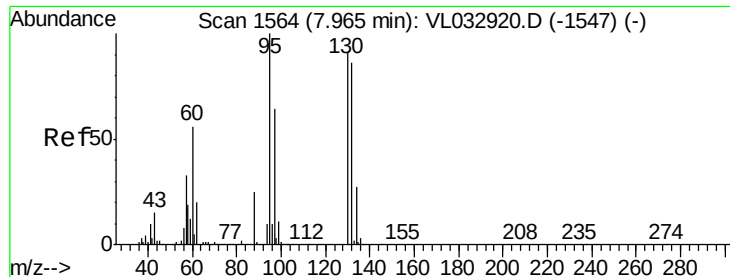


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

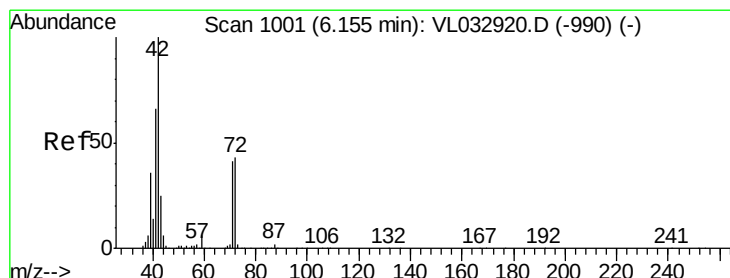
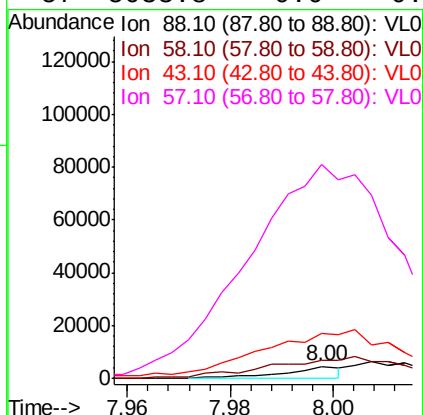
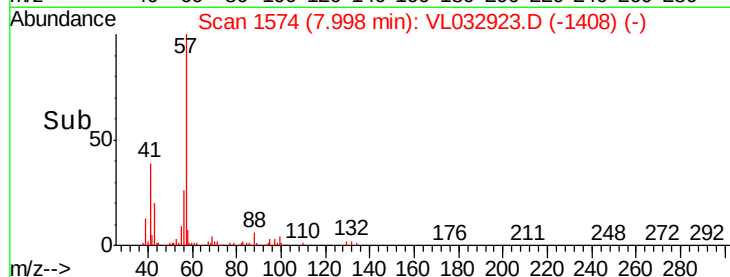
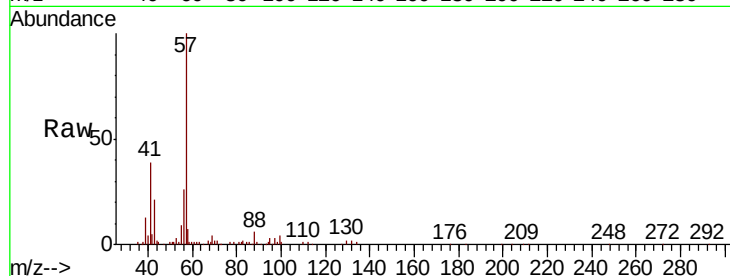




#40
1,4-Dioxane
Concen: 0.103 ppbv
RT: 8.00 min Scan# 1574
Delta R.T. 0.03 min
Lab File: VL032923.D
Acq: 7 Dec 2018 5:34

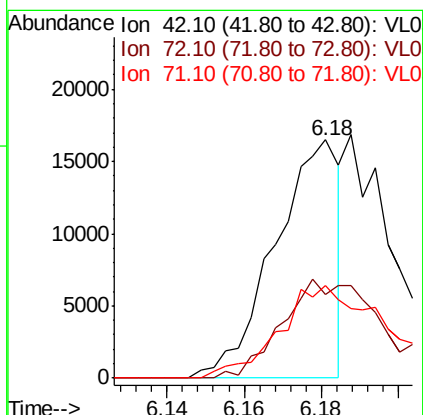
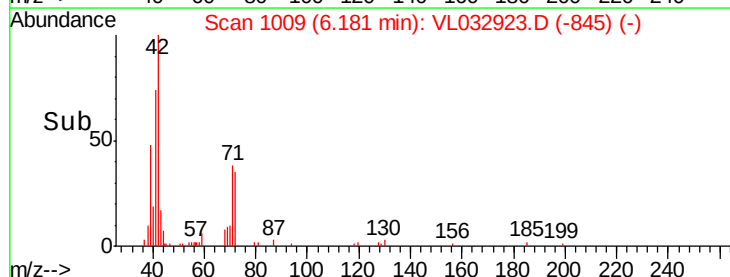
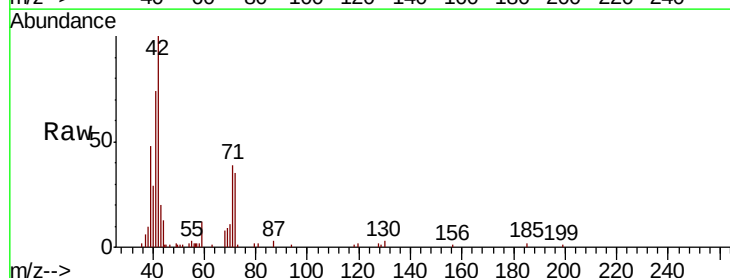
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

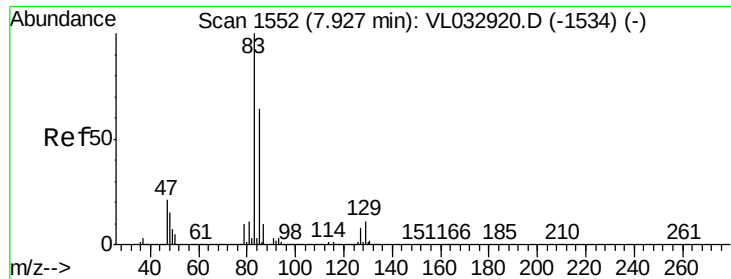
Tgt Ion: 88 Resp: 3483
Ion Ratio Lower Upper
88 100
58 0.0 107.4 161.2#
43 0.0 0.0 0.0
57 5033.8 0.0 0.0#



#41
Tetrahydrofuran
Concen: 0.217 ppbv
RT: 6.18 min Scan# 1009
Delta R.T. 0.03 min
Lab File: VL032923.D
Acq: 7 Dec 2018 5:34

Tgt Ion: 42 Resp: 19151
Ion Ratio Lower Upper
42 100
72 67.3 32.9 49.3#
71 65.8 32.0 48.0#





#42

Bromodichloromethane

Concen: 0.487 ppbv

RT: 7.92 min Scan# 1550

Delta R.T. -0.01 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

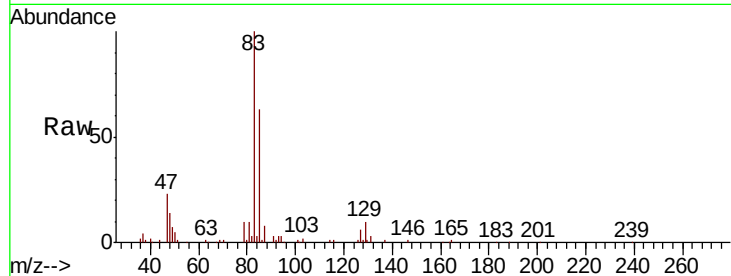
Tgt Ion: 83 Resp: 106783

Ion Ratio Lower Upper

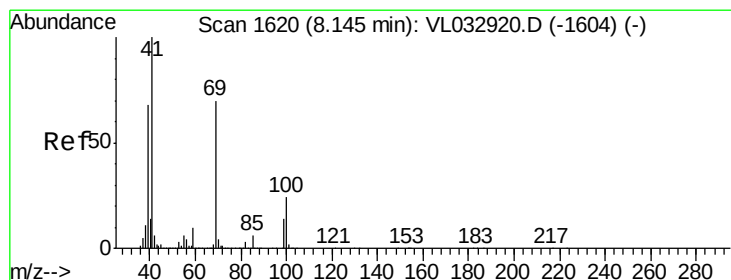
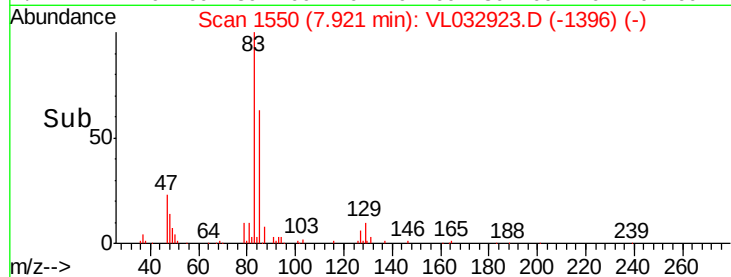
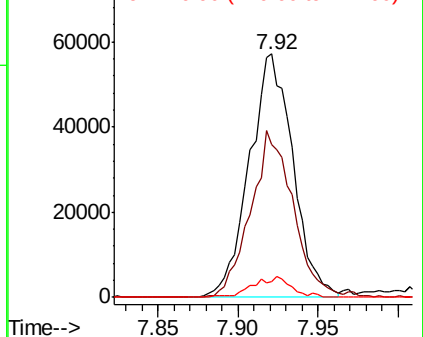
83 100

85 62.8 50.9 76.3

127 6.5 6.7 10.1#



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): VL0



#43

Methyl Methacrylate

Concen: 0.375 ppbv

RT: 8.15 min Scan# 1621

Delta R.T. 0.00 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

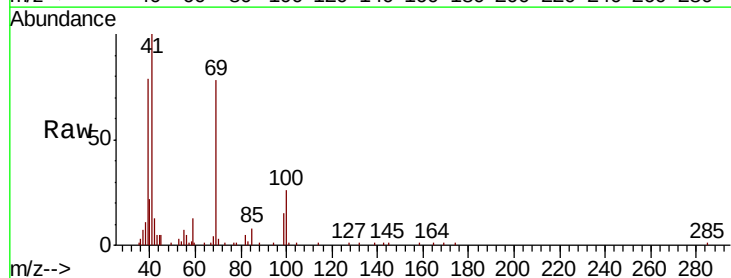
Tgt Ion: 69 Resp: 33931

Ion Ratio Lower Upper

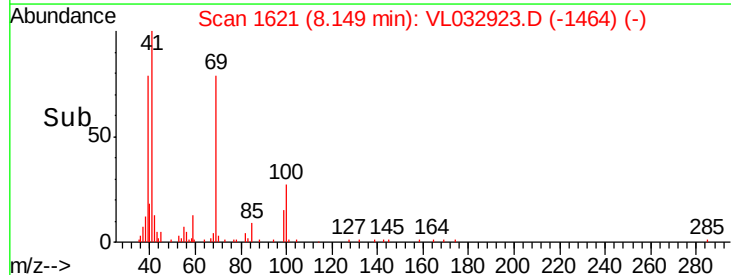
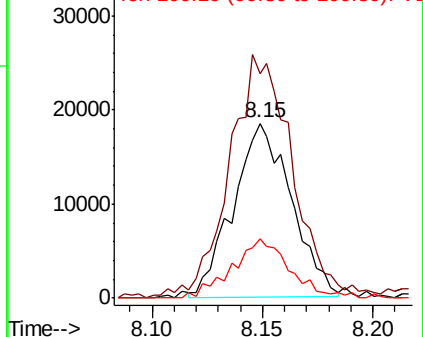
69 100

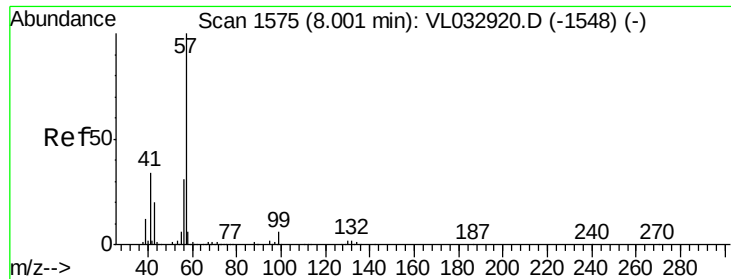
41 152.3 116.6 175.0

100 33.7 26.5 39.7



Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0

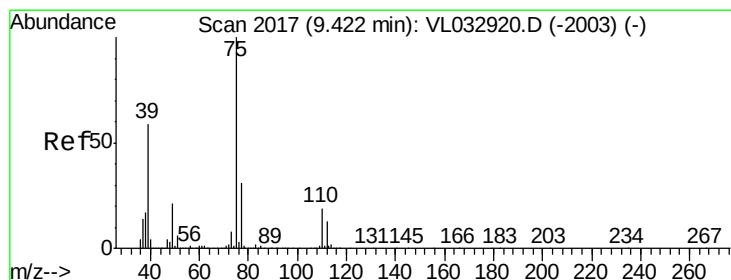
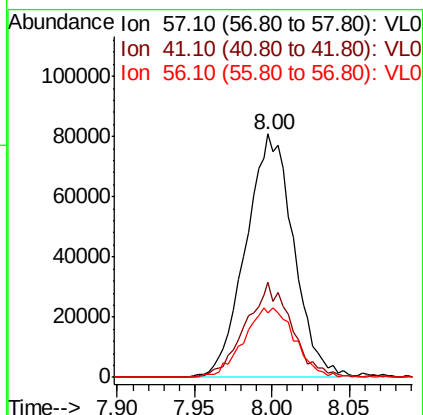
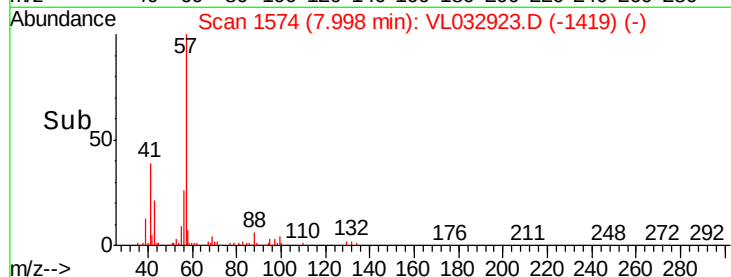
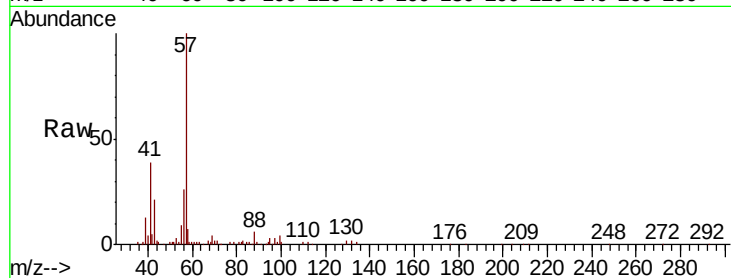




#44
 2,2,4-Trimethylpentane
 Concen: 0.432 ppbv
 RT: 8.00 min Scan# 1574
 Delta R.T. -0.00 min
 Lab File: VL032923.D
 Acq: 7 Dec 2018 5:34

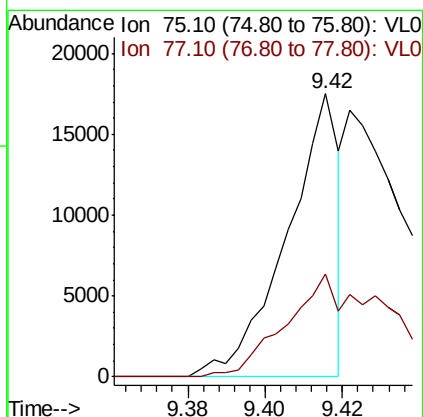
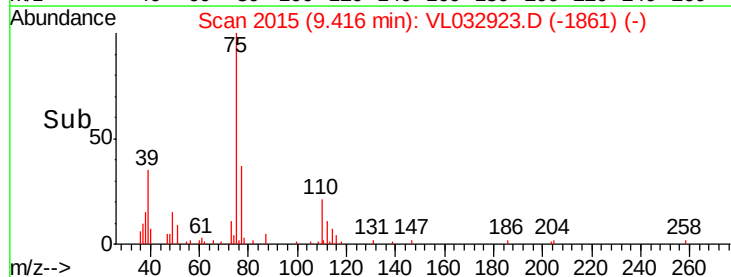
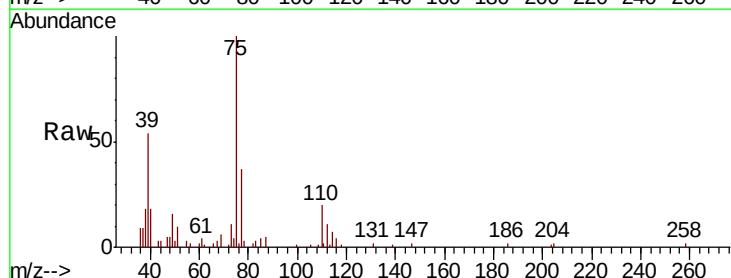
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

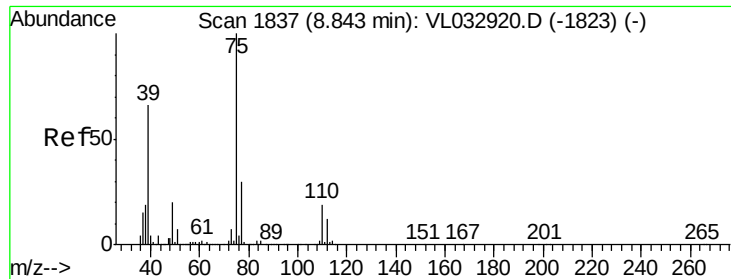
Tgt Ion: 57 Resp: 172906
 Ion Ratio Lower Upper
 57 100
 41 38.3 27.0 40.4
 56 30.8 24.6 37.0



#45
 t-1,3-Dichloropropene
 Concen: 0.137 ppbv
 RT: 9.42 min Scan# 2015
 Delta R.T. -0.01 min
 Lab File: VL032923.D
 Acq: 7 Dec 2018 5:34

Tgt Ion: 75 Resp: 16349
 Ion Ratio Lower Upper
 75 100
 77 36.5 24.8 37.2

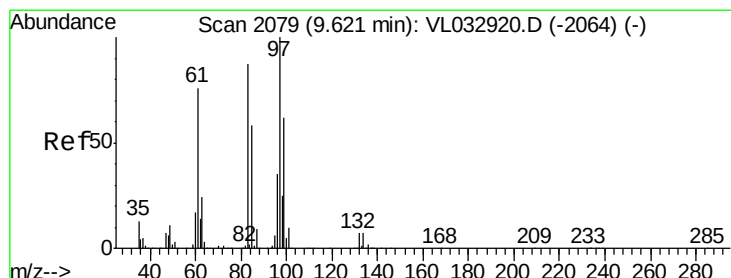
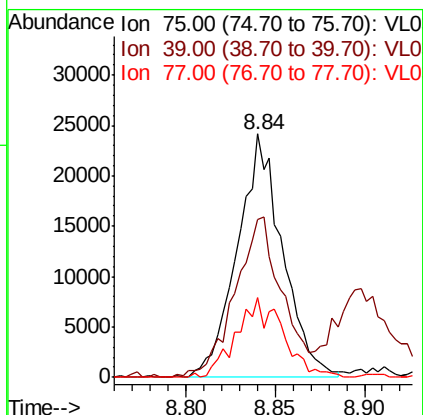
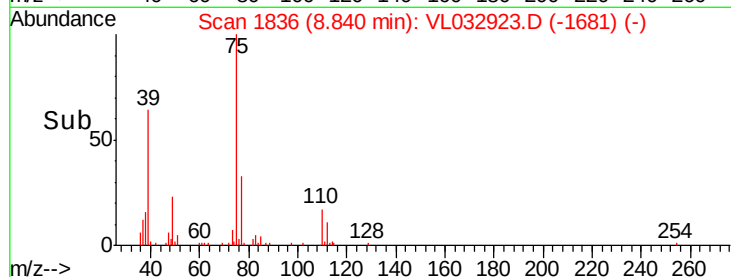
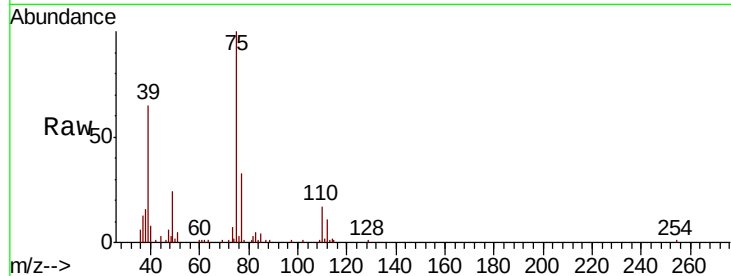




#46
 cis-1,3-Dichloropropene
 Concen: 0.317 ppbv
 RT: 8.84 min Scan# 1836
 Delta R.T. -0.00 min
 Lab File: VL032923.D
 Acq: 7 Dec 2018 5:34

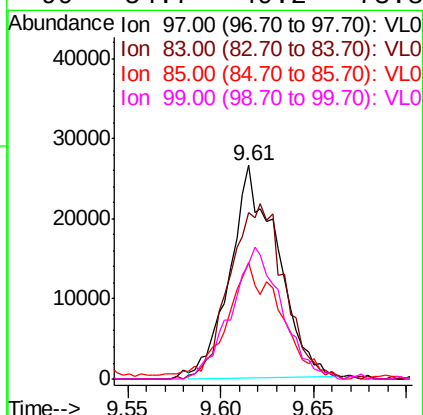
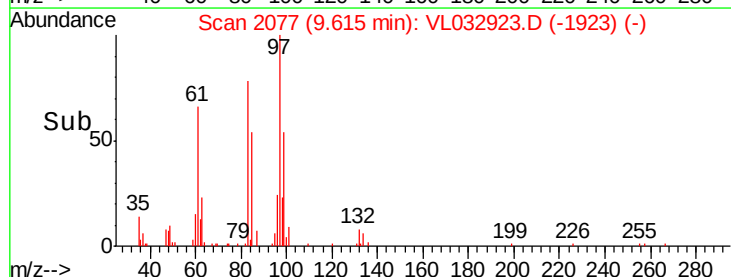
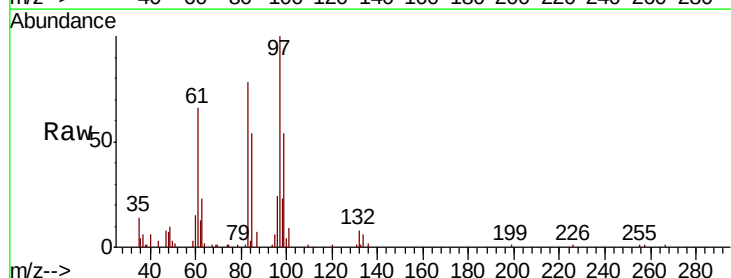
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

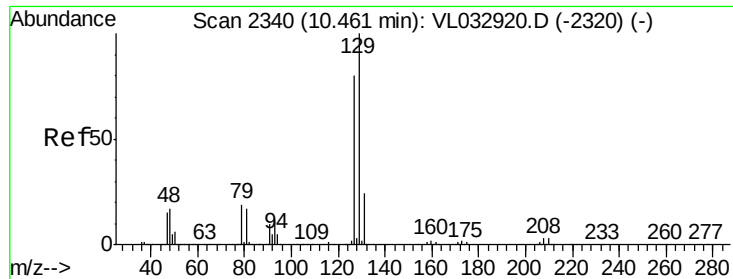
Tgt Ion	Ratio	Lower	Upper
75	100		
39	62.3	52.8	79.2
77	32.9	24.3	36.5



#47
 1,1,2-Trichloroethane
 Concen: 0.446 ppbv
 RT: 9.61 min Scan# 2077
 Delta R.T. -0.01 min
 Lab File: VL032923.D
 Acq: 7 Dec 2018 5:34

Tgt Ion	Ratio	Lower	Upper
97	100		
83	77.3	69.8	104.8
85	53.8	46.7	70.1
99	54.7	49.2	73.8

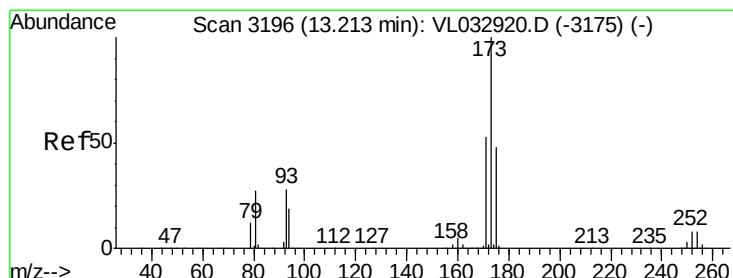
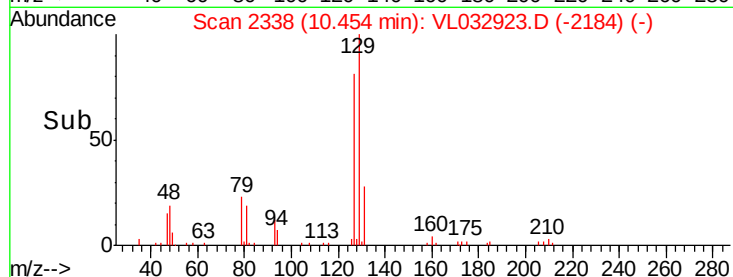
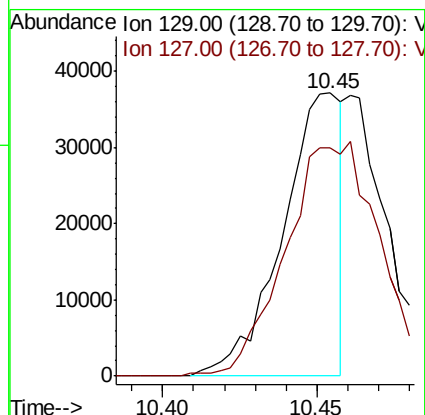
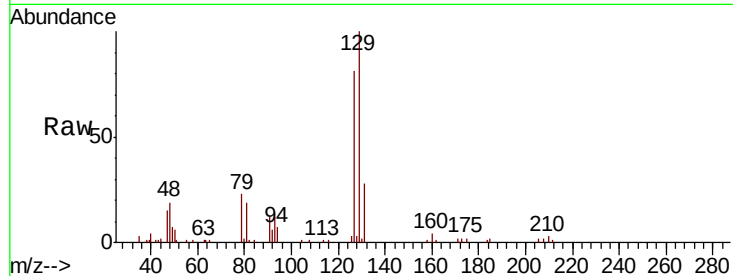




#48
 Dibromochloromethane
 Concen: 0.251 ppbv
 RT: 10.45 min Scan# 2338
 Delta R.T. -0.01 min
 Lab File: VL032923.D
 Acq: 7 Dec 2018 5:34

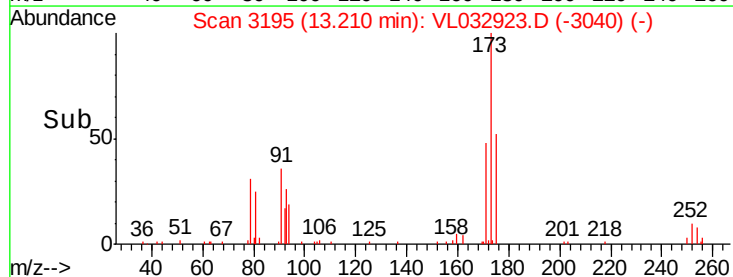
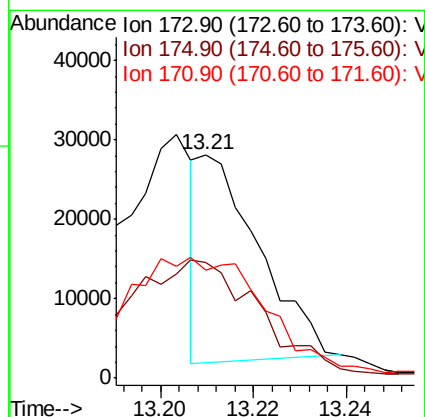
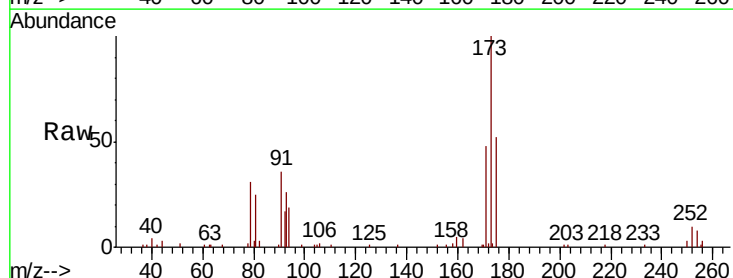
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

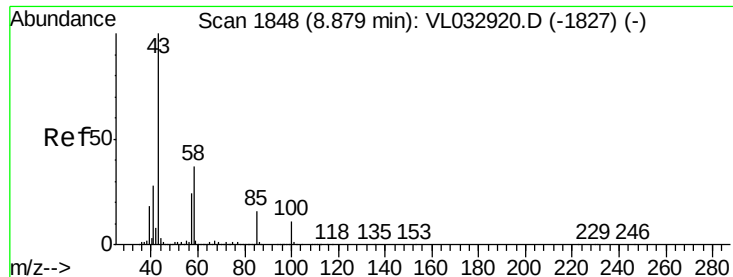
Tgt Ion:129 Resp: 49143
 Ion Ratio Lower Upper
 129 100
 127 0.0 39.3 117.8#



#49
 Bromoform
 Concen: 0.140 ppbv
 RT: 13.21 min Scan# 3195
 Delta R.T. -0.00 min
 Lab File: VL032923.D
 Acq: 7 Dec 2018 5:34

Tgt Ion:173 Resp: 22984
 Ion Ratio Lower Upper
 173 100
 175 140.2 39.0 58.4#
 171 153.7 41.5 62.3#

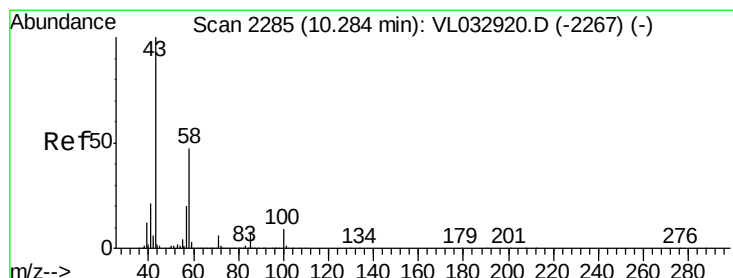
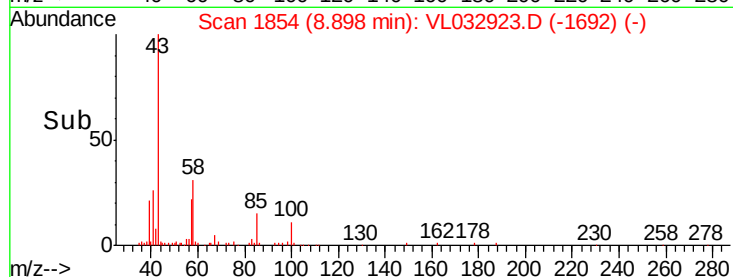
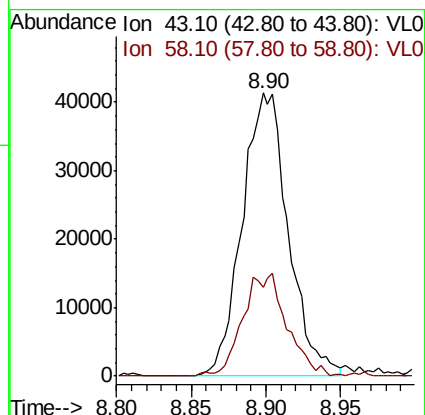
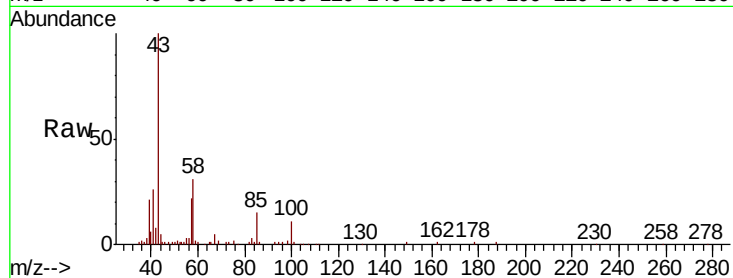




#50
 4-Methyl-2-Pentanone
 Concen: 0.393 ppbv
 RT: 8.90 min Scan# 1854
 Delta R.T. 0.02 min
 Lab File: VL032923.D
 Acq: 7 Dec 2018 5:34

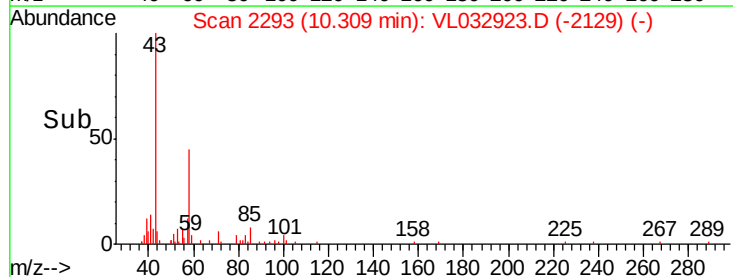
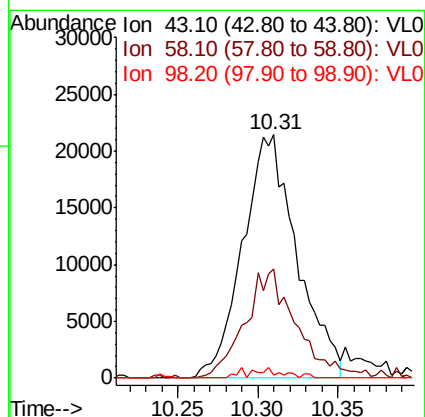
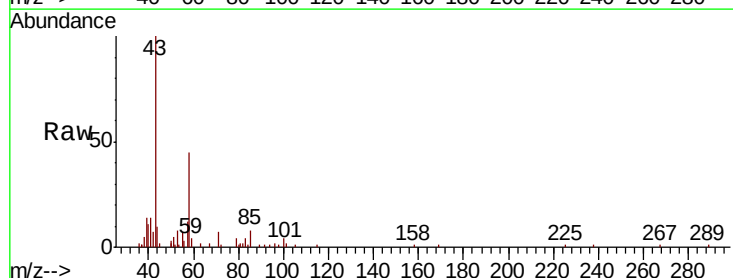
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

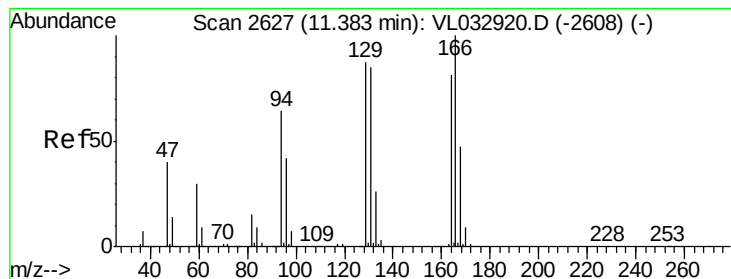
Tgt Ion: 43 Resp: 88931
 Ion Ratio Lower Upper
 43 100
 58 34.6 29.0 43.4



#51
 2-Hexanone
 Concen: 0.298 ppbv
 RT: 10.31 min Scan# 2293
 Delta R.T. 0.03 min
 Lab File: VL032923.D
 Acq: 7 Dec 2018 5:34

Tgt Ion: 43 Resp: 49978
 Ion Ratio Lower Upper
 43 100
 58 43.6 38.1 57.1
 98 2.6 0.4 0.6#





#52

Tetrachloroethene

Concen: 0.254 ppbv

RT: 11.38 min Scan# 2626

Delta R.T. -0.00 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:164 Resp: 23307

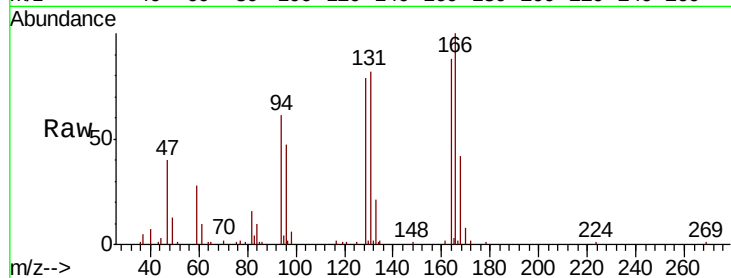
Ion Ratio Lower Upper

164 100

166 111.8 98.8 148.2

129 85.0 85.5 128.3#

131 94.2 84.4 126.6

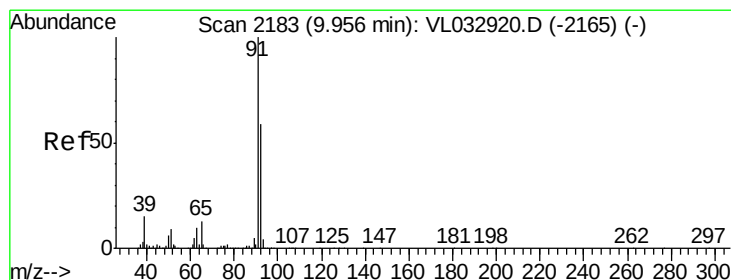
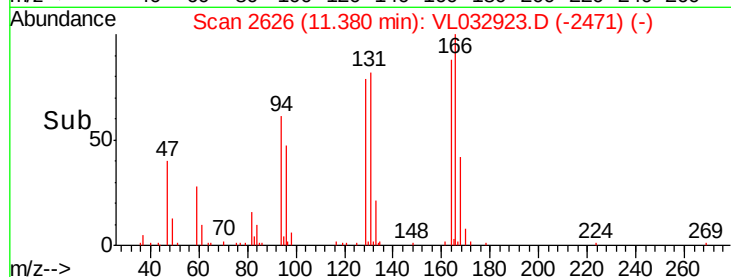
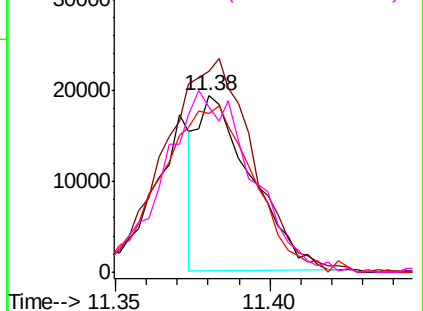


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.323 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. -0.00 min

Lab File: VL032923.D

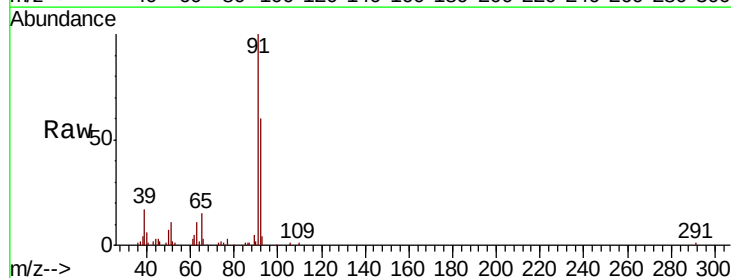
Acq: 7 Dec 2018 5:34

Tgt Ion: 91 Resp: 89633

Ion Ratio Lower Upper

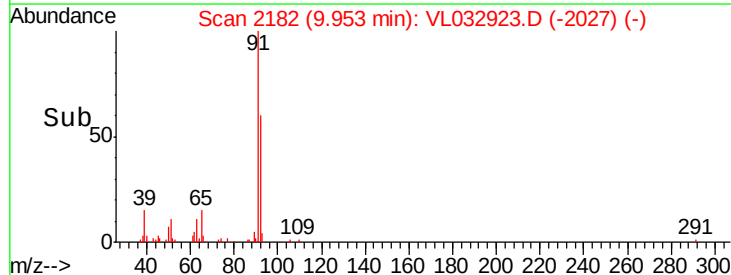
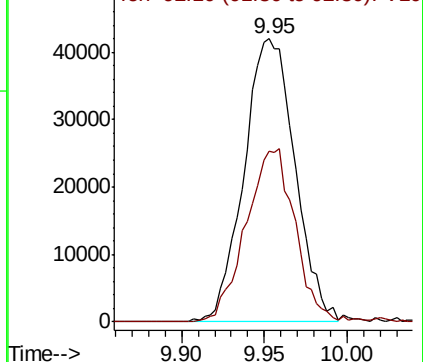
91 100

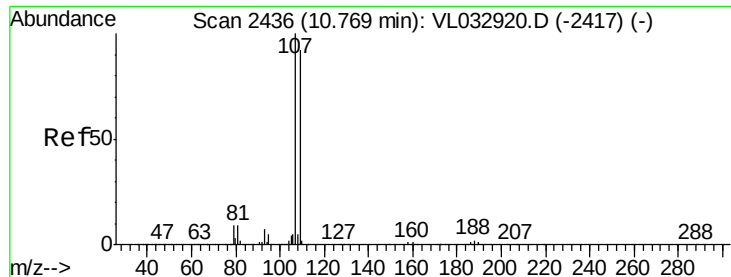
92 59.4 47.4 71.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#54

1,2-Dibromoethane

Concen: 0.395 ppbv

RT: 10.76 min Scan# 2434

Delta R.T. -0.01 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

Instrument :

MSVOA_L

ClientSampleId :

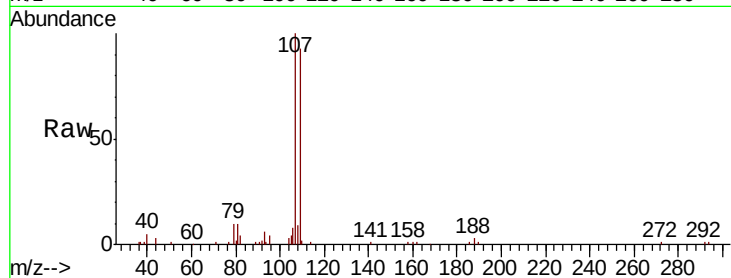
VSTDIC0.5

Tgt Ion:107 Resp: 62638

Ion Ratio Lower Upper

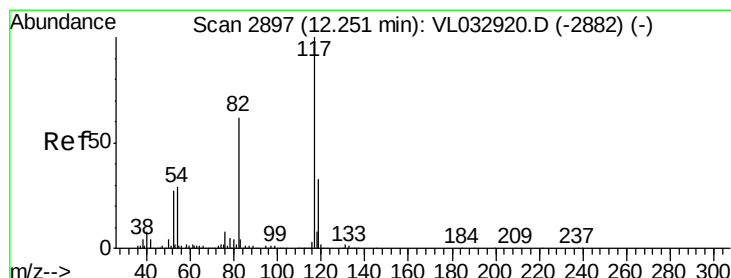
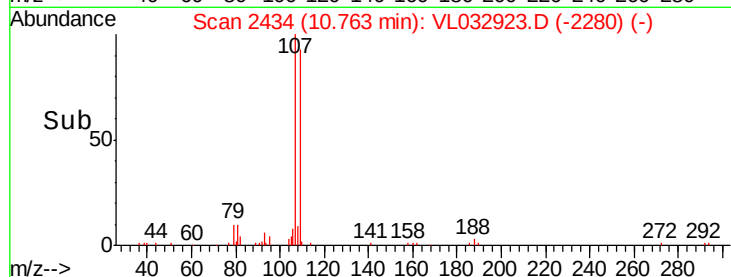
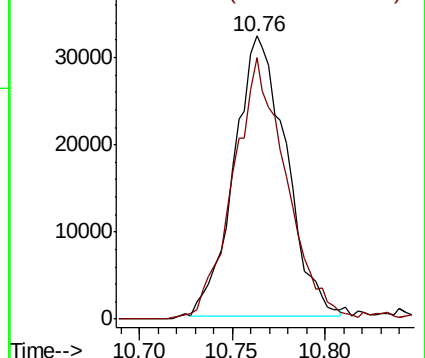
107 100

109 91.5 73.4 110.2



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: 12.25 min Scan# 2895

Delta R.T. -0.01 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

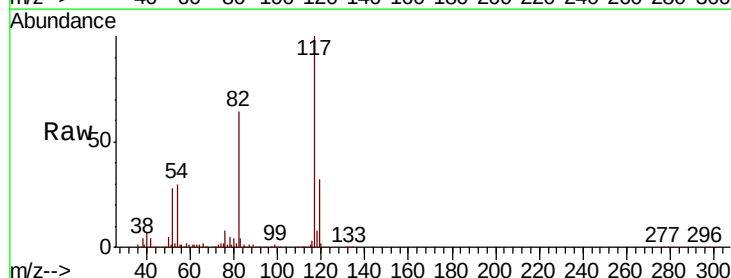
Tgt Ion:117 Resp: 2911653

Ion Ratio Lower Upper

117 100

82 63.5 47.8 71.8

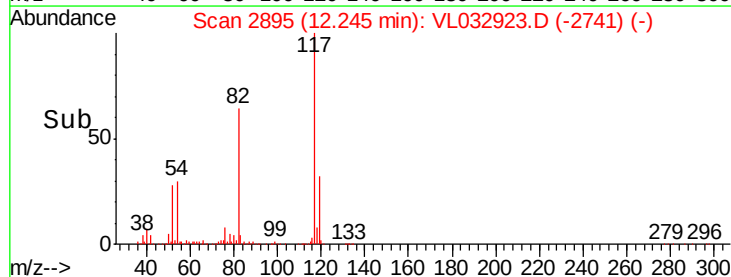
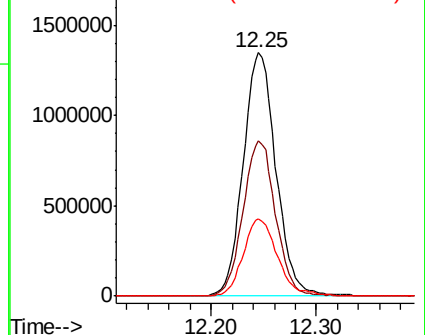
119 33.4 43.1 64.7#

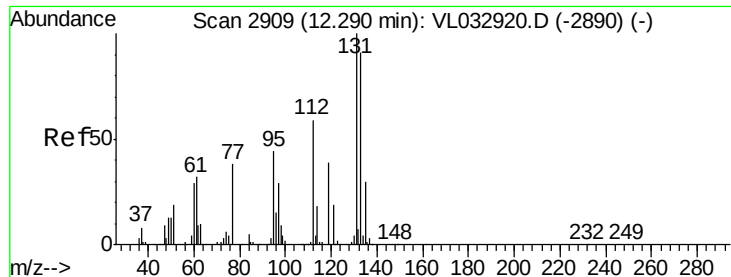


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VLO

Ion 119.10 (118.80 to 119.80): V





#56

1,1,1,2-Tetrachloroethane

Concen: 0.540 ppbv

RT: 12.28 min Scan# 2907

Delta R.T. -0.01 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

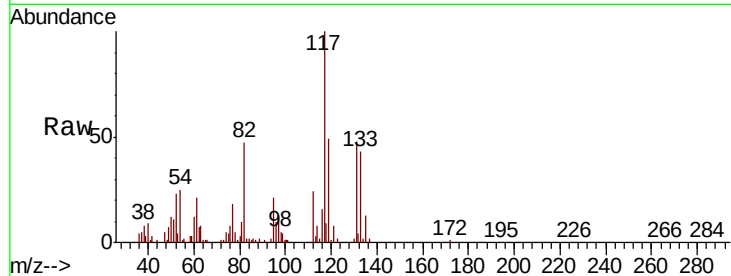
Tgt Ion:131 Resp: 70975

Ion Ratio Lower Upper

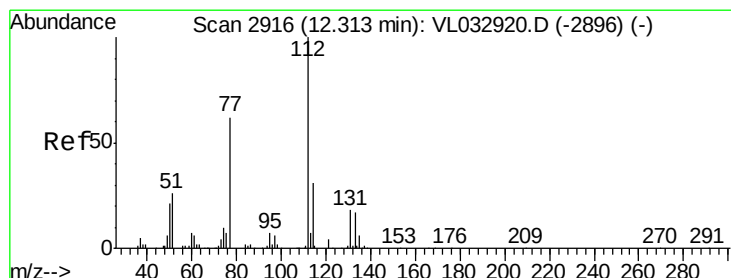
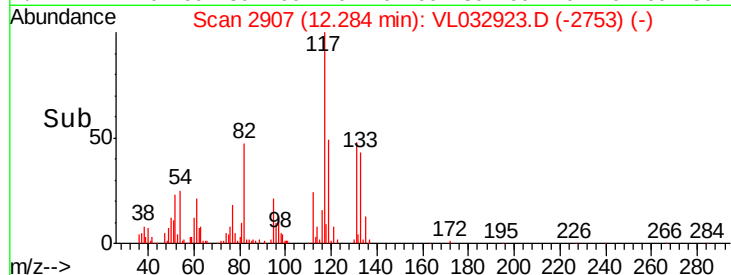
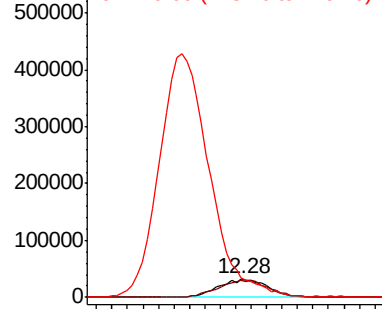
131 100

133 95.9 75.1 112.7

119 1366.9 47.5 71.3#



Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V



#57

Chlorobenzene

Concen: 0.526 ppbv

RT: 12.30 min Scan# 2912

Delta R.T. -0.01 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

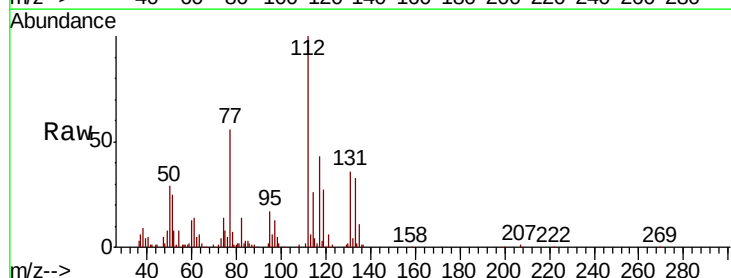
Tgt Ion:112 Resp: 114275

Ion Ratio Lower Upper

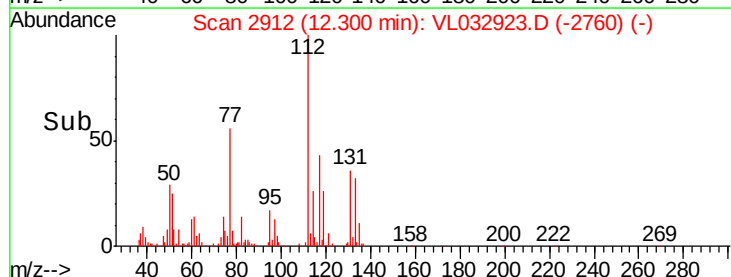
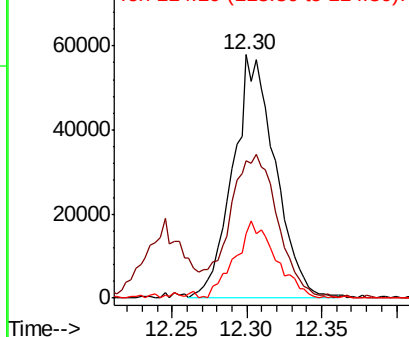
112 100

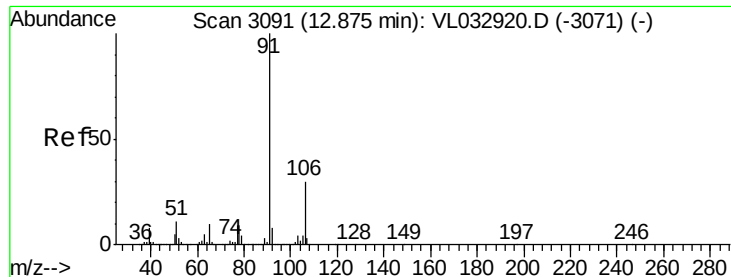
77 55.8 51.1 76.7

114 26.3 28.4 34.7#



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: 0.353 ppbv

RT: 12.88 min Scan# 3091

Delta R.T. 0.00 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

Instrument :

MSVOA_L

ClientSampleId :

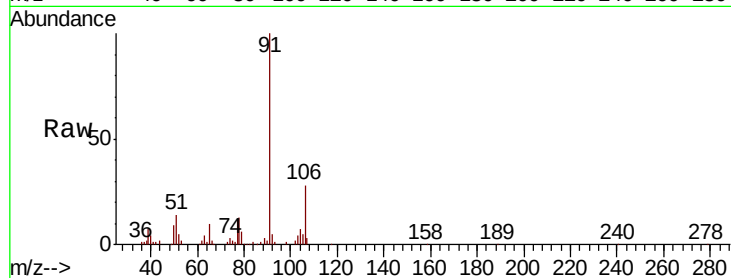
VSTDIC0.5

Tgt Ion: 91 Resp: 117284

Ion Ratio Lower Upper

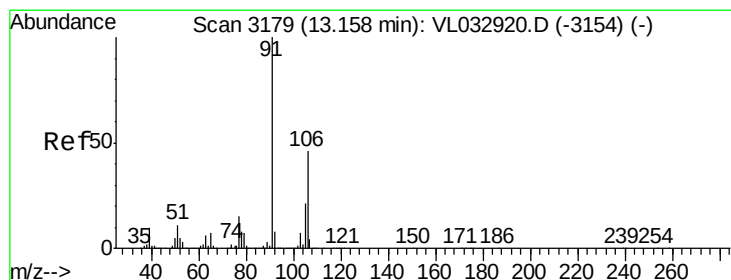
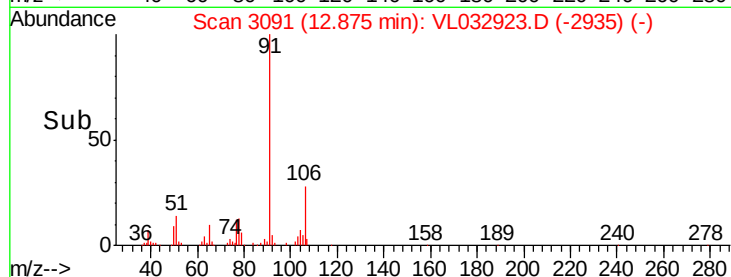
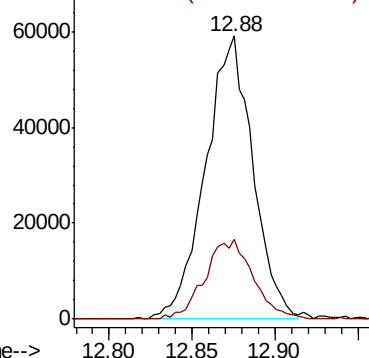
91 100

106 28.2 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: 0.161 ppbv

RT: 13.15 min Scan# 3176

Delta R.T. -0.01 min

Lab File: VL032923.D

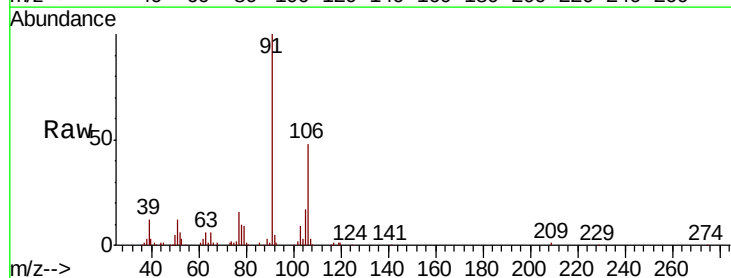
Acq: 7 Dec 2018 5:34

Tgt Ion: 91 Resp: 48200

Ion Ratio Lower Upper

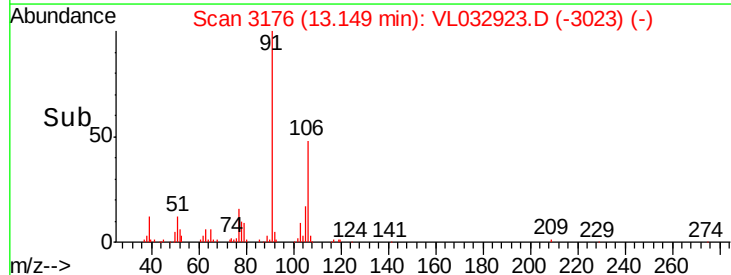
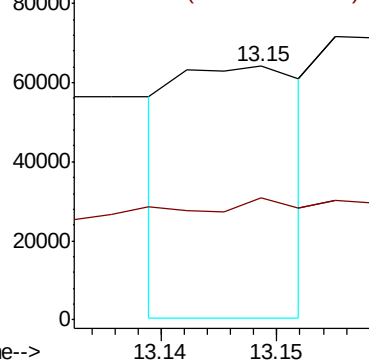
91 100

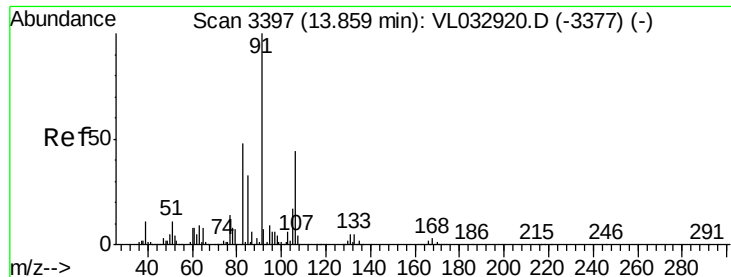
106 224.0 0.0 0.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#60

o-Xylene

Concen: 0.414 ppbv

RT: 13.86 min Scan# 3396

Delta R.T. -0.00 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

Instrument :

MSVOA_L

ClientSampleId :

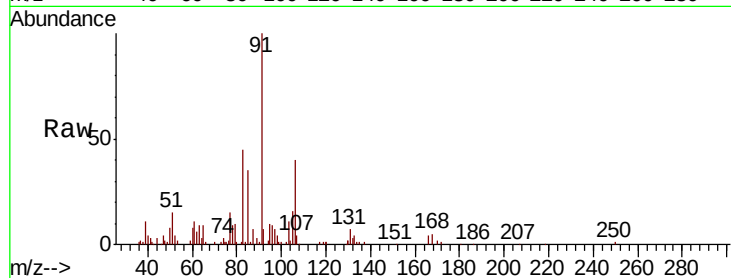
VSTDIC0.5

Tgt Ion: 91 Resp: 121283

Ion Ratio Lower Upper

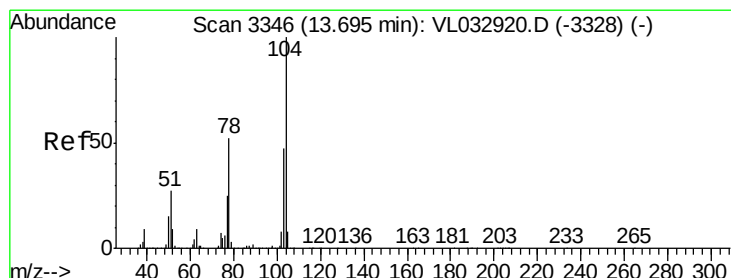
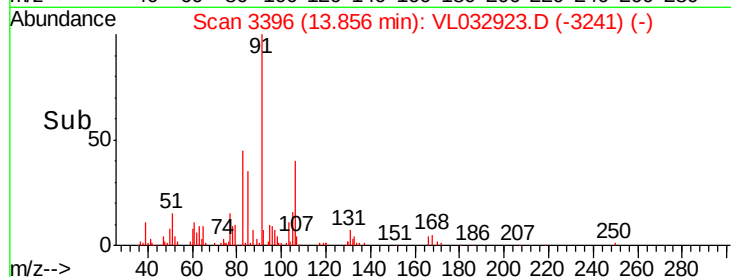
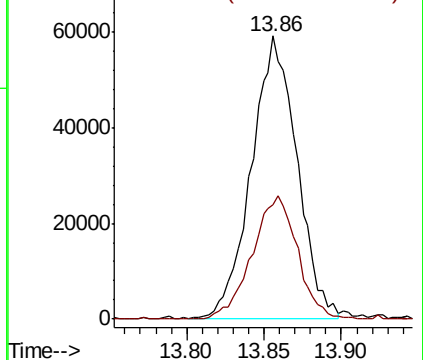
91 100

106 43.2 21.9 65.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#61

Styrene

Concen: 0.161 ppbv

RT: 13.69 min Scan# 3344

Delta R.T. -0.01 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

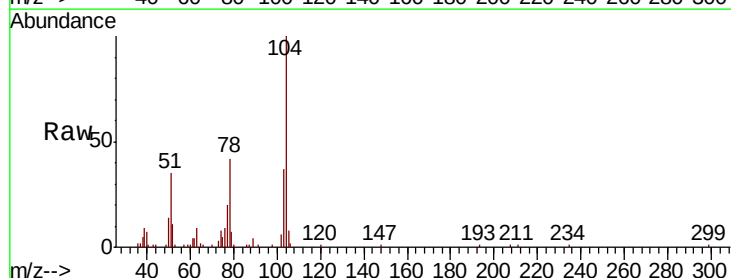
Tgt Ion: 104 Resp: 31475

Ion Ratio Lower Upper

104 100

78 0.0 42.0 63.0#

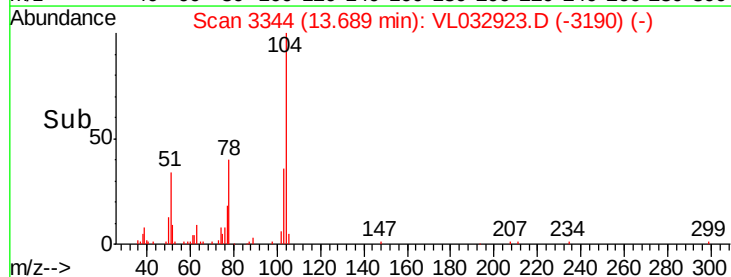
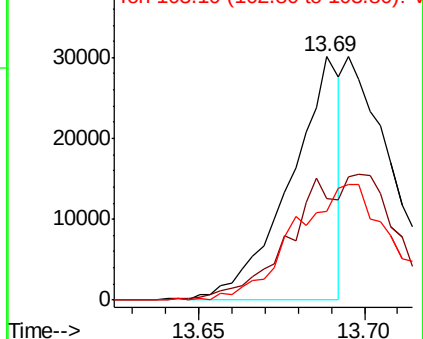
103 0.0 38.3 57.5#

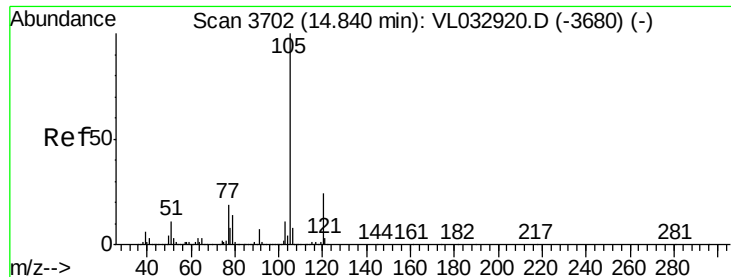


Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V





#62

Isopropylbenzene

Concen: 0.425 ppbv

RT: 14.83 min Scan# 3700

Delta R.T. -0.01 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

Instrument :

MSVOA_L

ClientSampleId :

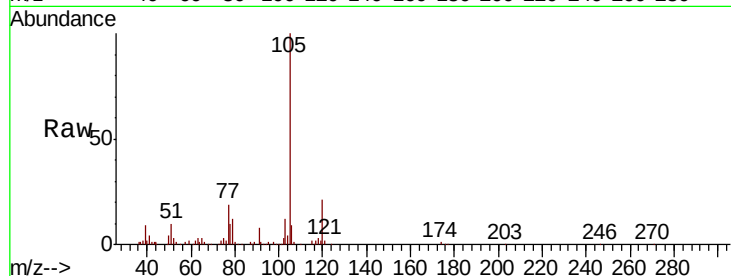
VSTDIC0.5

Tgt Ion: 105 Resp: 176655

Ion Ratio Lower Upper

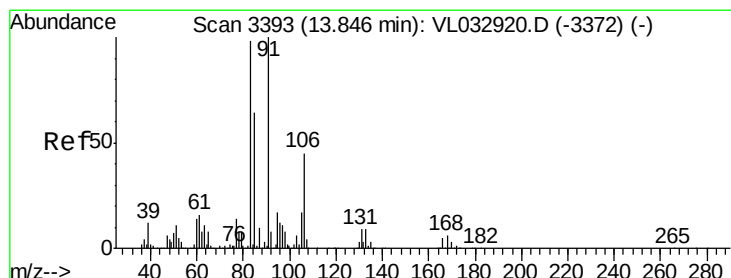
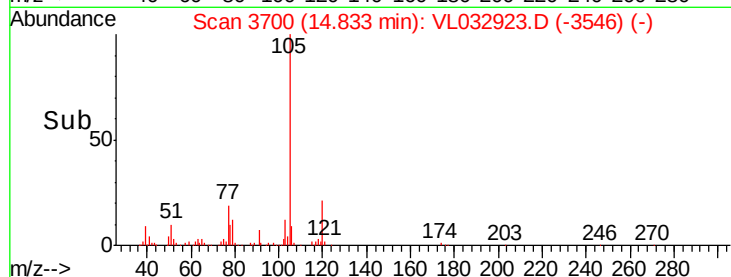
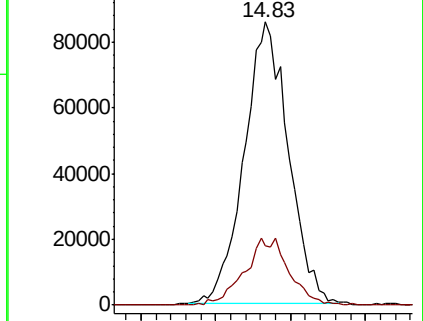
105 100

120 23.9 20.3 30.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#63

1,1,2,2-Tetrachloroethane

Concen: 0.251 ppbv

RT: 13.84 min Scan# 3391

Delta R.T. -0.01 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

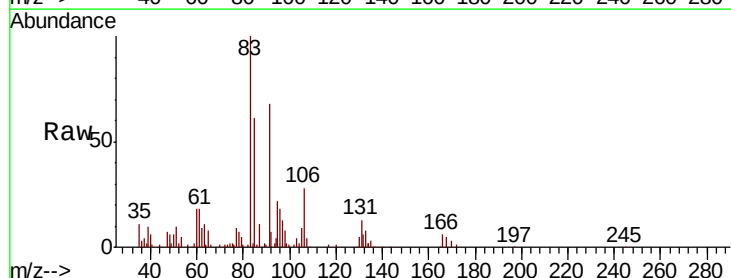
Tgt Ion: 83 Resp: 55367

Ion Ratio Lower Upper

83 100

131 20.9 4.9 14.6#

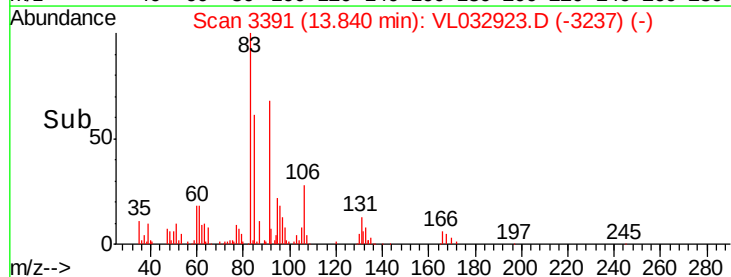
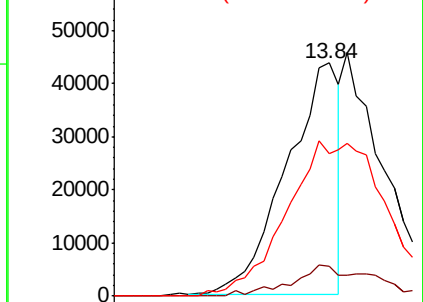
85 128.2 32.9 98.6#

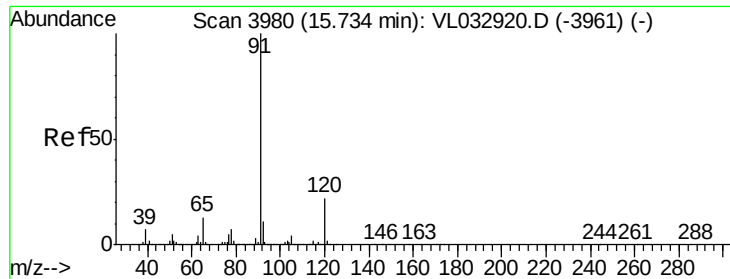


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0





#64

n-propylbenzene

Concen: 0.224 ppbv

RT: 15.73 min Scan# 3978

Delta R.T. -0.01 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

Instrument :

MSVOA_L

ClientSampleId :

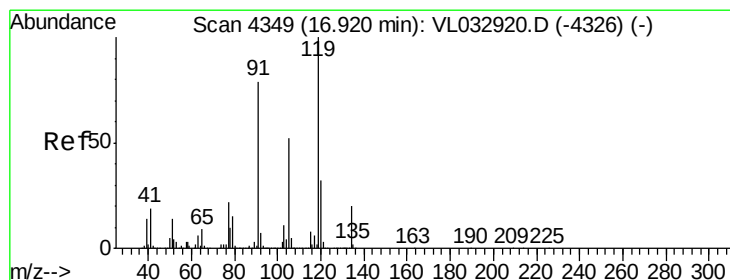
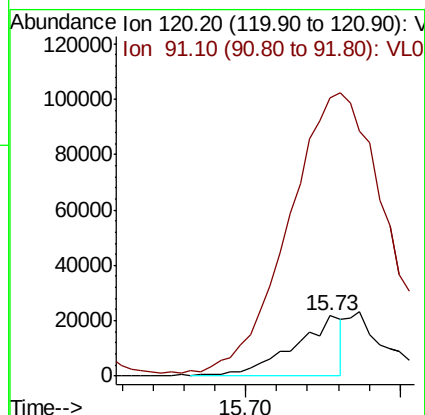
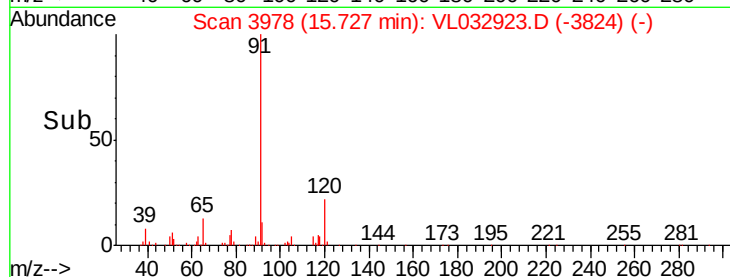
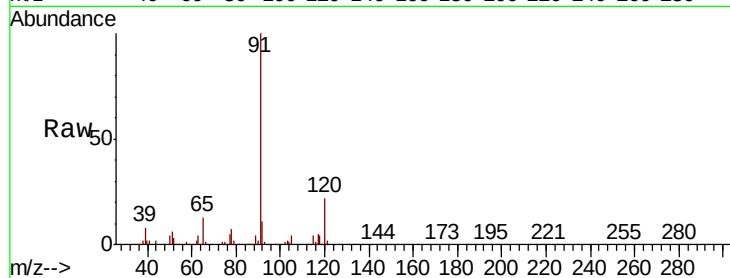
VSTDIC0.5

Tgt Ion:120 Resp: 23483

Ion Ratio Lower Upper

120 100

91 969.0 380.4 570.6#



#65

tert-Butylbenzene

Concen: 0.440 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. 0.00 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

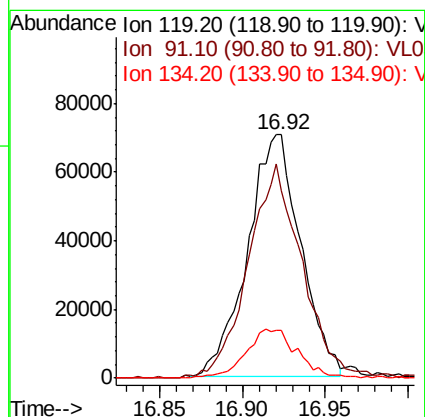
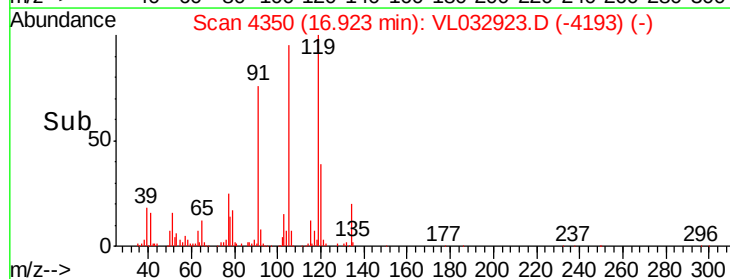
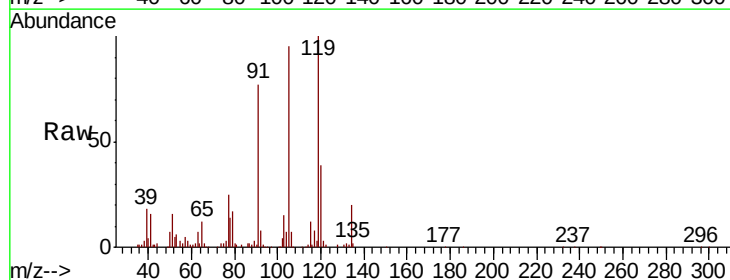
Tgt Ion:119 Resp: 156687

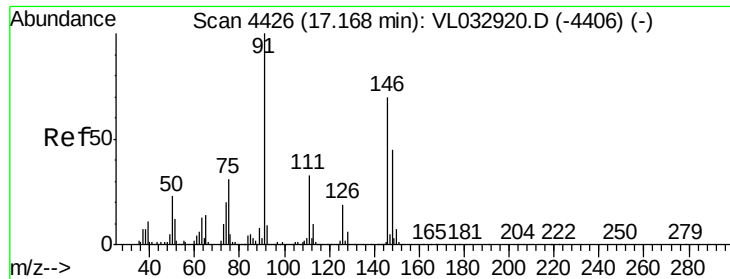
Ion Ratio Lower Upper

119 100

91 90.3 64.5 96.7

134 19.9 15.7 23.5

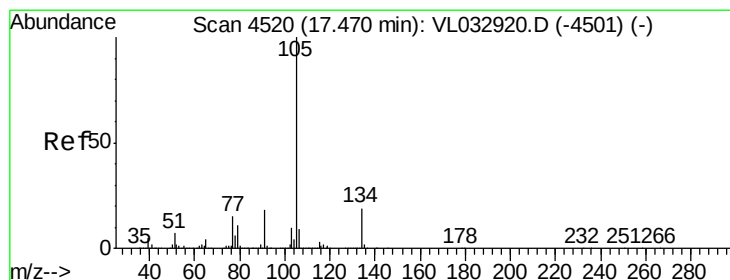
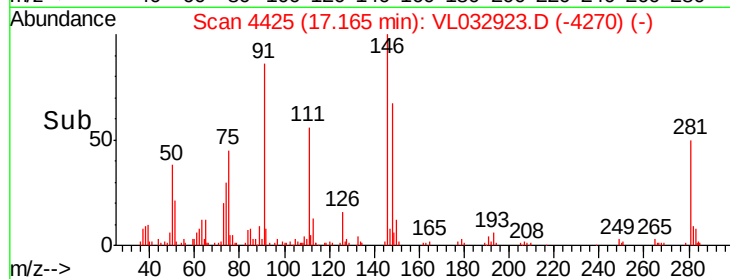
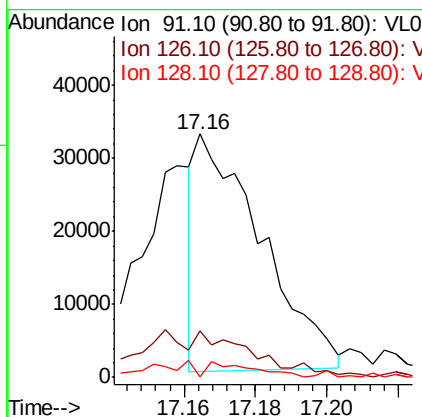
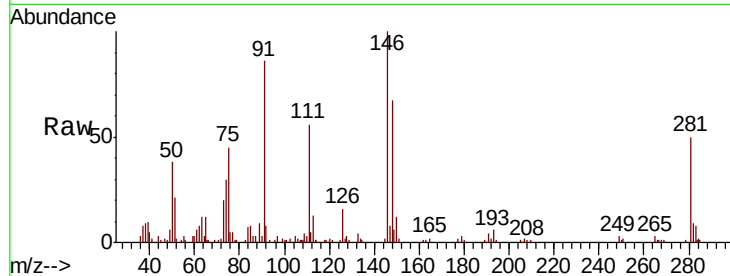




#66
Benzyl Chloride
Concen: 0.218 ppbv
RT: 17.16 min Scan# 4425
Delta R.T. -0.00 min
Lab File: VL032923.D
Acq: 7 Dec 2018 5:34

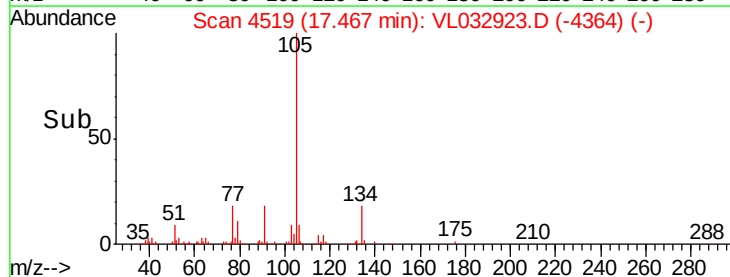
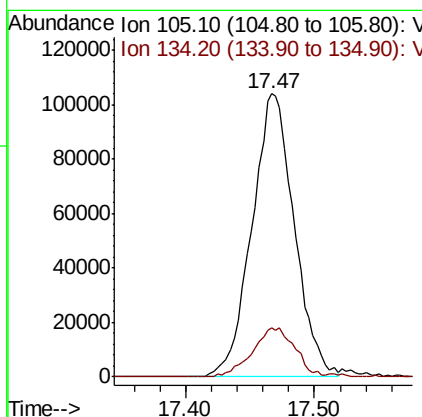
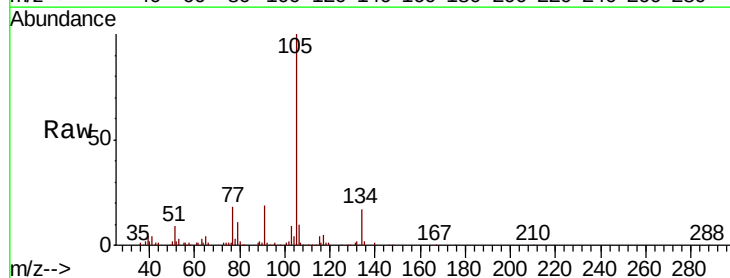
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

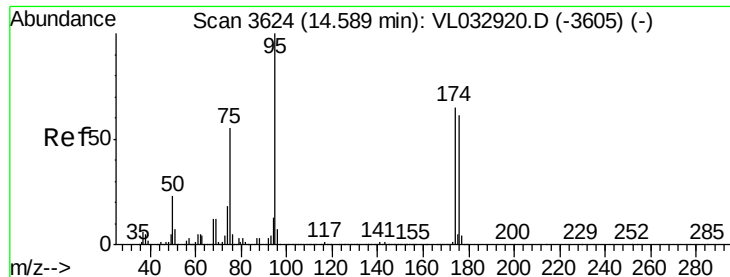
Tgt Ion: 91 Resp: 41229
Ion Ratio Lower Upper
91 100
126 0.0 14.1 21.1#
128 10.2 4.5 6.7#



#67
sec-Butylbenzene
Concen: 0.471 ppbv
RT: 17.47 min Scan# 4519
Delta R.T. -0.00 min
Lab File: VL032923.D
Acq: 7 Dec 2018 5:34

Tgt Ion: 105 Resp: 237818
Ion Ratio Lower Upper
105 100
134 17.9 14.6 21.8

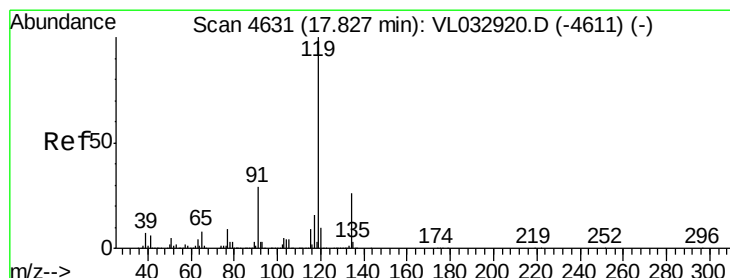
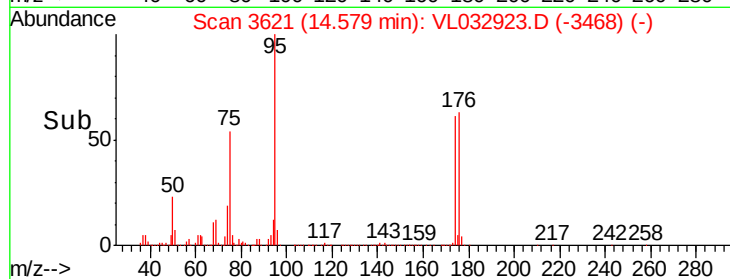
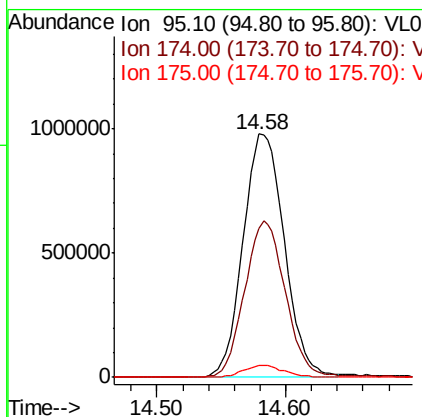
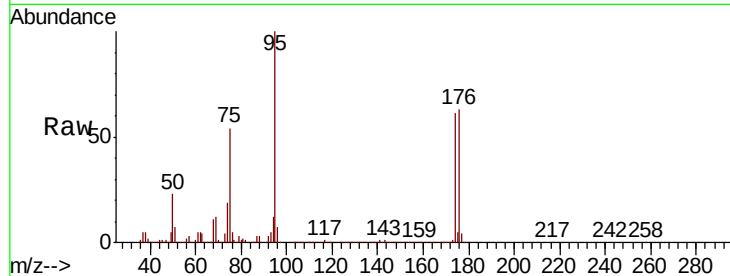




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.279 ppbv
 RT: 14.58 min Scan# 3621
 Delta R.T. -0.01 min
 Lab File: VL032923.D
 Acq: 7 Dec 2018 5:34

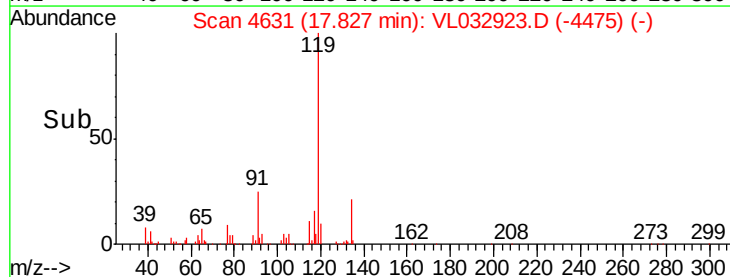
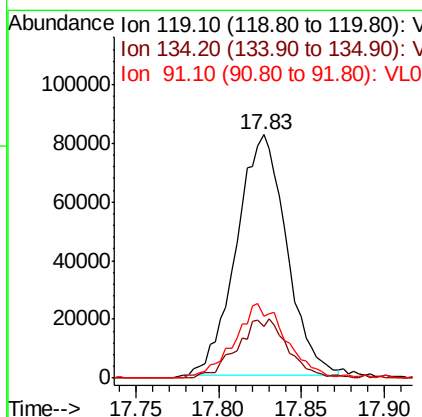
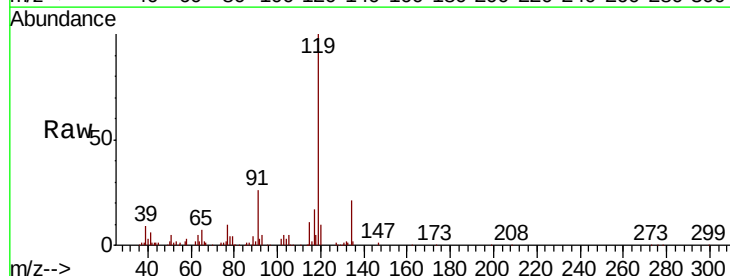
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

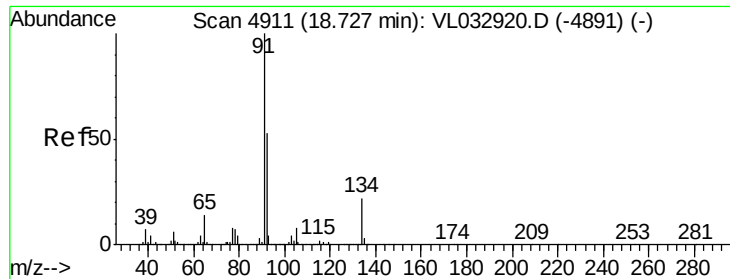
Tgt Ion: 95 Resp: 2185805
 Ion Ratio Lower Upper
 95 100
 174 64.3 51.4 77.0
 175 4.9 3.8 5.6



#69
 p-Isopropyltoluene
 Concen: 0.432 ppbv
 RT: 17.83 min Scan# 4631
 Delta R.T. 0.00 min
 Lab File: VL032923.D
 Acq: 7 Dec 2018 5:34

Tgt Ion: 119 Resp: 173547
 Ion Ratio Lower Upper
 119 100
 134 24.9 20.2 30.2
 91 32.3 22.9 34.3





#70

n-Butylbenzene

Concen: 0.418 ppbv

RT: 18.72 min Scan# 4910

Delta R.T. -0.00 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

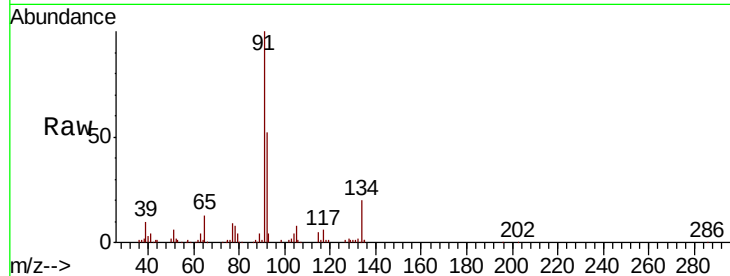
Tgt Ion: 91 Resp: 165012

Ion Ratio Lower Upper

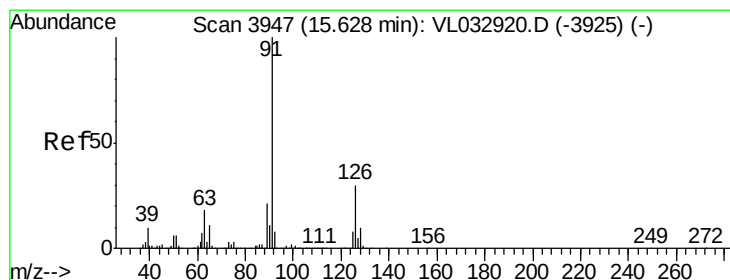
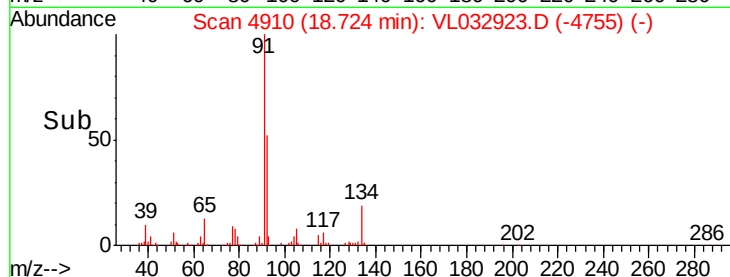
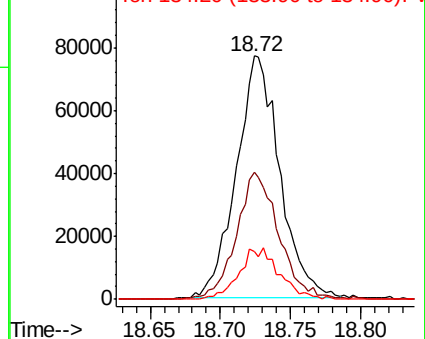
91 100

92 51.8 42.7 64.1

134 20.0 18.0 27.0



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0
Ion 134.20 (133.90 to 134.90): V



#71

2-Chlorotoluene

Concen: 0.389 ppbv

RT: 15.62 min Scan# 3946

Delta R.T. -0.00 min

Lab File: VL032923.D

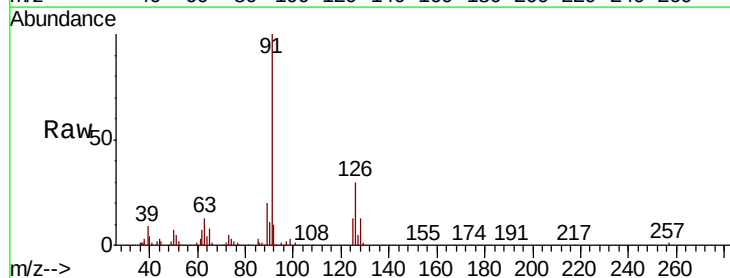
Acq: 7 Dec 2018 5:34

Tgt Ion: 91 Resp: 116719

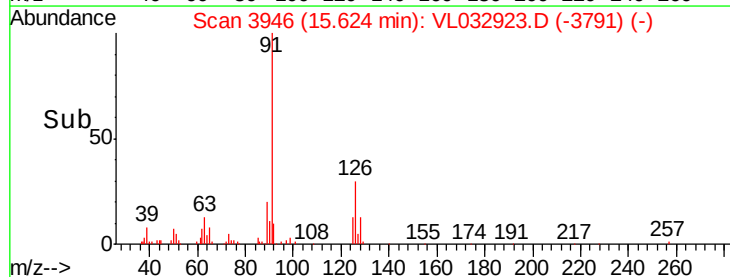
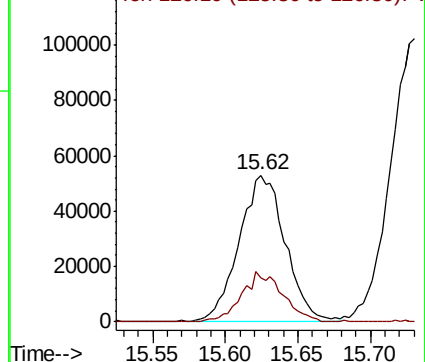
Ion Ratio Lower Upper

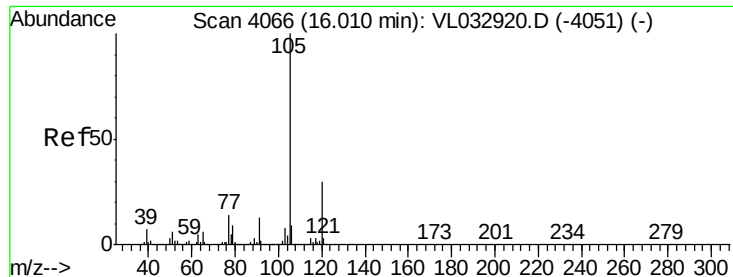
91 100

126 30.5 12.3 49.3



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 126.10 (125.80 to 126.80): V





#72

4-Ethyltoluene

Concen: 0.362 ppbv

RT: 16.01 min Scan# 4065

Delta R.T. -0.00 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

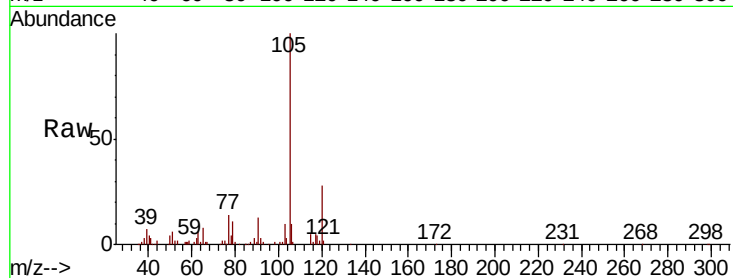
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:	105	Resp:	111889
Ion	Ratio	Lower	Upper
105	100		
120	31.5	23.0	34.4
91	16.9	10.4	15.6#
77	16.8	11.0	16.4#

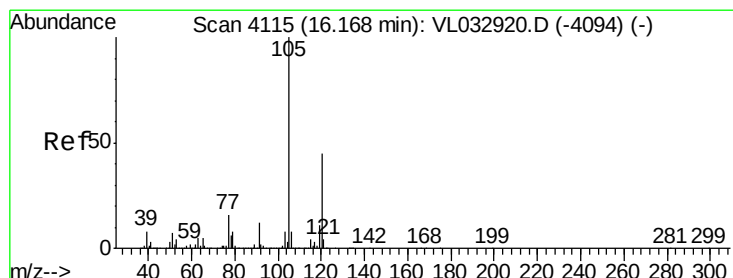
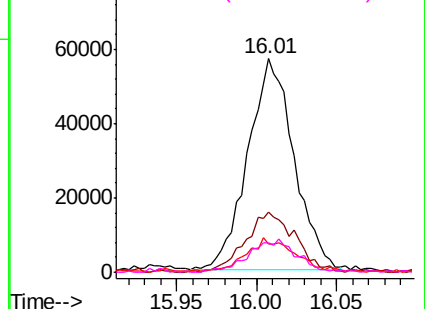
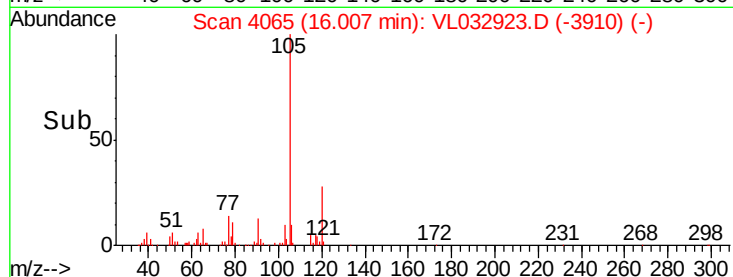


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 0.419 ppbv

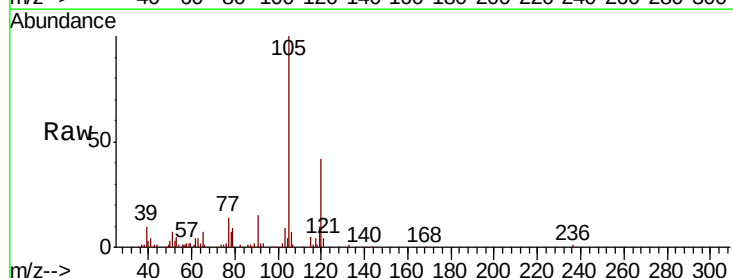
RT: 16.17 min Scan# 4115

Delta R.T. 0.00 min

Lab File: VL032923.D

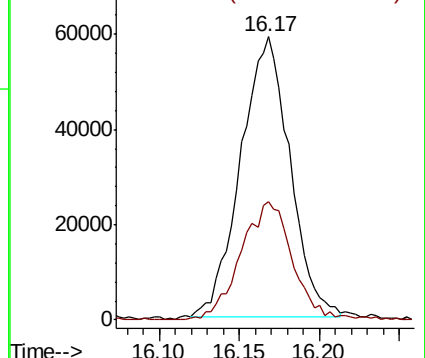
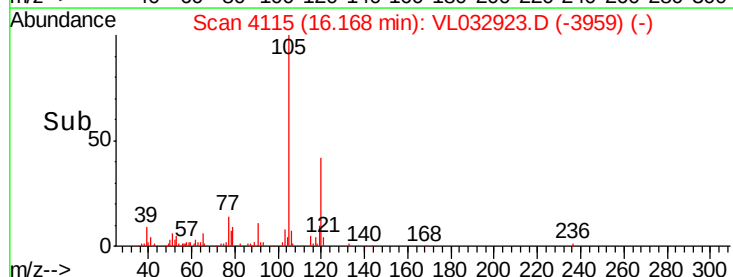
Acq: 7 Dec 2018 5:34

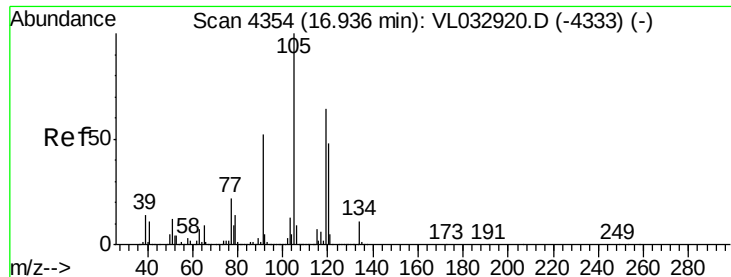
Tgt Ion:	105	Resp:	124568
Ion	Ratio	Lower	Upper
105	100		
120	41.5	36.0	54.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#74

1,2,4-Trimethylbenzene

Concen: 0.509 ppbv

RT: 16.93 min Scan# 4352

Delta R.T. -0.01 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:105 Resp: 164747

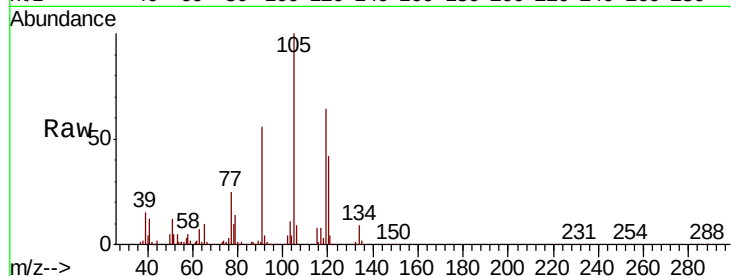
Ion Ratio Lower Upper

105 100

120 40.4 38.6 58.0

91 54.7 41.7 62.5

77 24.6 17.4 26.2

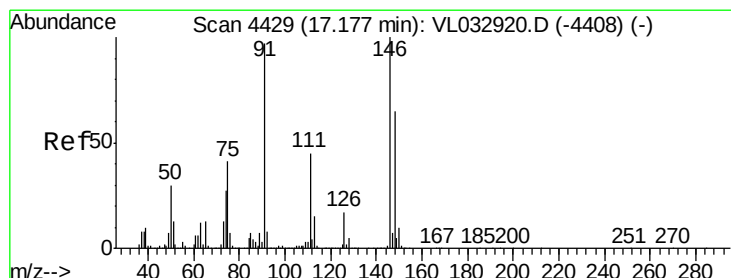
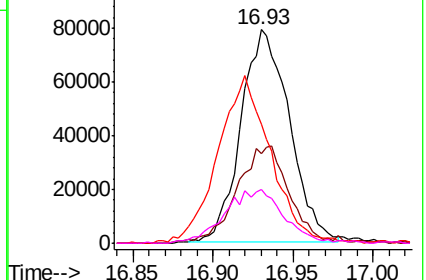
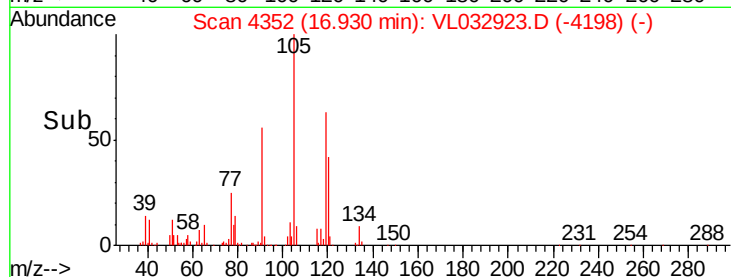


Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.517 ppbv

RT: 17.17 min Scan# 4428

Delta R.T. -0.00 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

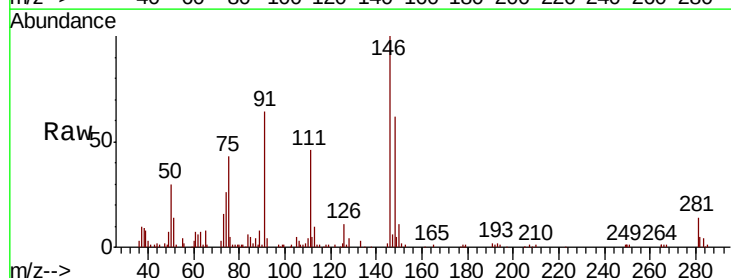
Tgt Ion:146 Resp: 97941

Ion Ratio Lower Upper

146 100

111 52.2 23.6 70.8

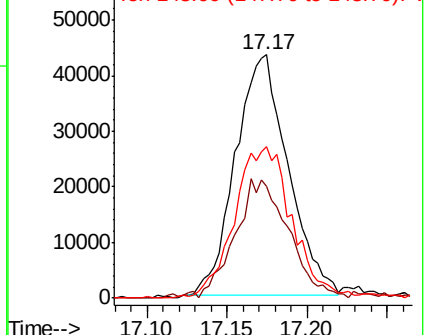
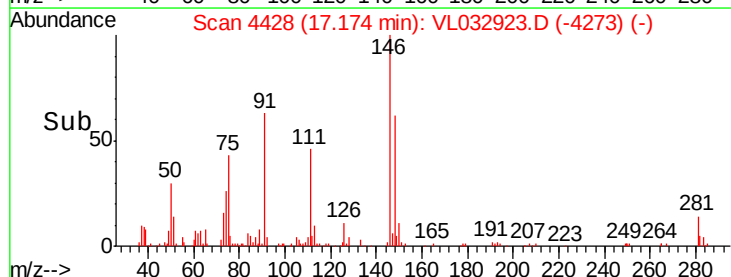
148 69.3 32.1 96.3

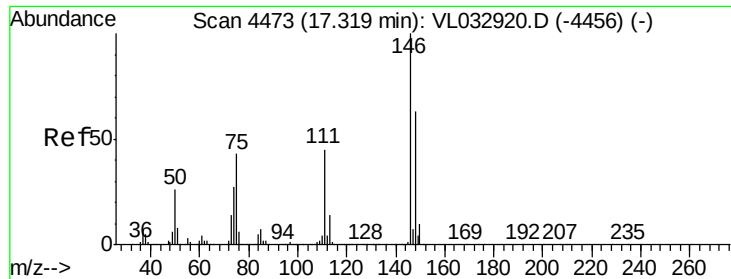


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

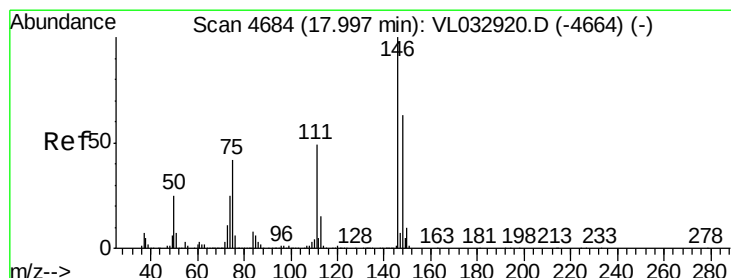
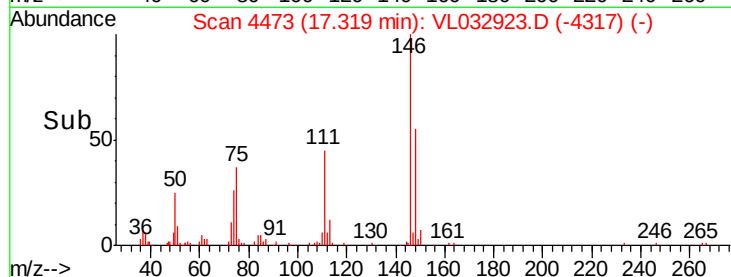
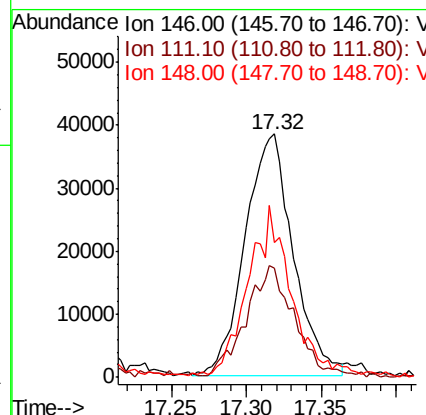
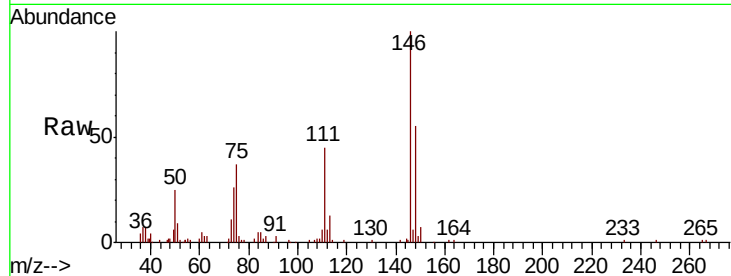




#76
 1,4-Dichlorobenzene
 Concen: 0.484 ppbv
 RT: 17.32 min Scan# 4473
 Delta R.T. 0.00 min
 Lab File: VL032923.D
 Acq: 7 Dec 2018 5:34

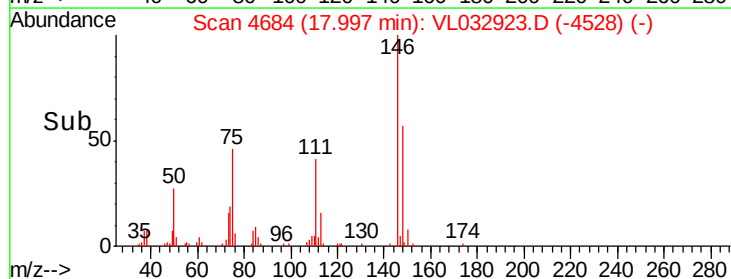
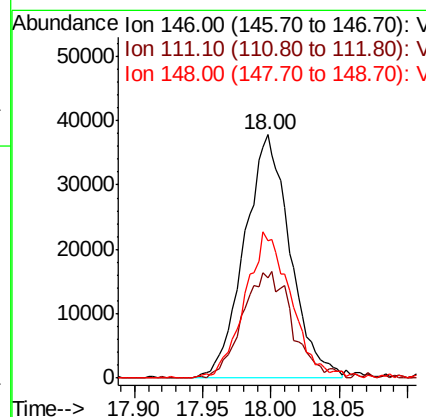
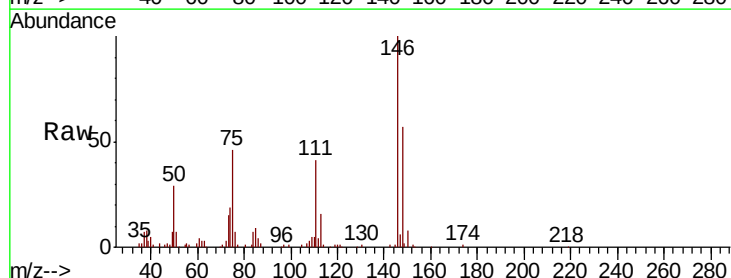
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

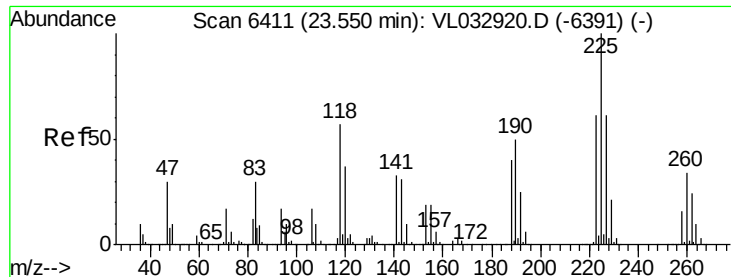
Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.8	22.8	68.4
148	66.2	32.0	96.2



#77
 1,2-Dichlorobenzene
 Concen: 0.494 ppbv
 RT: 18.00 min Scan# 4684
 Delta R.T. 0.00 min
 Lab File: VL032923.D
 Acq: 7 Dec 2018 5:34

Tgt Ion	Ratio	Lower	Upper
146	100		
111	48.3	24.3	72.9
148	60.6	32.0	96.2





#78

Hexachloro-1,3-Butadiene

Concen: 0.511 ppbv

RT: 23.55 min Scan# 6411

Delta R.T. 0.00 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

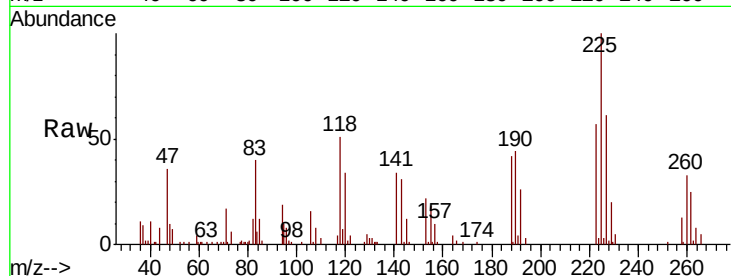
Tgt Ion:225 Resp: 57654

Ion Ratio Lower Upper

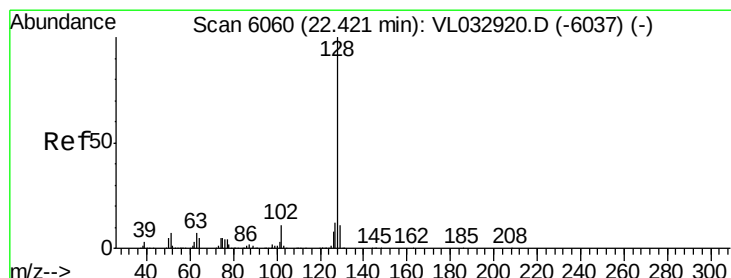
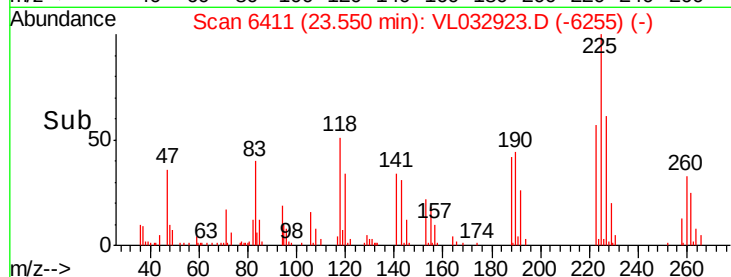
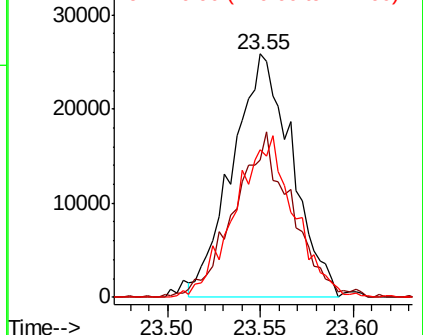
225 100

223 65.7 50.6 75.8

227 65.9 50.4 75.6



Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V



#79

Naphthalene

Concen: 0.253 ppbv

RT: 22.42 min Scan# 6061

Delta R.T. 0.00 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

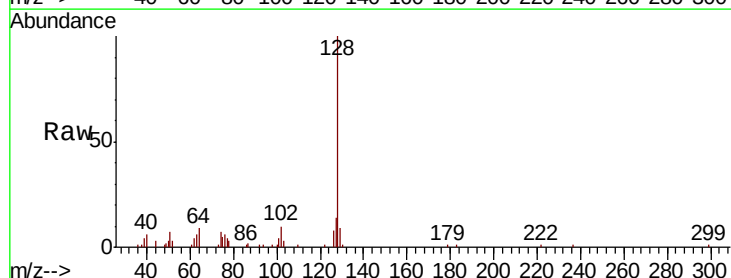
Tgt Ion:128 Resp: 48398

Ion Ratio Lower Upper

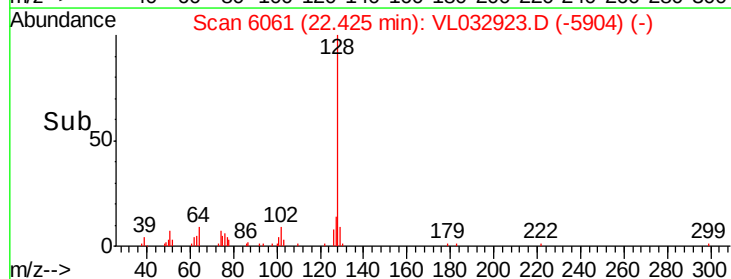
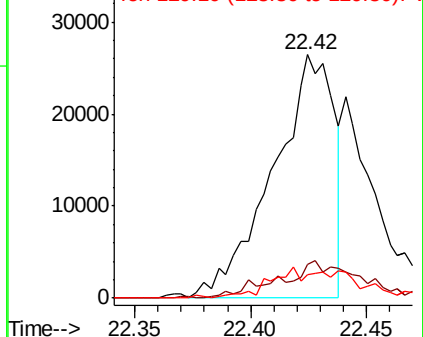
128 100

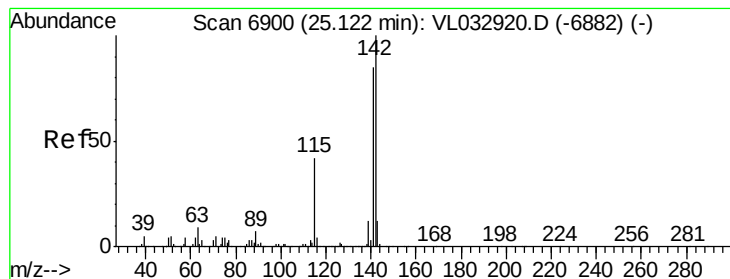
127 12.9 9.9 14.9

129 9.4 8.6 13.0



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: 0.257 ppbv

RT: 25.12 min Scan# 6900

Delta R.T. 0.00 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

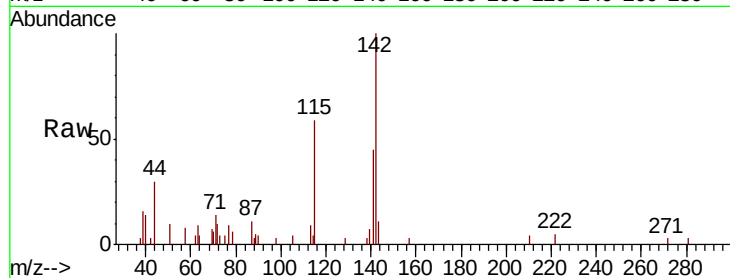
Tgt Ion:142 Resp: 10990

Ion Ratio Lower Upper

142 100

141 81.3 68.2 102.2

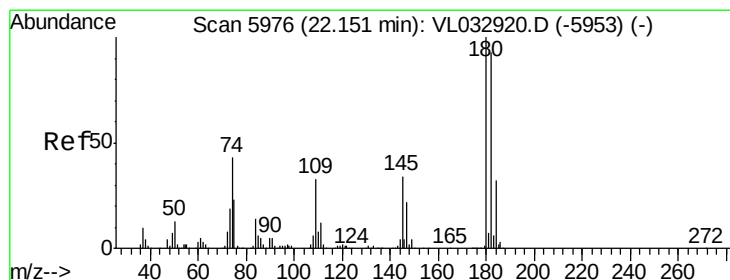
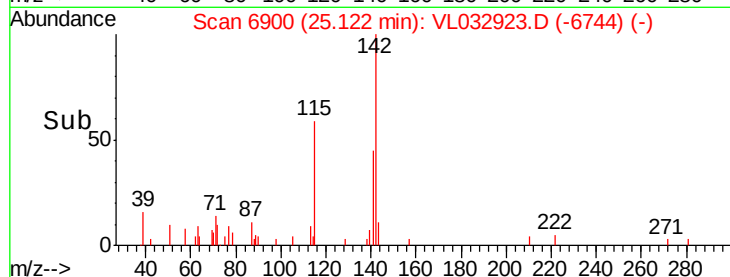
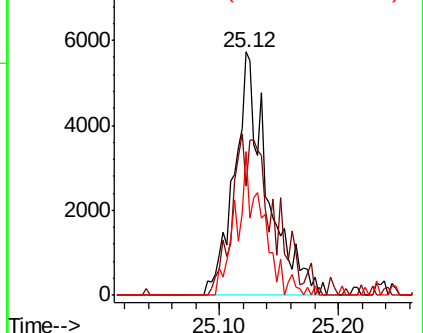
115 47.5 35.1 52.7



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V



#81

1,2,4-Trichlorobenzene

Concen: 0.189 ppbv

RT: 22.14 min Scan# 5973

Delta R.T. -0.01 min

Lab File: VL032923.D

Acq: 7 Dec 2018 5:34

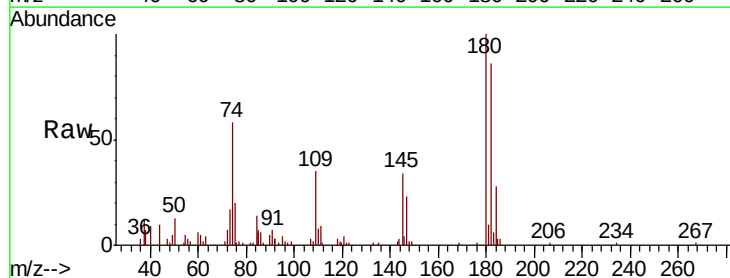
Tgt Ion:180 Resp: 19050

Ion Ratio Lower Upper

180 100

182 0.0 77.0 115.6#

184 0.0 24.3 36.5#



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

