

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120718\
 Data File : VL032924.D
 Acq On : 7 Dec 2018 6:11
 Operator : SY/AP
 Sample : VSTDIC0.1
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Quant Time: Dec 07 07:14:09 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	1283136	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3045142	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2829263	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2129443	10.31	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.10%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.02	51	11574	0.116	ppbv	99
4) Chloromethane	3.17	50	12424	0.211	ppbv	91
5) Vinyl Chloride	3.30	62	5960	0.103	ppbv	93
6) Bromomethane	3.52	94	1809	0.048	ppbv #	61
7) Chloroethane	3.60	64	1193	0.053	ppbv #	81
8) Dichlorotetrafluoroethane	3.22	85	15535	0.108	ppbv	98
9) Propene	3.04	41	2364	0.059	ppbv #	26
10) Heptane	8.26	43	5024	0.033	ppbv #	26
11) Trichlorofluoromethane	4.01	101	19514	0.112	ppbv	89
12) 1,1,2-Trichlorotrifluoroet	4.56	101	15382	0.116	ppbv	93
13) Ethanol	3.67	45	758	0.056	ppbv #	60
14) Bromoethene	3.80	108	2700	0.056	ppbv #	29
15) Acetone	3.93	43	8045	0.070	ppbv #	49
16) 1,3-Butadiene	3.37	39	4972	0.109	ppbv	97
18) 1,1-Dichloroethene	4.36	96	8774	0.153	ppbv #	70
19) Isopropyl Alcohol	4.07	45	5717	0.069	ppbv #	94
20) Methylene Chloride	4.41	84	18884	0.293	ppbv #	89
21) Allyl Chloride	4.48	41	10365	0.123	ppbv	91
22) trans-1,2-Dichloroethene	4.97	96	7917	0.114	ppbv #	75
23) Vinyl Acetate	5.17	43	9538	0.044	ppbv #	90
24) 1,1-Dichloroethane	5.09	63	17491	0.105	ppbv #	93
25) Ethyl Acetate	5.79	43	28033	0.104	ppbv #	94
26) Hexane	5.79	57	6639	0.052	ppbv #	1
27) Carbon Disulfide	4.63	76	15321	0.095	ppbv #	24
28) Methyl tert-Butyl Ether	5.14	73	14766	0.073	ppbv #	90
29) Chloroform	5.85	83	10326	0.049	ppbv	99
30) Cyclohexane	7.25	84	3555	0.034	ppbv #	1
31) cis-1,2-Dichloroethene	5.65	61	6790	0.059	ppbv #	66
32) 1,1,1-Trichloroethane	6.63	97	11264	0.048	ppbv #	22
34) 2-Butanone	5.36	43	7724	0.051	ppbv #	55
35) Carbon Tetrachloride	7.14	117	18207	0.080	ppbv	87
36) Benzene	7.01	78	20545	0.086	ppbv #	86
37) 1,2-Dichloroethane	6.41	62	16405	0.107	ppbv #	92
38) Trichloroethene	7.96	130	3728	0.039	ppbv	89
39) 1,2-Dichloropropane	7.29	63	754374	8.627	ppbv #	20
42) Bromodichloromethane	7.92	83	23483	0.110	ppbv #	96
44) 2,2,4-Trimethylpentane	8.00	57	15353	0.039	ppbv #	42
47) 1,1,2-Trichloroethane	9.61	97	4606	0.045	ppbv #	76
48) Dibromochloromethane	10.45	129	9336	0.049	ppbv #	34
49) Bromoform	13.20	173	6677	0.042	ppbv #	36
53) Toluene	9.95	91	9550	0.035	ppbv #	64

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Quant Time: Dec 07 07:14:09 2018
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 QLast Update : Fri Dec 07 05:41:55 2018
 Response via : Initial Calibration

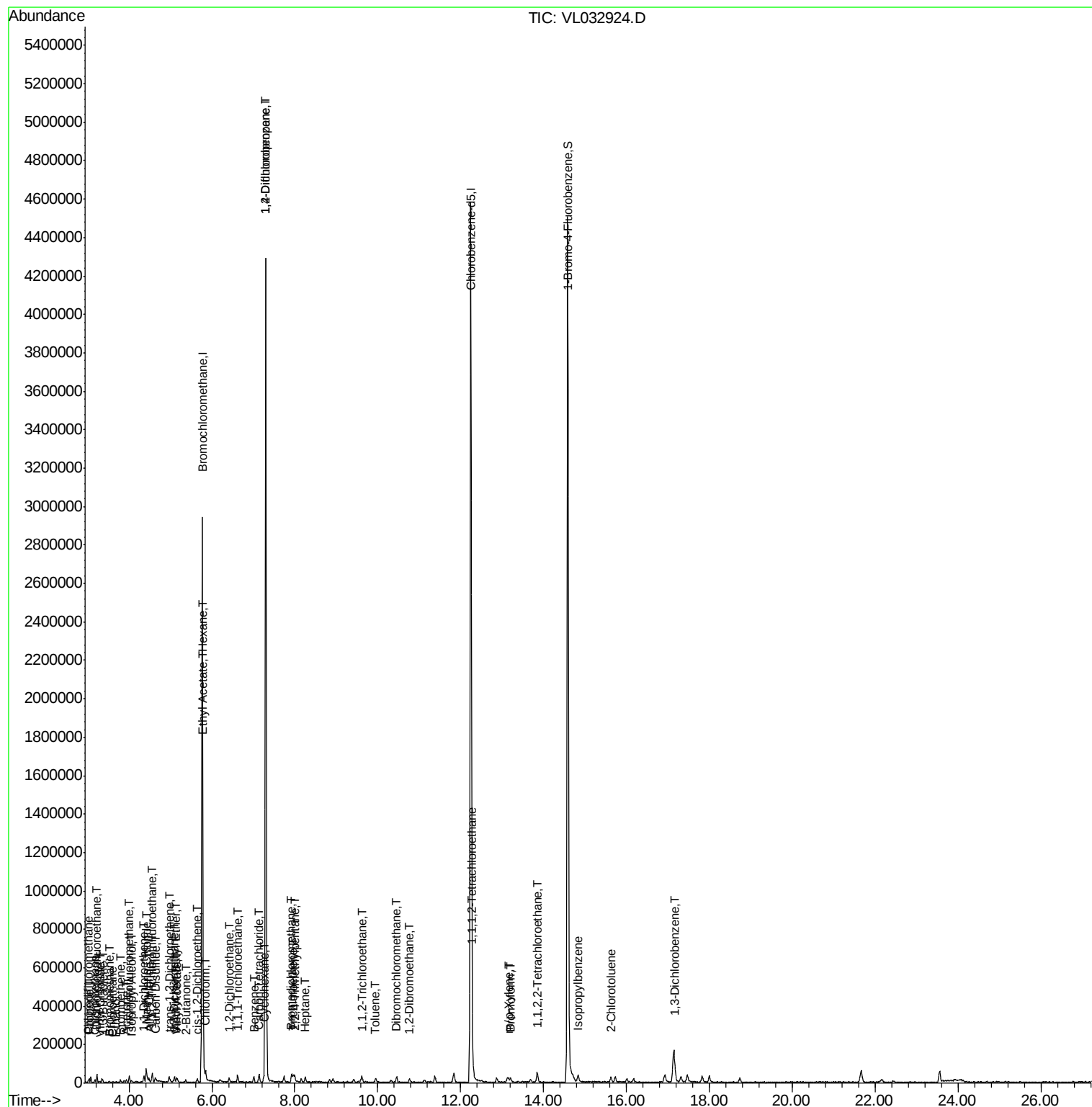
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) 1,2-Dibromoethane	10.76	107	6840	0.044	ppbv	90
56) 1,1,1,2-Tetrachloroethane	12.29	131	8971	0.070	ppbv #	27
59) m/p-Xylene	13.16	91	9705	0.033	ppbv #	100
62) Isopropylbenzene	14.83	105	22540	0.056	ppbv #	89
63) 1,1,2,2-Tetrachloroethane	13.84	83	10858	0.051	ppbv #	31
71) 2-Chlorotoluene	15.62	91	14552	0.050	ppbv	94
75) 1,3-Dichlorobenzene	17.17	146	11448	0.062	ppbv #	35

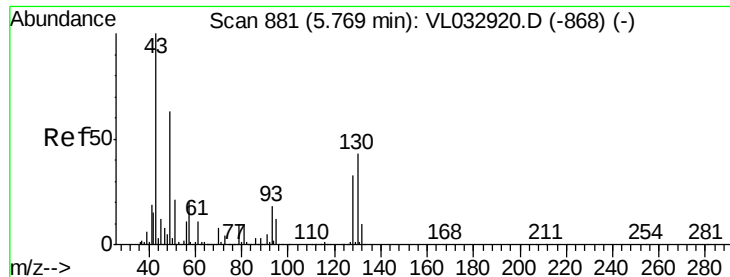
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Dec 07 05:41:55 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL032924.D

Acq: 7 Dec 2018 6:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

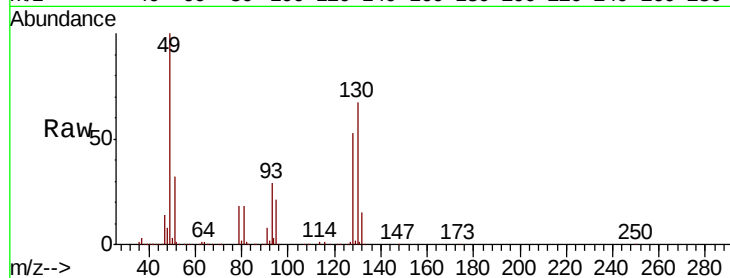
Tgt Ion: 49 Resp: 1283136

Ion Ratio Lower Upper

49 100

128 52.4 26.3 78.8

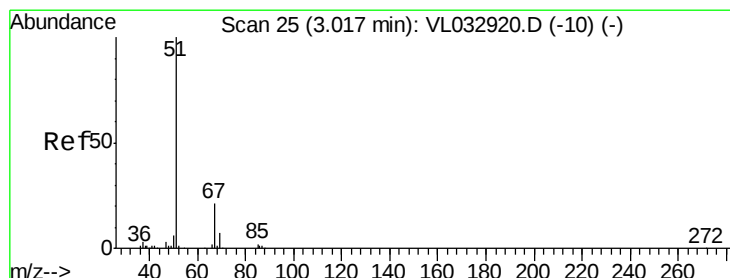
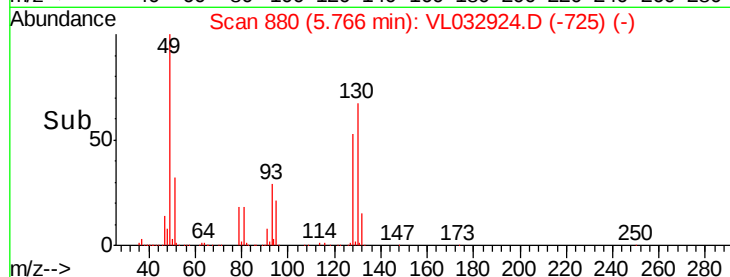
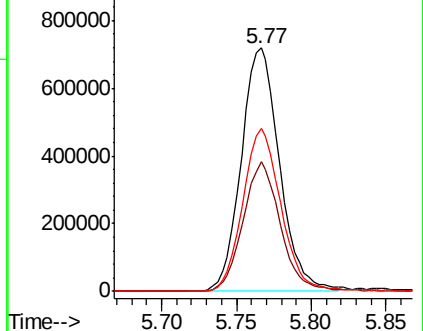
130 67.3 33.9 101.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.116 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL032924.D

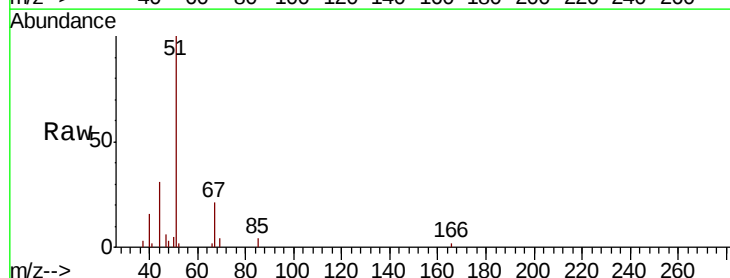
Acq: 7 Dec 2018 6:11

Tgt Ion: 51 Resp: 11574

Ion Ratio Lower Upper

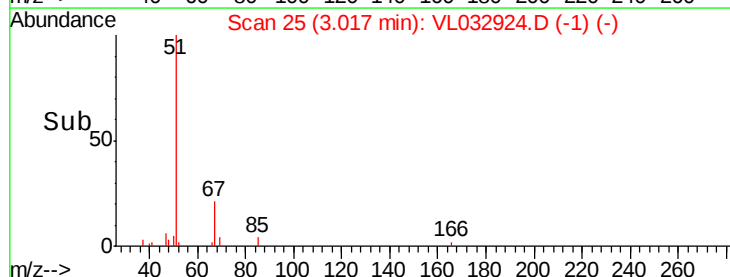
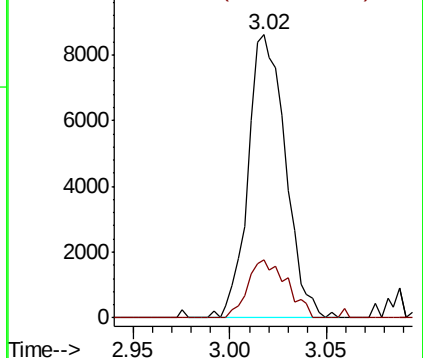
51 100

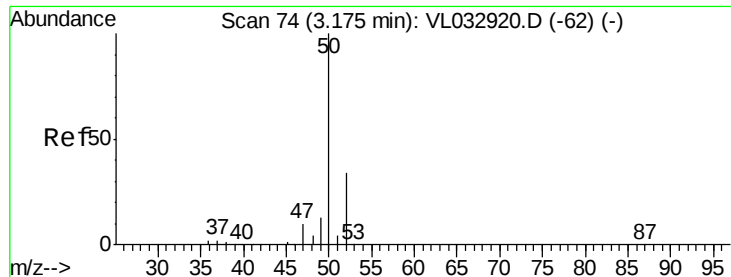
67 21.5 16.8 25.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.211 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL032924.D

Acq: 7 Dec 2018 6:11

Instrument :

MSVOA_L

ClientSampleId :

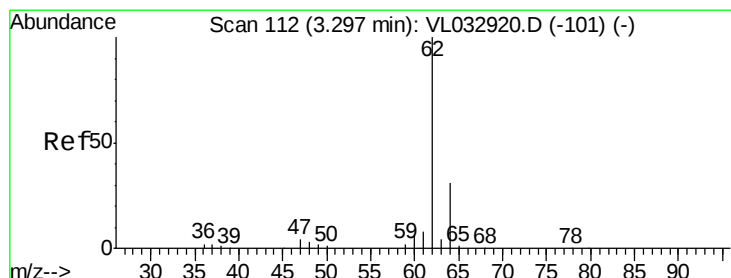
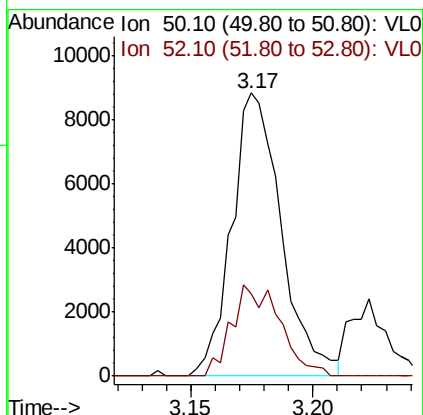
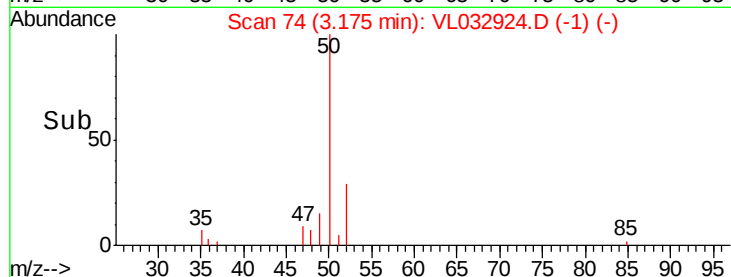
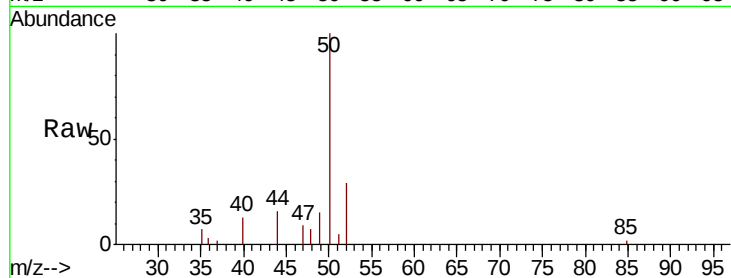
VSTDIC0.1

Tgt Ion: 50 Resp: 12424

Ion Ratio Lower Upper

50 100

52 28.9 27.3 40.9



#5

Vinyl Chloride

Concen: 0.103 ppbv

RT: 3.30 min Scan# 113

Delta R.T. 0.00 min

Lab File: VL032924.D

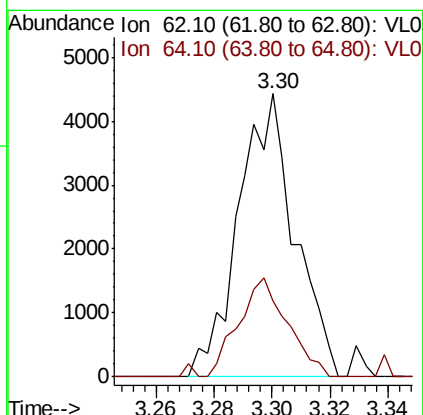
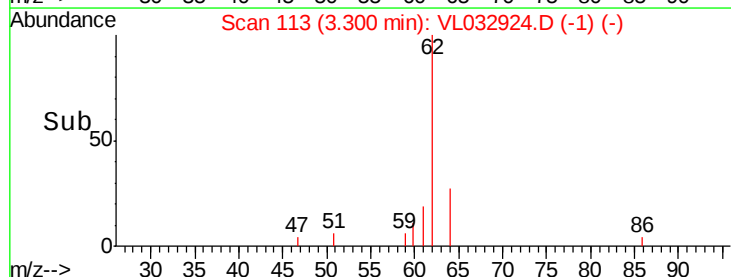
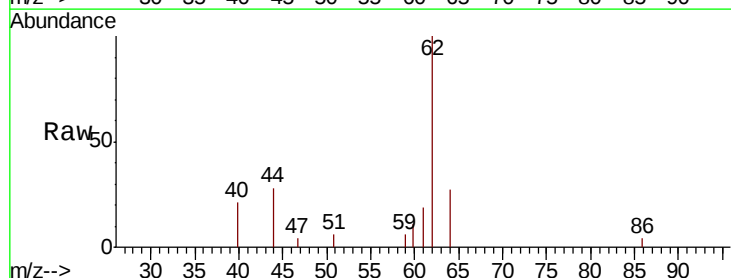
Acq: 7 Dec 2018 6:11

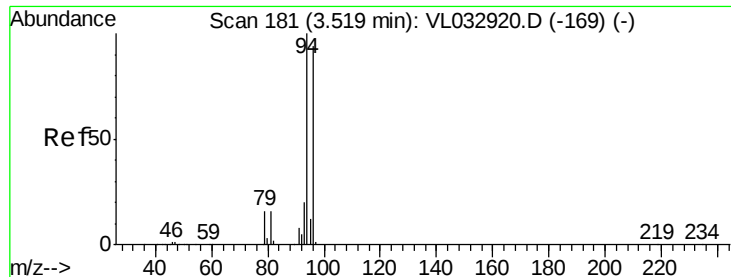
Tgt Ion: 62 Resp: 5960

Ion Ratio Lower Upper

62 100

64 27.0 24.8 37.2





#6

Bromomethane

Concen: 0.048 ppbv

RT: 3.52 min Scan# 180

Delta R.T. -0.00 min

Lab File: VL032924.D

Acq: 7 Dec 2018 6:11

Instrument :

MSVOA_L

ClientSampleId :

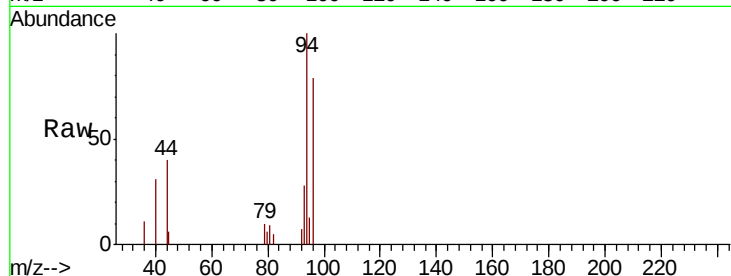
VSTDIC0.1

Tgt Ion: 94 Resp: 1809

Ion Ratio Lower Upper

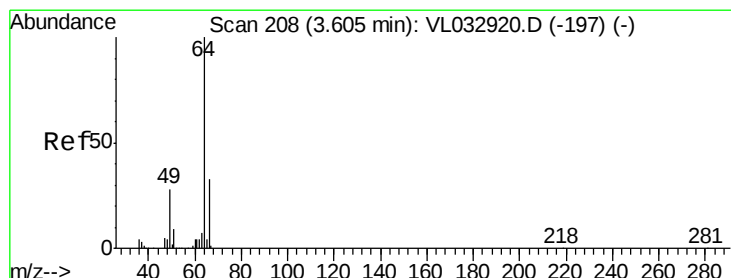
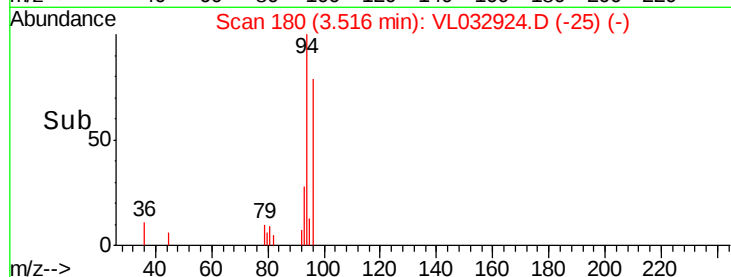
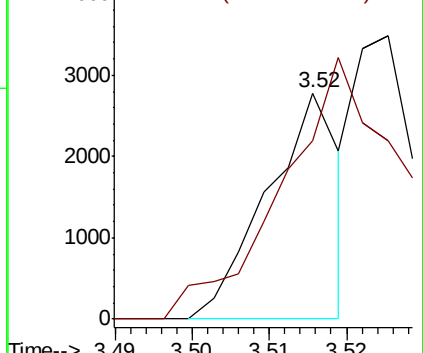
94 100

96 56.4 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: 0.053 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.01 min

Lab File: VL032924.D

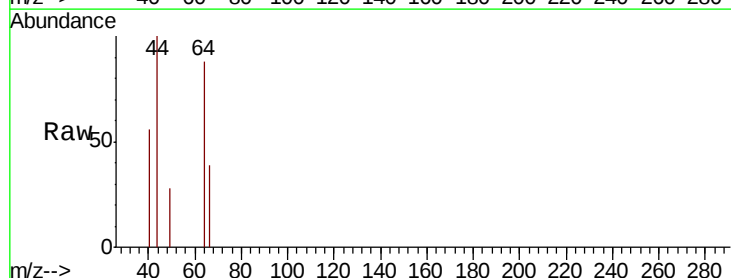
Acq: 7 Dec 2018 6:11

Tgt Ion: 64 Resp: 1193

Ion Ratio Lower Upper

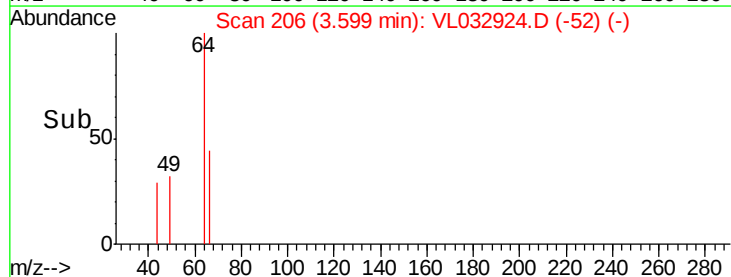
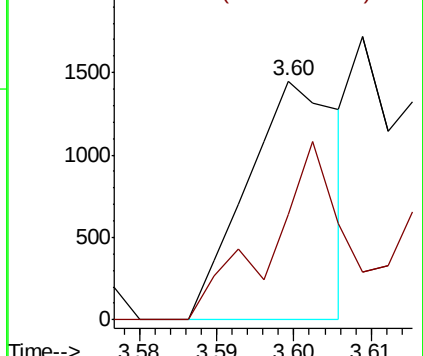
64 100

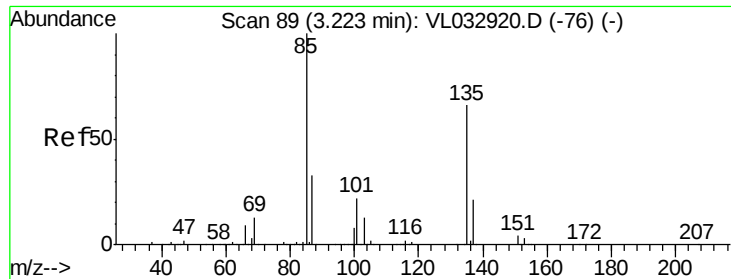
66 44.2 26.6 40.0#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.108 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.00 min

Lab File: VL032924.D

Acq: 7 Dec 2018 6:11

Instrument :

MSVOA_L

ClientSampleId :

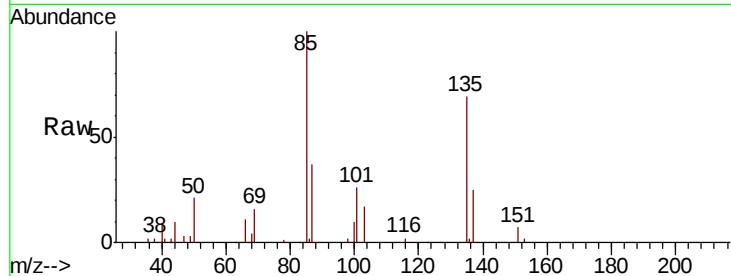
VSTDIC0.1

Tgt Ion: 85 Resp: 15535

Ion Ratio Lower Upper

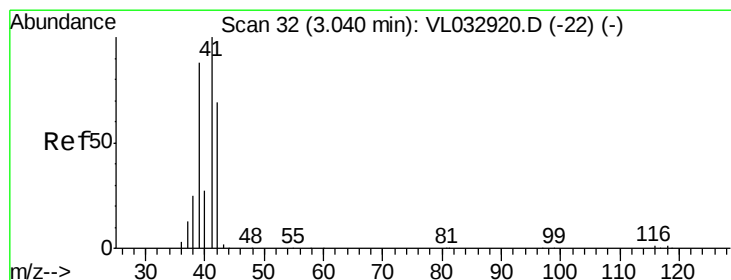
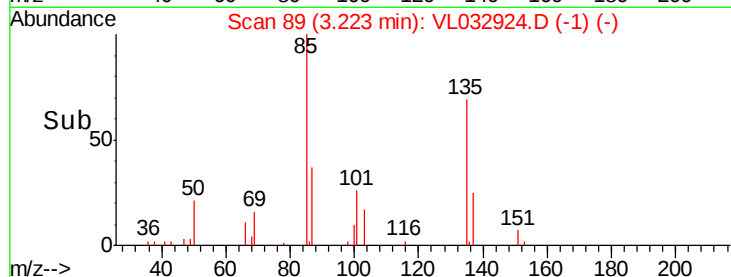
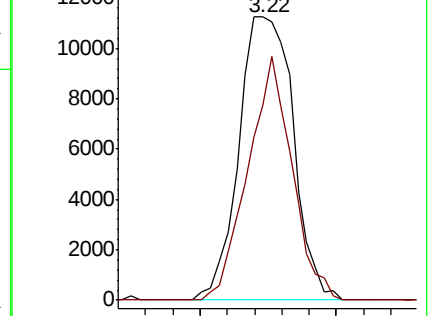
85 100

135 69.8 54.5 81.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0



#9

Propene

Concen: 0.059 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

Lab File: VL032924.D

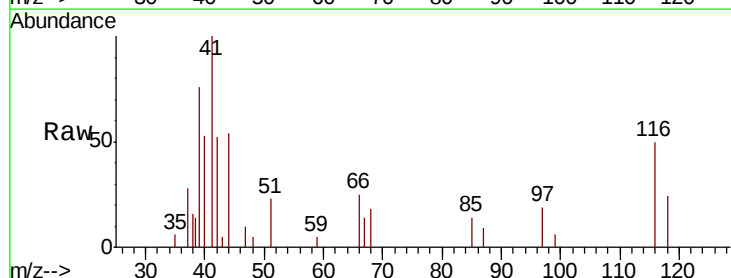
Acq: 7 Dec 2018 6:11

Tgt Ion: 41 Resp: 2364

Ion Ratio Lower Upper

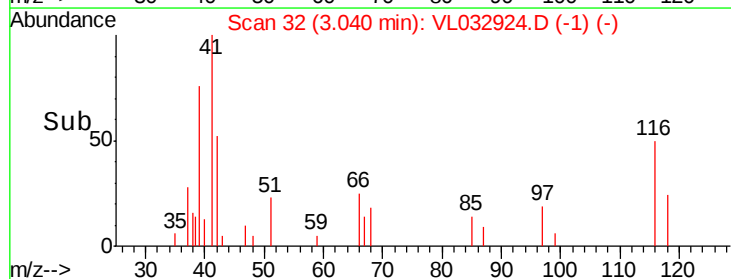
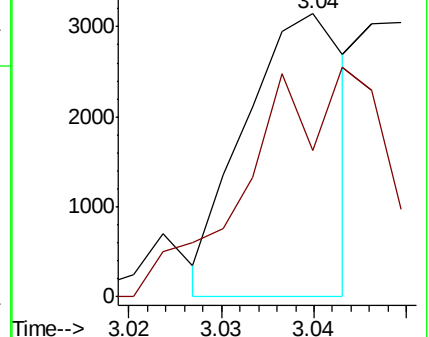
41 100

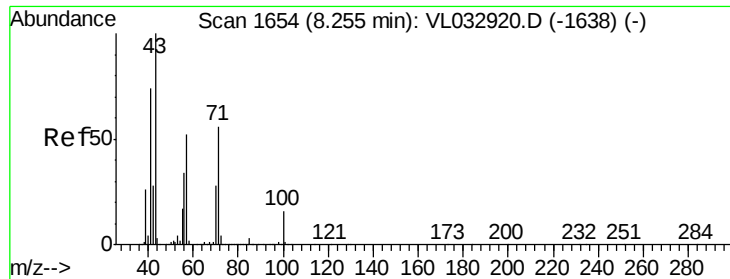
42 130.8 56.2 84.2#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.033 ppbv

RT: 8.26 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VL032924.D

Acq: 7 Dec 2018 6:11

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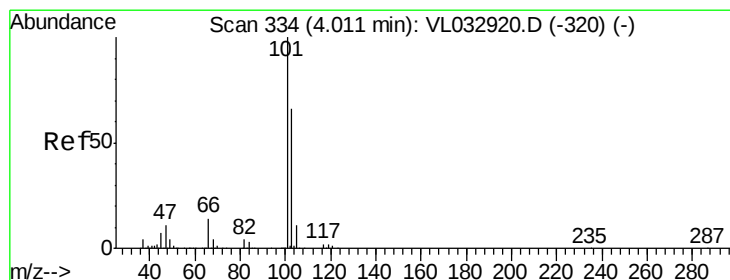
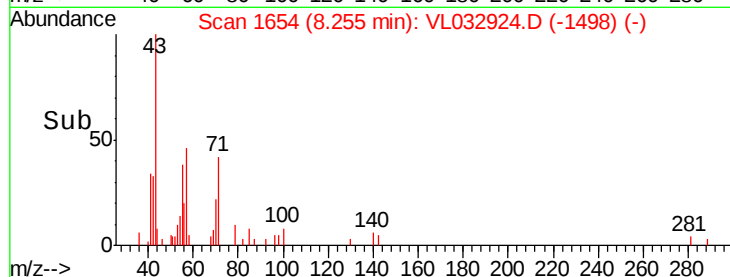
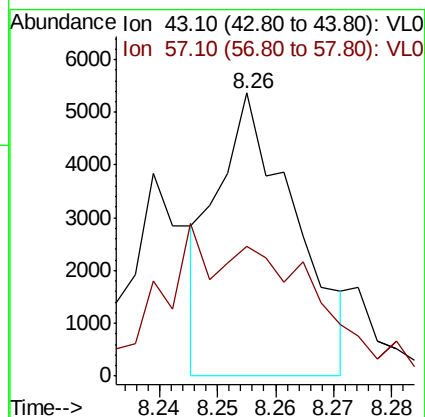
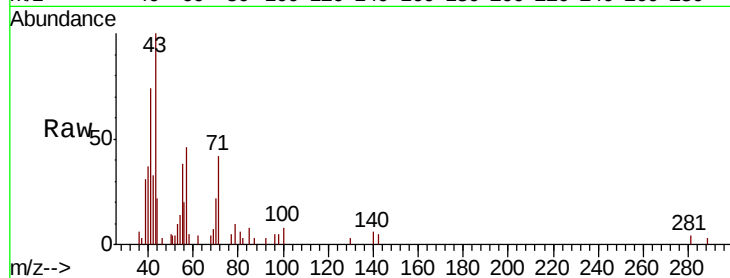
VSTDIC0.1

Tgt Ion: 43 Resp: 5024

Ion Ratio Lower Upper

43 100

57 0.0 41.8 62.6#



#11

Trichlorofluoromethane

Concen: 0.112 ppbv

RT: 4.01 min Scan# 333

Delta R.T. -0.00 min

Lab File: VL032924.D

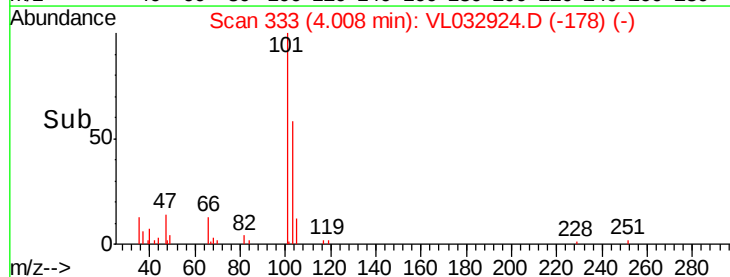
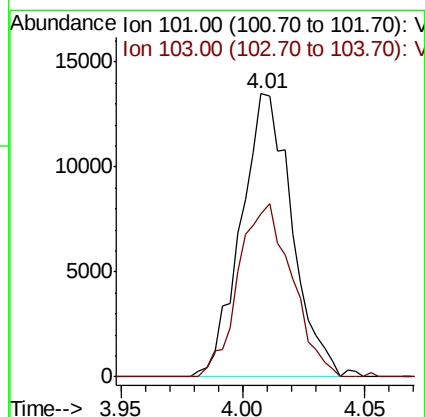
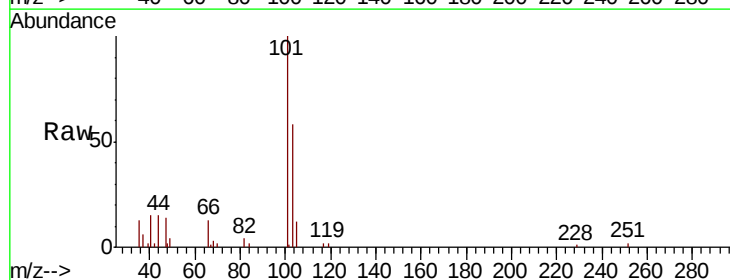
Acq: 7 Dec 2018 6:11

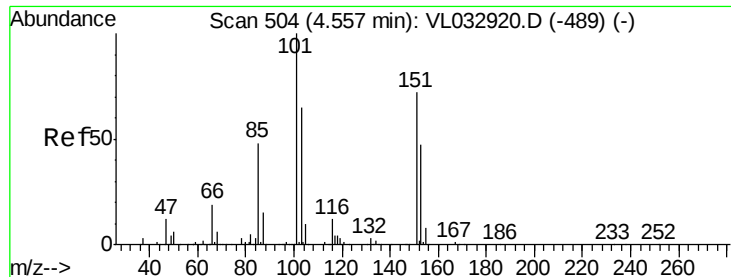
Tgt Ion: 101 Resp: 19514

Ion Ratio Lower Upper

101 100

103 56.9 52.7 79.1





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.116 ppbv

RT: 4.56 min Scan# 504

Delta R.T. 0.00 min

Lab File: VL032924.D

Acq: 7 Dec 2018 6:11

Instrument :

MSVOA_L

ClientSampleId :

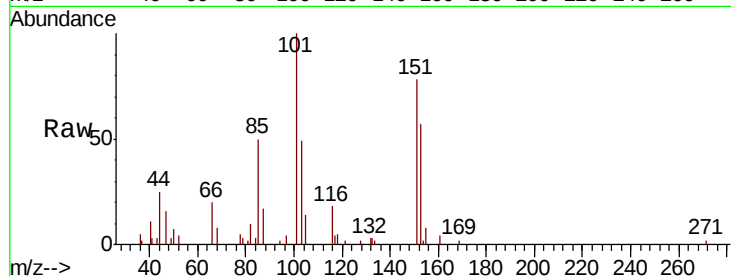
VSTDIC0.1

Tgt Ion:101 Resp: 15382

Ion Ratio Lower Upper

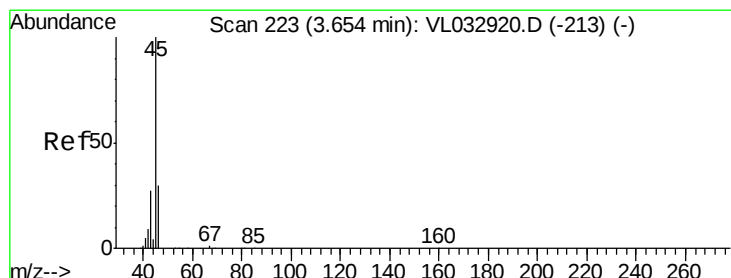
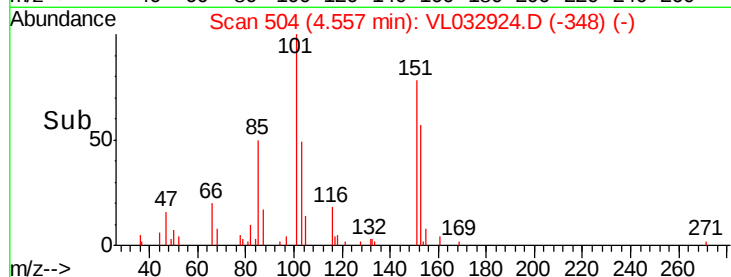
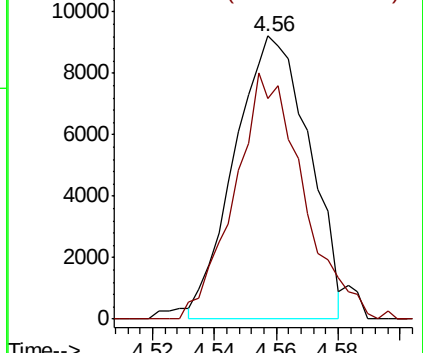
101 100

151 80.3 59.3 88.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 0.056 ppbv

RT: 3.67 min Scan# 229

Delta R.T. 0.02 min

Lab File: VL032924.D

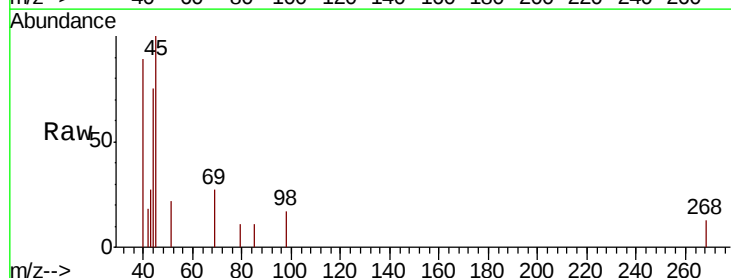
Acq: 7 Dec 2018 6:11

Tgt Ion: 45 Resp: 758

Ion Ratio Lower Upper

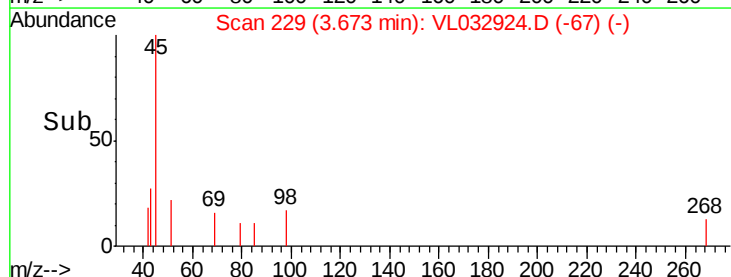
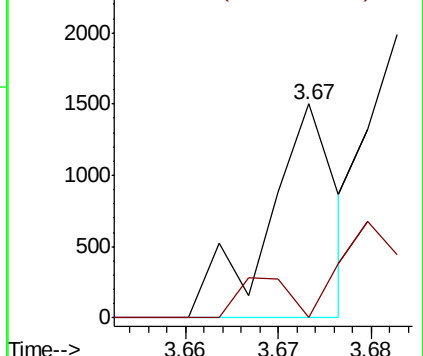
45 100

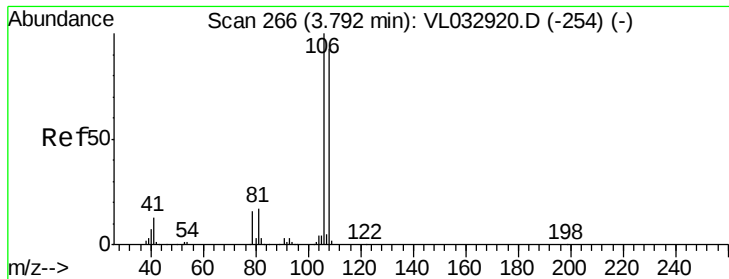
46 11.7 13.8 55.4#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#14

Bromoethene

Concen: 0.056 ppbv

RT: 3.80 min Scan# 267

Delta R.T. 0.00 min

Lab File: VL032924.D

Acq: 7 Dec 2018 6:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

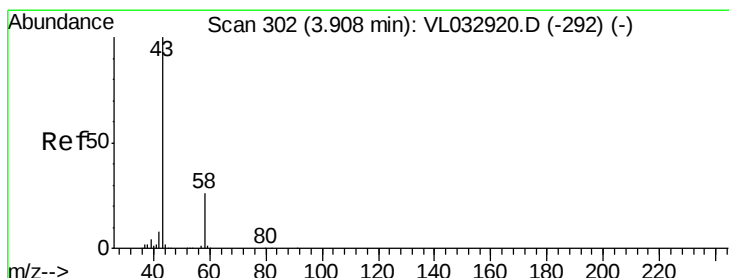
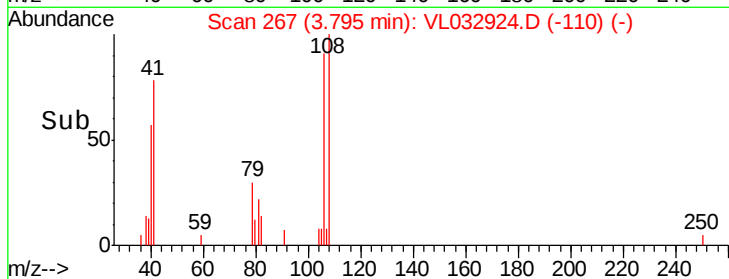
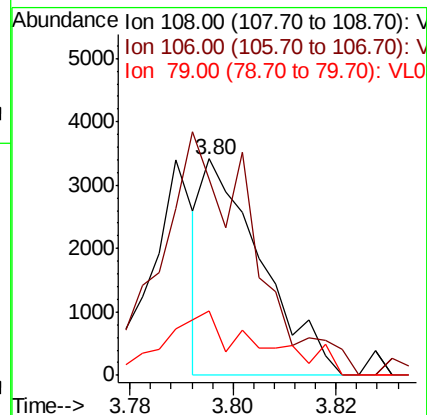
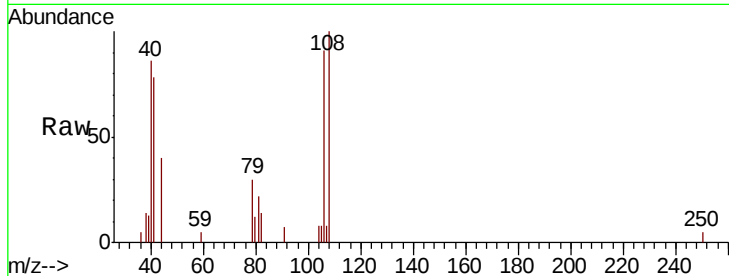
Tgt Ion: 108 Resp: 2700

Ion Ratio Lower Upper

108 100

106 181.1 85.4 128.2#

79 49.0 14.6 21.8#



#15

Acetone

Concen: 0.070 ppbv

RT: 3.93 min Scan# 309

Delta R.T. 0.02 min

Lab File: VL032924.D

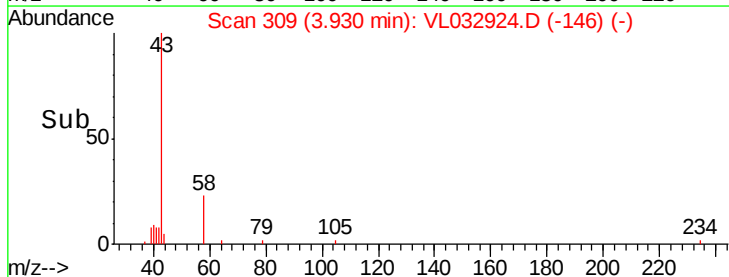
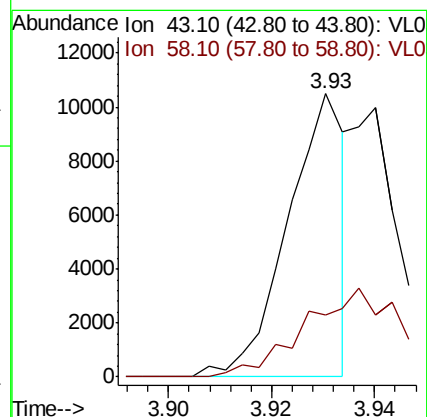
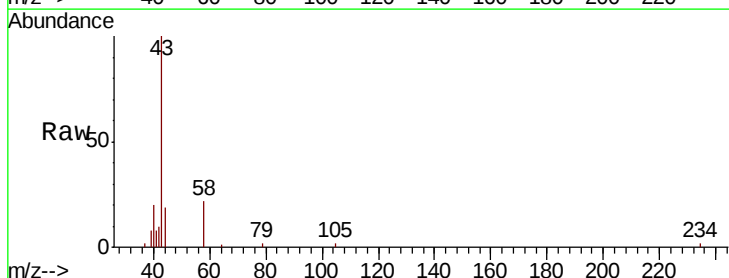
Acq: 7 Dec 2018 6:11

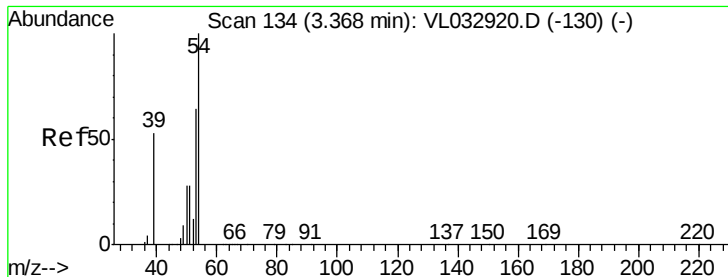
Tgt Ion: 43 Resp: 8045

Ion Ratio Lower Upper

43 100

58 0.0 20.6 30.8#

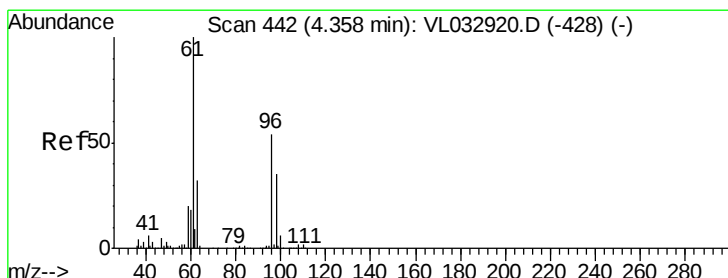
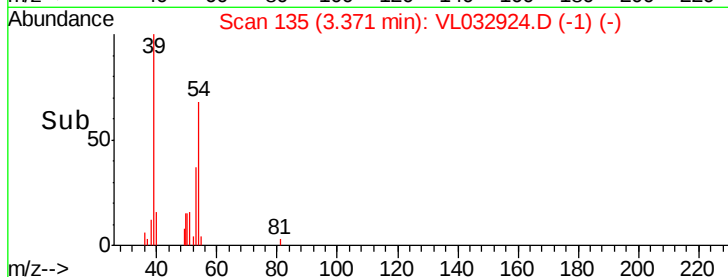
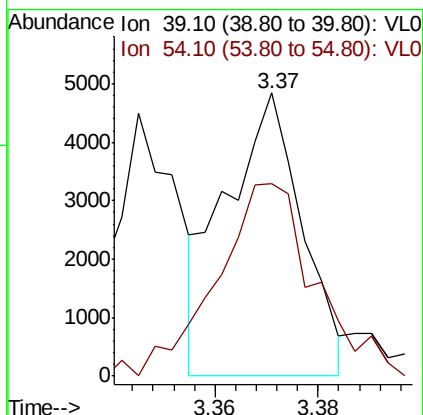
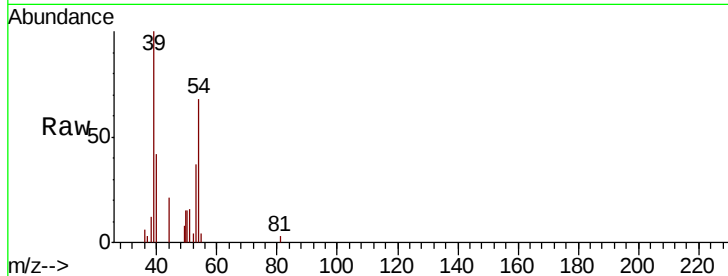




#16
 1,3-Butadiene
 Concen: 0.109 ppbv
 RT: 3.37 min Scan# 135
 Delta R.T. 0.00 min
 Lab File: VL032924.D
 Acq: 7 Dec 2018 6:11

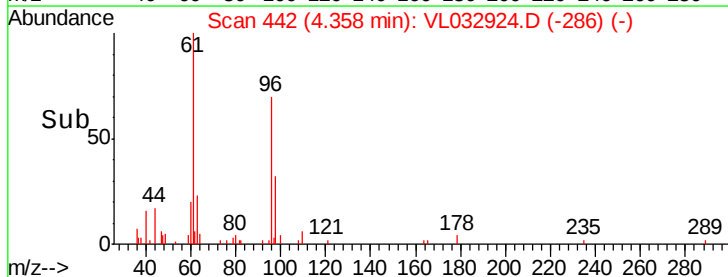
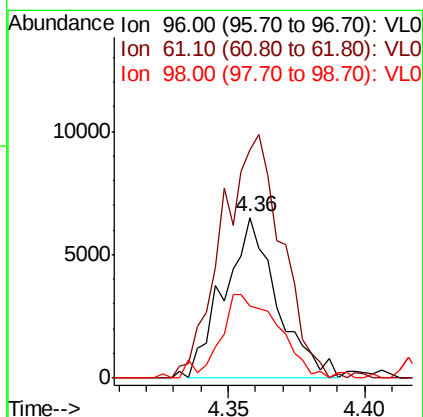
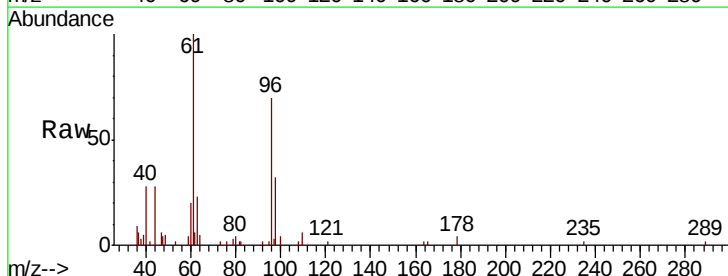
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

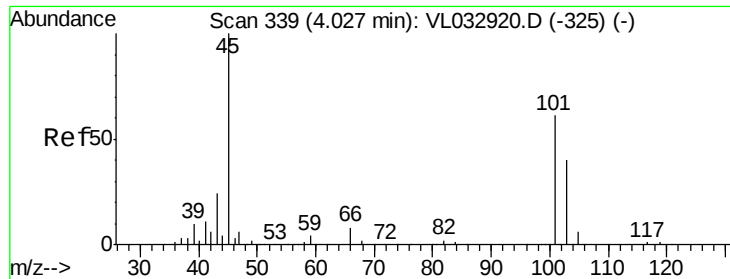
Tgt Ion: 39 Resp: 4972
 Ion Ratio Lower Upper
 39 100
 54 87.9 72.7 109.1



#18
 1,1-Dichloroethene
 Concen: 0.153 ppbv
 RT: 4.36 min Scan# 442
 Delta R.T. 0.00 min
 Lab File: VL032924.D
 Acq: 7 Dec 2018 6:11

Tgt Ion: 96 Resp: 8774
 Ion Ratio Lower Upper
 96 100
 61 139.4 147.0 220.4#
 98 41.8 50.7 76.1#





#19

Isopropyl Alcohol

Concen: 0.069 ppbv

RT: 4.07 min Scan# 352

Delta R.T. 0.04 min

Lab File: VL032924.D

Acq: 7 Dec 2018 6:11

Instrument :

MSVOA_L

ClientSampleId :

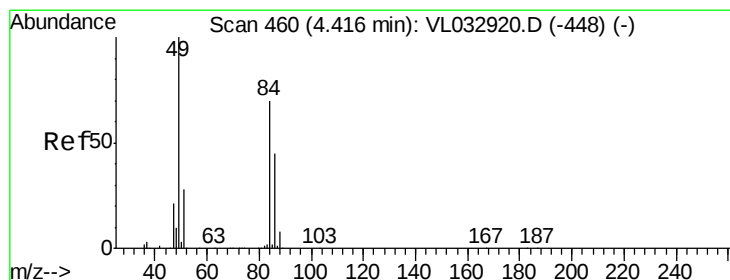
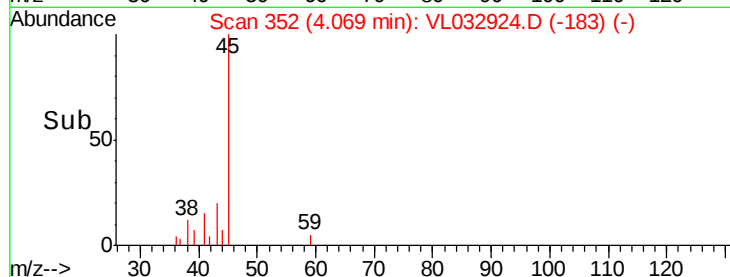
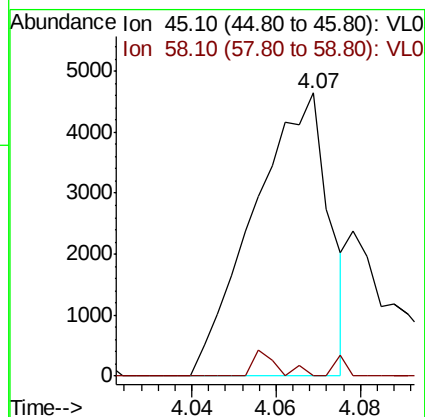
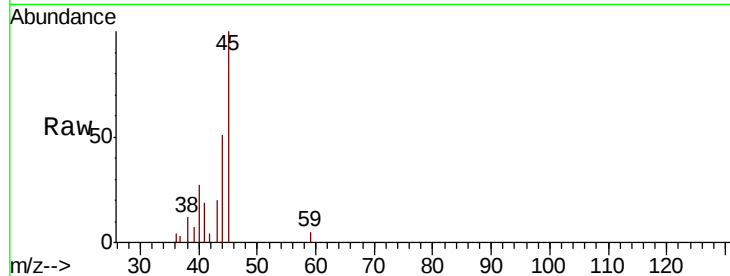
VSTDIC0.1

Tgt Ion: 45 Resp: 5717

Ion Ratio Lower Upper

45 100

58 4.1 1.4 2.2#



#20

Methylene Chloride

Concen: 0.293 ppbv

RT: 4.41 min Scan# 459

Delta R.T. -0.00 min

Lab File: VL032924.D

Acq: 7 Dec 2018 6:11

Tgt Ion: 84 Resp: 18884

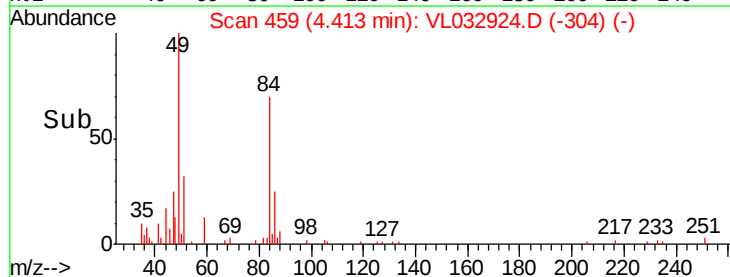
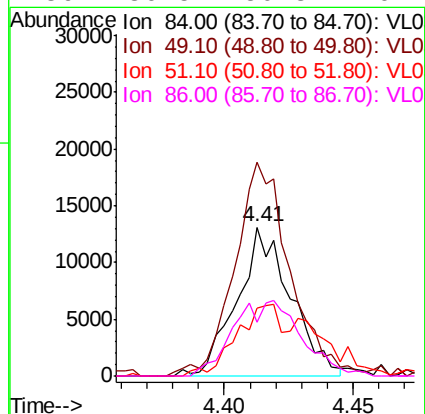
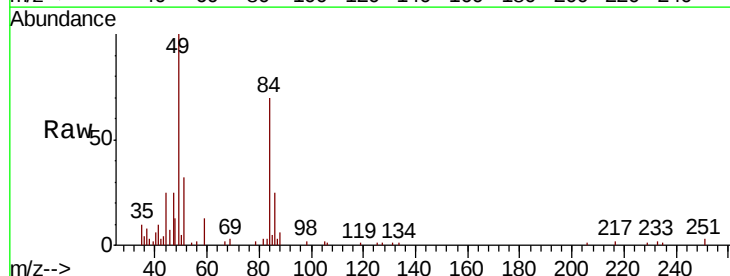
Ion Ratio Lower Upper

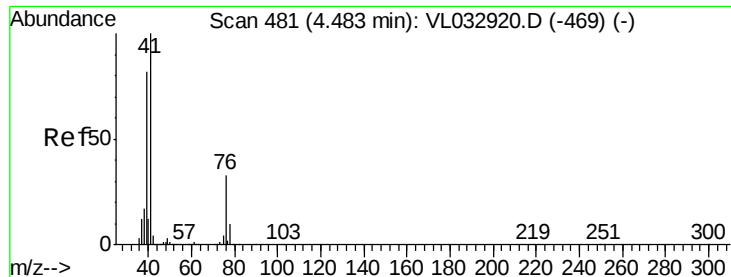
84 100

49 140.1 113.8 170.8

51 42.7 31.8 47.8

86 36.5 50.8 76.2#





#21

Allyl Chloride

Concen: 0.123 ppbv

RT: 4.48 min Scan# 481

Delta R.T. 0.00 min

Lab File: VL032924.D

Acq: 7 Dec 2018 6:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

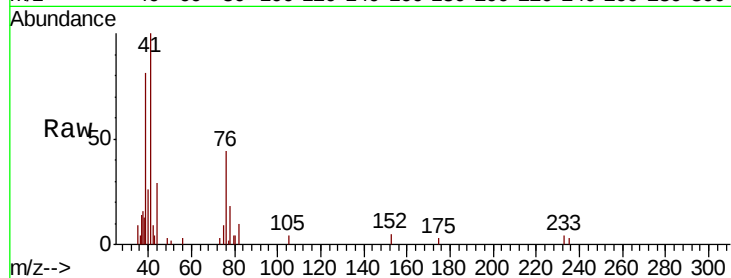
Tgt Ion: 41 Resp: 10365

Ion Ratio Lower Upper

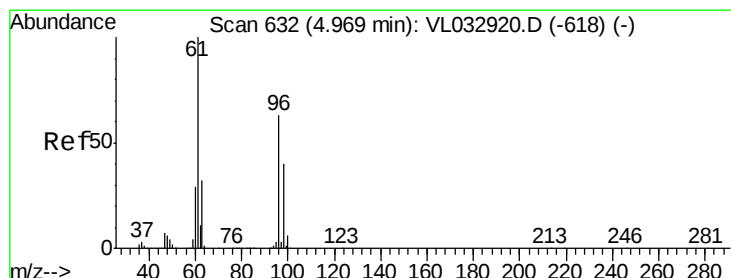
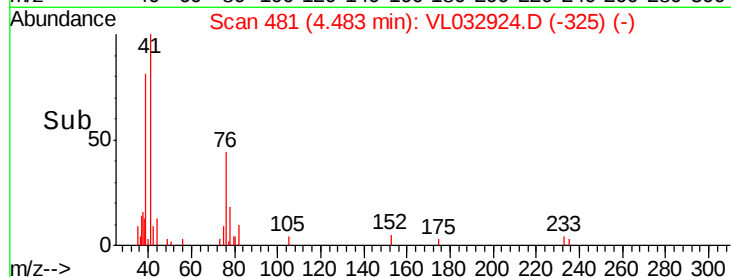
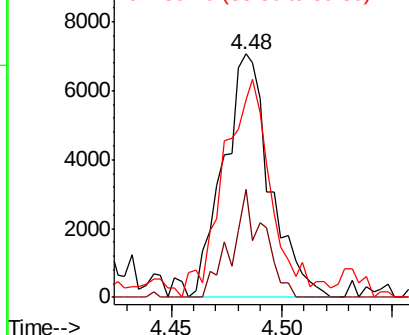
41 100

76 31.0 25.2 37.8

39 92.4 65.2 97.8



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: 0.114 ppbv

RT: 4.97 min Scan# 632

Delta R.T. 0.00 min

Lab File: VL032924.D

Acq: 7 Dec 2018 6:11

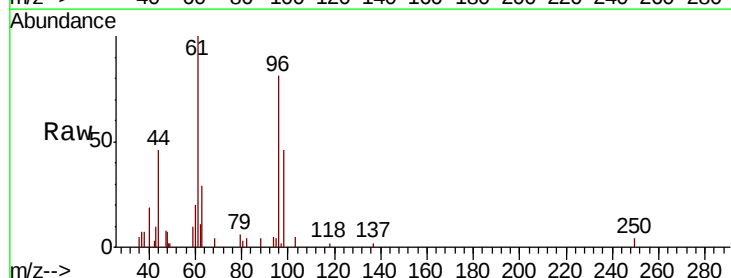
Tgt Ion: 96 Resp: 7917

Ion Ratio Lower Upper

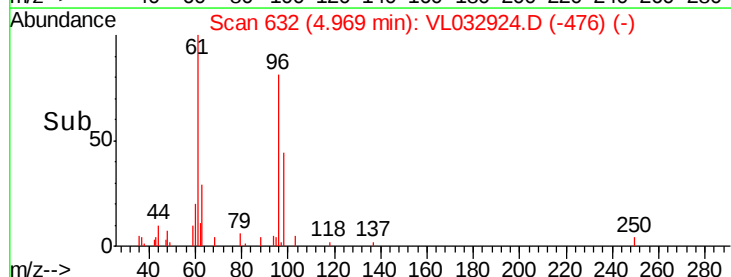
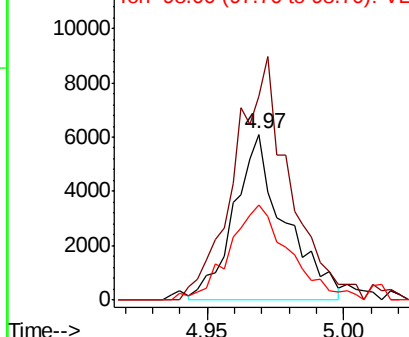
96 100

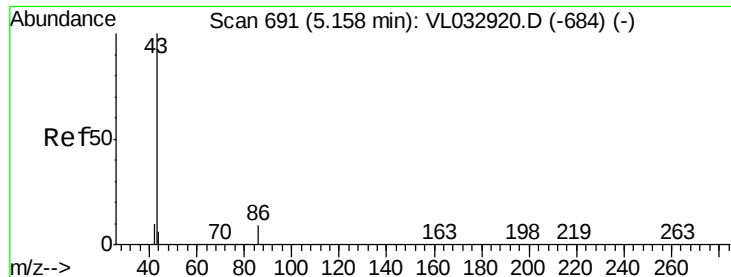
61 118.2 127.1 190.7#

98 56.0 51.3 76.9



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: 0.044 ppbv

RT: 5.17 min Scan# 694

Delta R.T. 0.01 min

Lab File: VL032924.D

Acq: 7 Dec 2018 6:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion: 43 Resp: 9538

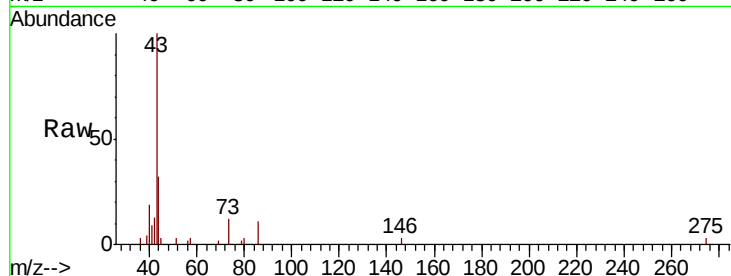
Ion Ratio Lower Upper

43 100

86 13.1 6.6 9.8#

42 9.3 8.3 12.5

44 11.7 4.2 6.4#

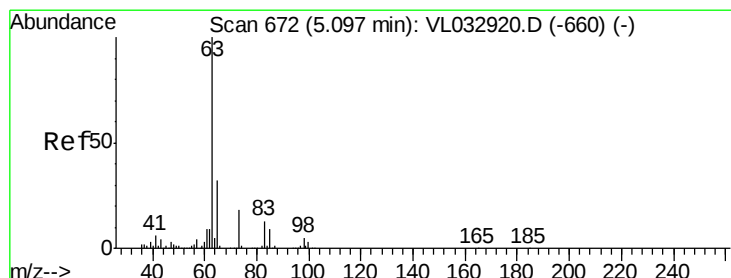
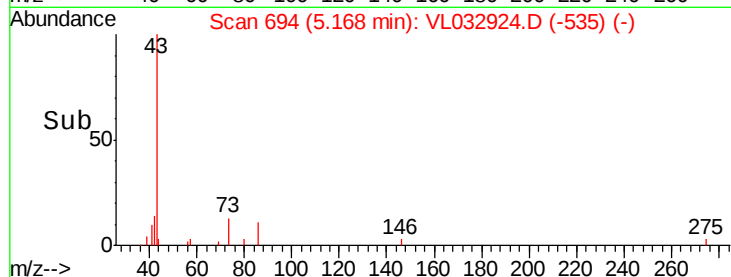
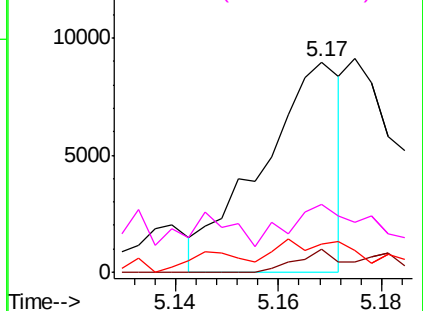


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 0.105 ppbv

RT: 5.09 min Scan# 670

Delta R.T. -0.01 min

Lab File: VL032924.D

Acq: 7 Dec 2018 6:11

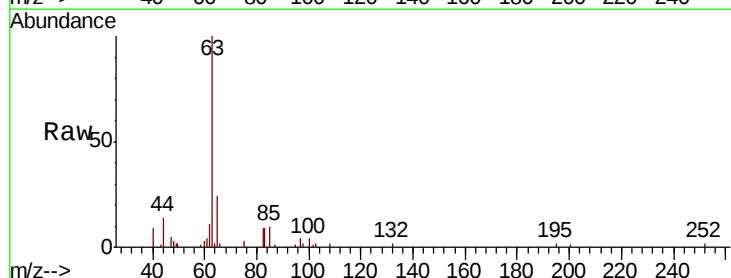
Tgt Ion: 63 Resp: 17491

Ion Ratio Lower Upper

63 100

98 2.1 2.5 7.5#

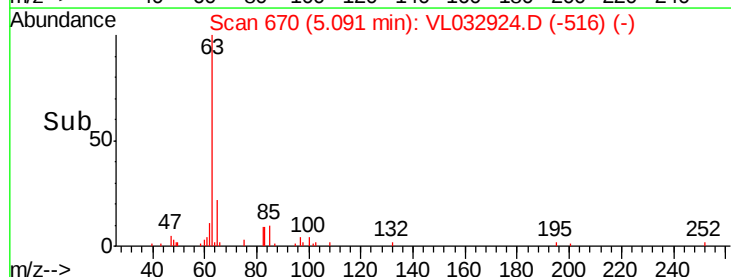
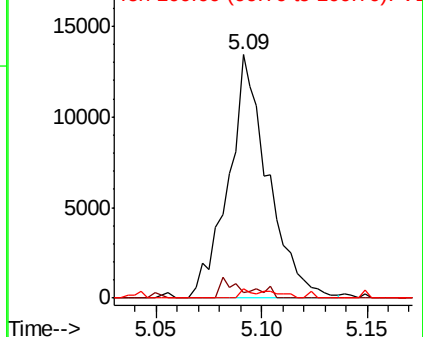
100 4.1 1.4 4.2

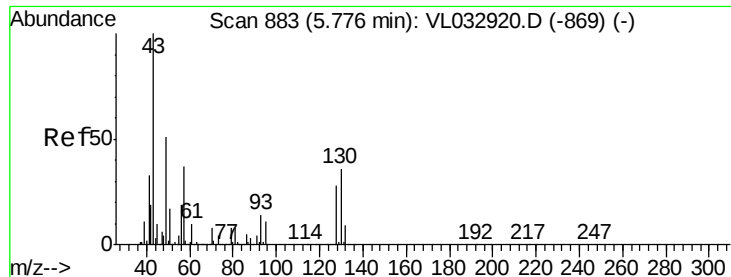


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

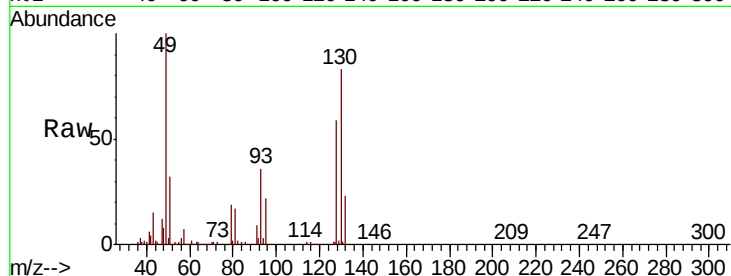




#25
Ethyl Acetate
Concen: 0.104 ppbv
RT: 5.79 min Scan# 887
Delta R.T. 0.01 min
Lab File: VL032924.D
Acq: 7 Dec 2018 6:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Tgt Ion:	43	Resp:	28033
Ion	Ratio	Lower	Upper
43	100		
45	13.3	7.8	11.6#
61	10.2	7.4	11.2
70	8.5	5.7	8.5



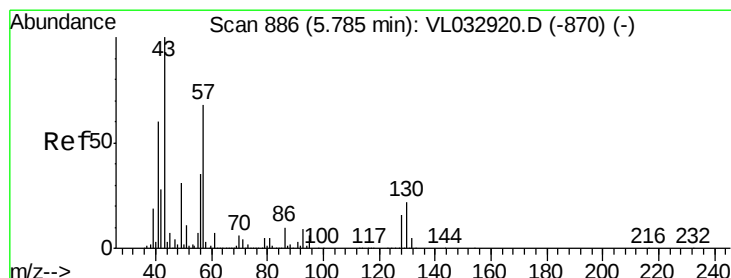
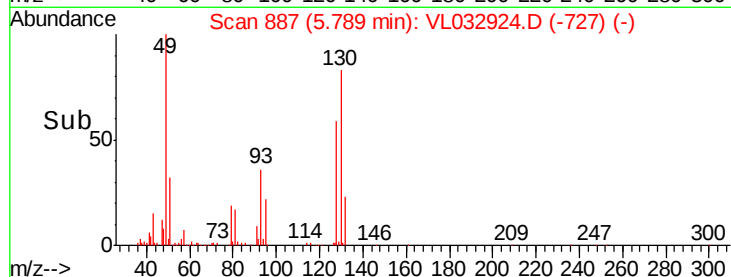
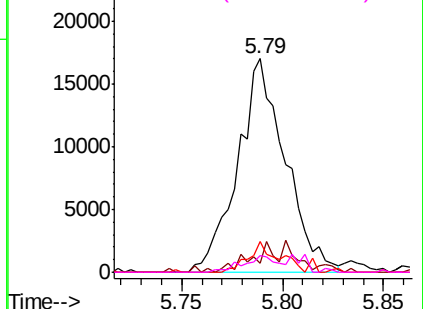
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

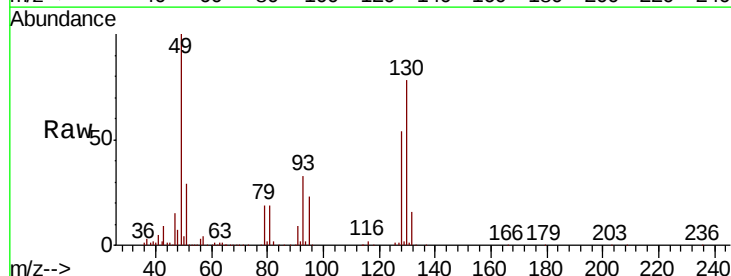
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 0.052 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.00 min
Lab File: VL032924.D
Acq: 7 Dec 2018 6:11

Tgt Ion:	57	Resp:	6639
Ion	Ratio	Lower	Upper
57	100		
41	237.0	72.2	108.2#
43	433.0	171.9	257.9#
56	121.2	42.2	63.2#



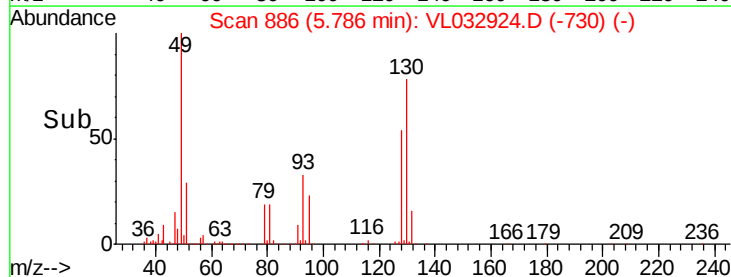
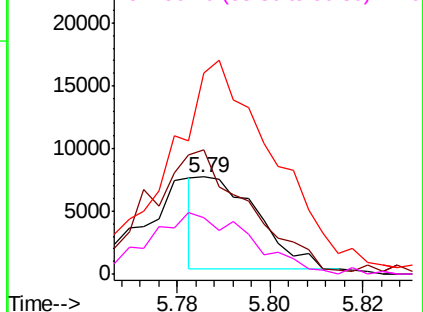
Abundance

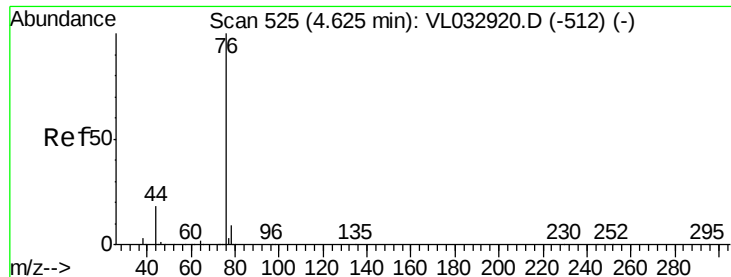
Ion 57.10 (56.80 to 57.80): VL0

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: 0.095 ppbv

RT: 4.63 min Scan# 526

Delta R.T. 0.00 min

Lab File: VL032924.D

Acq: 7 Dec 2018 6:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

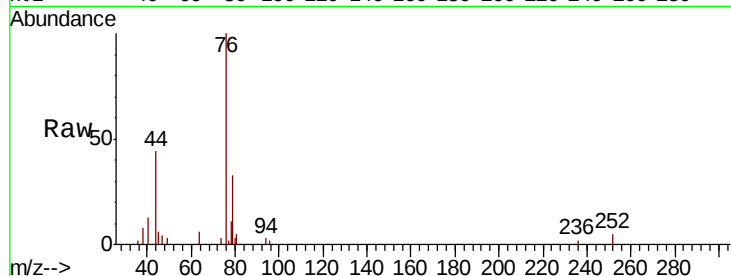
Tgt Ion: 76 Resp: 15321

Ion Ratio Lower Upper

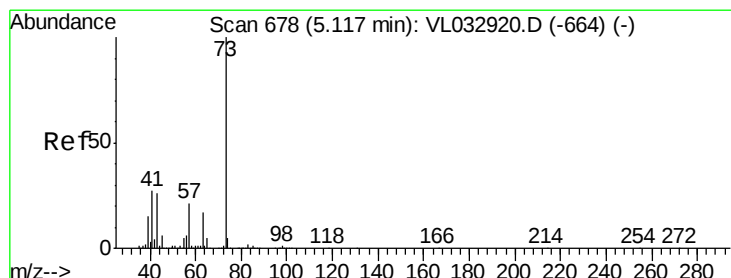
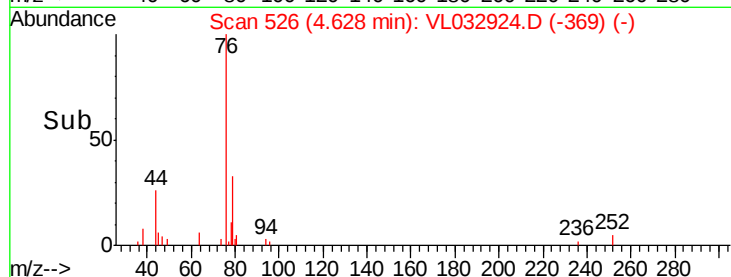
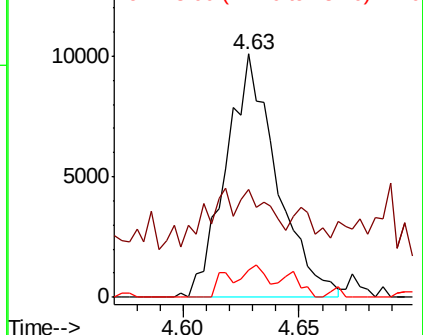
76 100

44 66.4 14.7 22.1#

78 14.5 7.4 11.2#



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: 0.073 ppbv

RT: 5.14 min Scan# 686

Delta R.T. 0.03 min

Lab File: VL032924.D

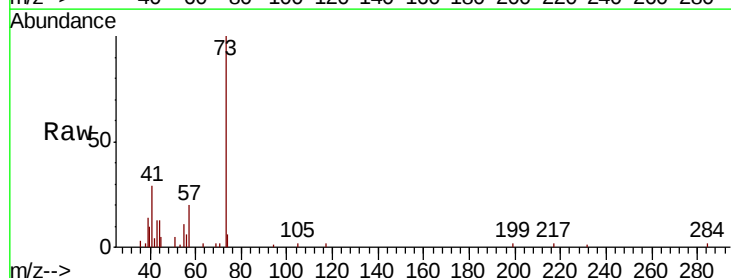
Acq: 7 Dec 2018 6:11

Tgt Ion: 73 Resp: 14766

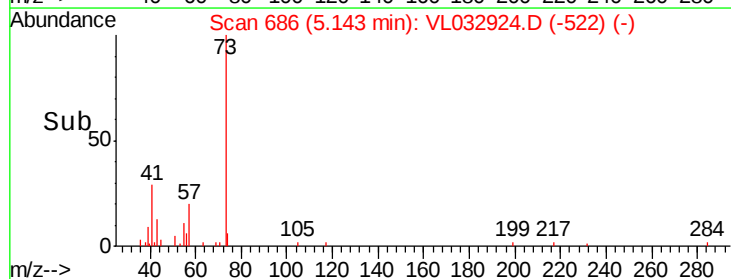
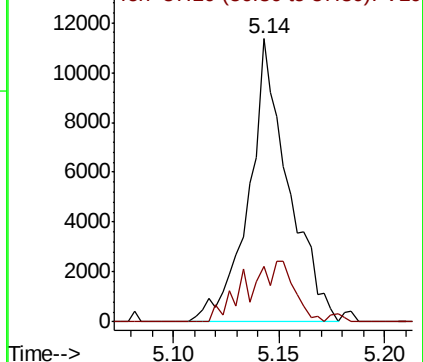
Ion Ratio Lower Upper

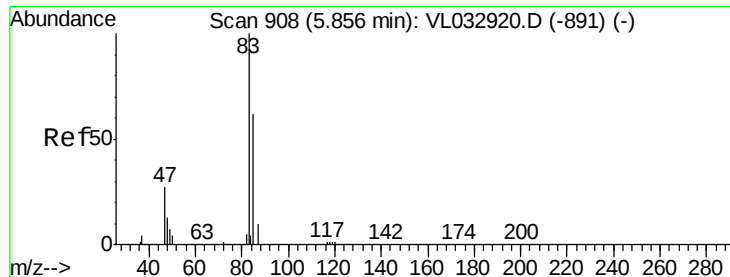
73 100

57 26.6 17.4 26.0#



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





#29

Chloroform

Concen: 0.049 ppbv

RT: 5.85 min Scan# 907

Delta R.T. -0.00 min

Lab File: VL032924.D

Acq: 7 Dec 2018 6:11

Instrument :

MSVOA_L

ClientSampleId :

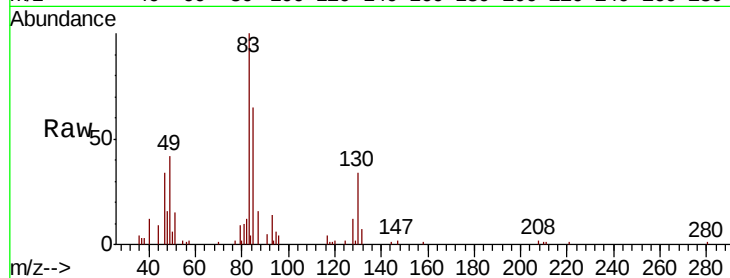
VSTDIC0.1

Tgt Ion: 83 Resp: 10326

Ion Ratio Lower Upper

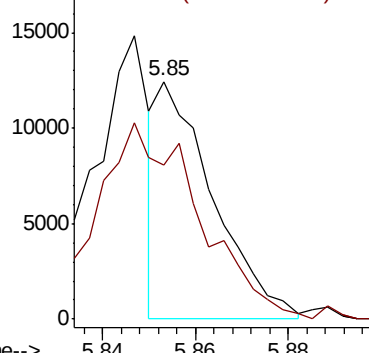
83 100

85 63.4 49.8 74.8

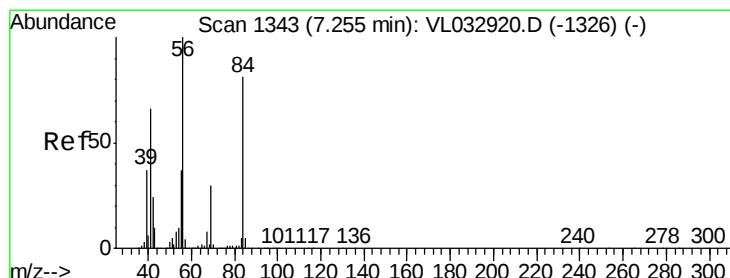
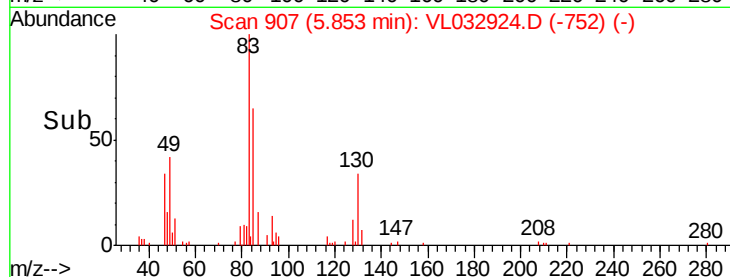


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



Time-->



#30

Cyclohexane

Concen: 0.034 ppbv

RT: 7.25 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VL032924.D

Acq: 7 Dec 2018 6:11

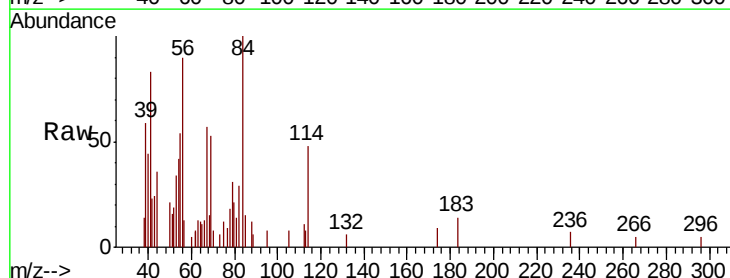
Tgt Ion: 84 Resp: 3555

Ion Ratio Lower Upper

84 100

56 0.0 102.5 153.7#

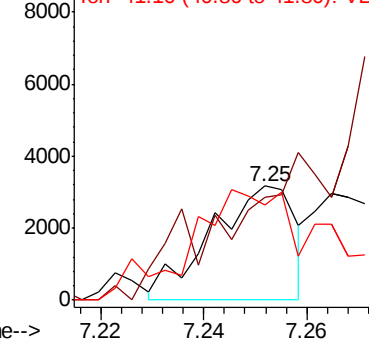
41 185.3 64.1 96.1#



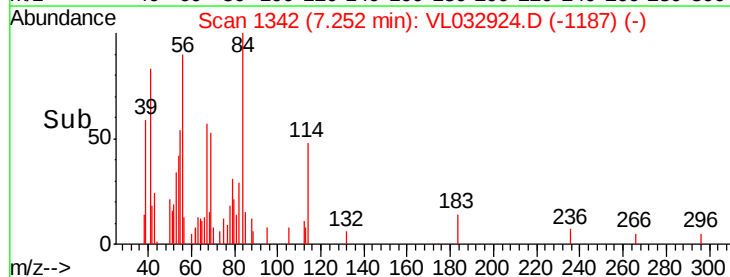
Abundance Ion 84.20 (83.90 to 84.90): VL0

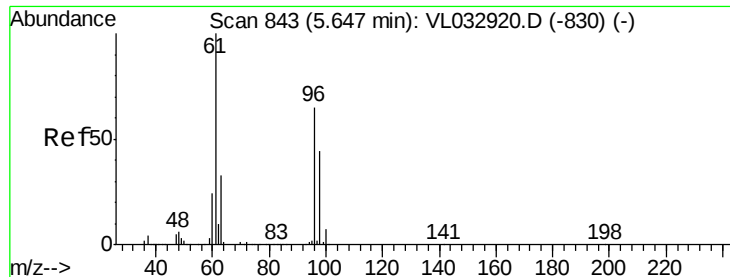
Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0



Time-->





#31

cis-1,2-Dichloroethene

Concen: 0.059 ppbv

RT: 5.65 min Scan# 844

Delta R.T. 0.00 min

Lab File: VL032924.D

Acq: 7 Dec 2018 6:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

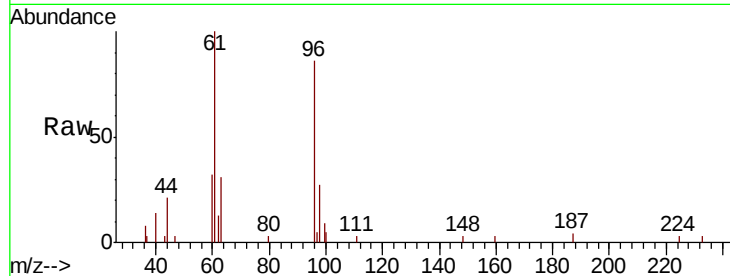
Tgt Ion: 61 Resp: 6790

Ion Ratio Lower Upper

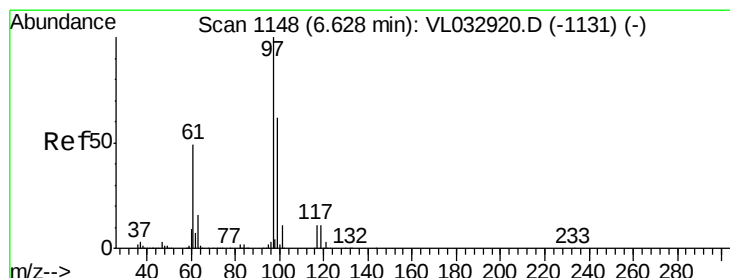
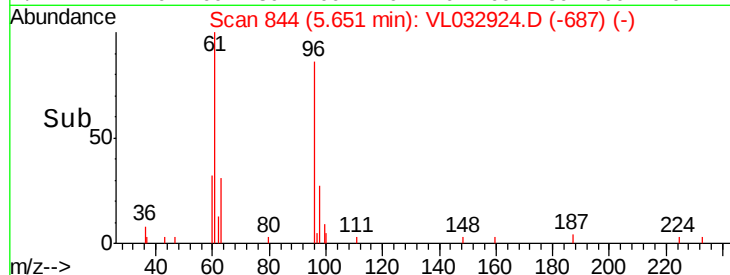
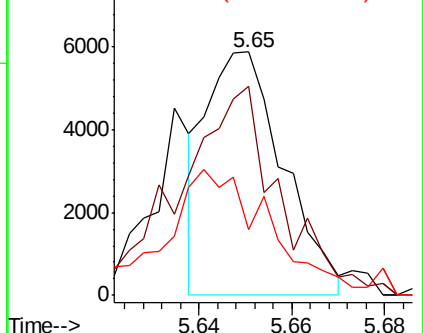
61 100

96 91.3 51.9 77.9#

98 21.3 35.0 52.4#



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: 0.048 ppbv

RT: 6.63 min Scan# 1149

Delta R.T. 0.00 min

Lab File: VL032924.D

Acq: 7 Dec 2018 6:11

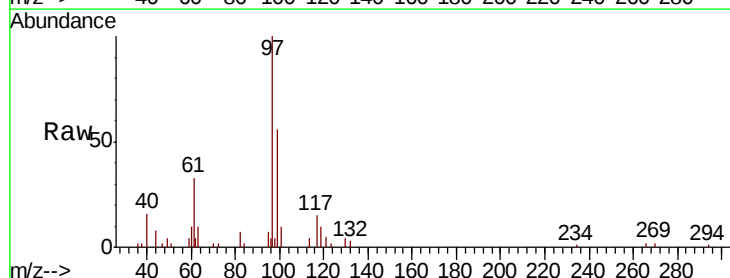
Tgt Ion: 97 Resp: 11264

Ion Ratio Lower Upper

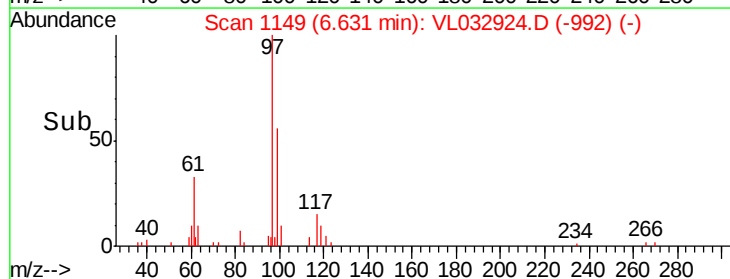
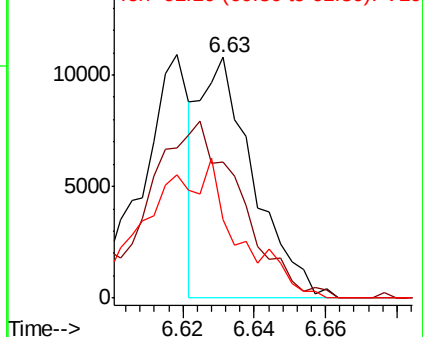
97 100

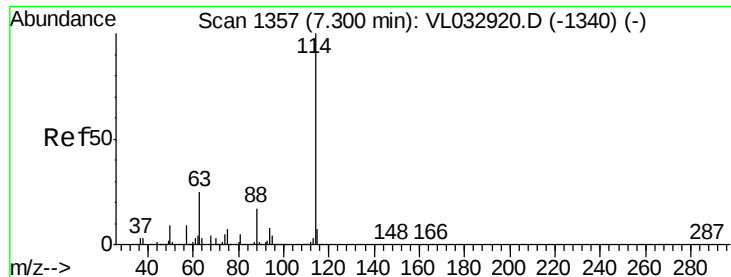
99 129.8 51.1 76.7#

61 96.9 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

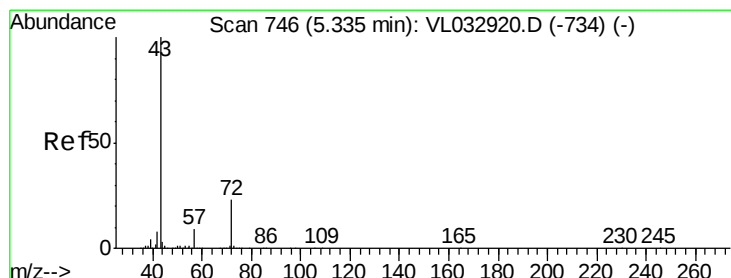
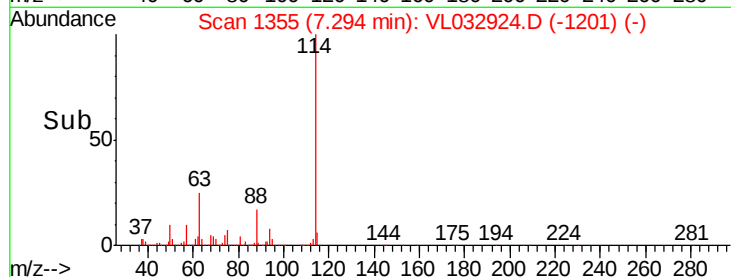
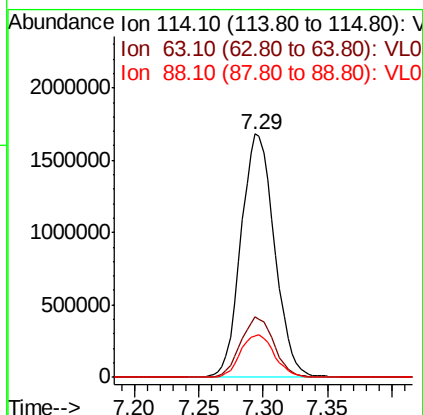
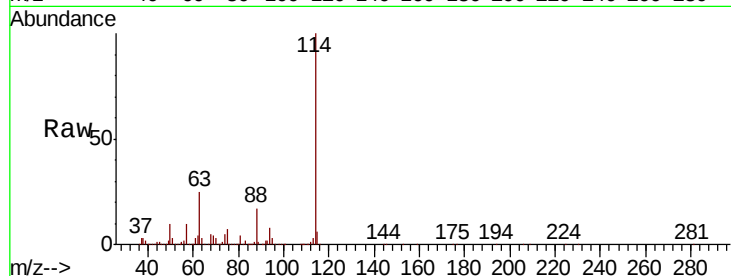




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.01 min
 Lab File: VL032924.D
 Acq: 7 Dec 2018 6:11

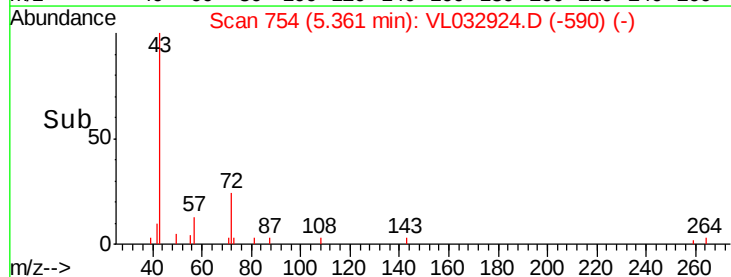
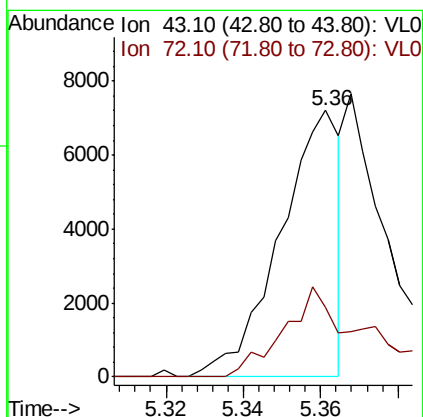
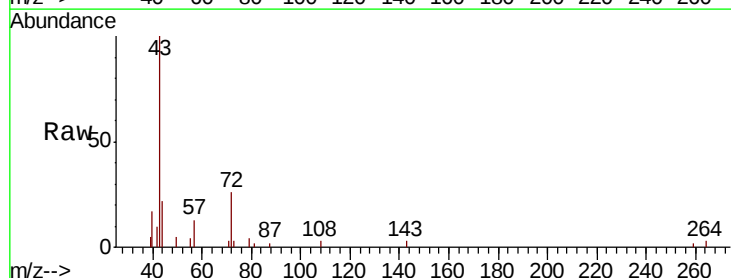
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

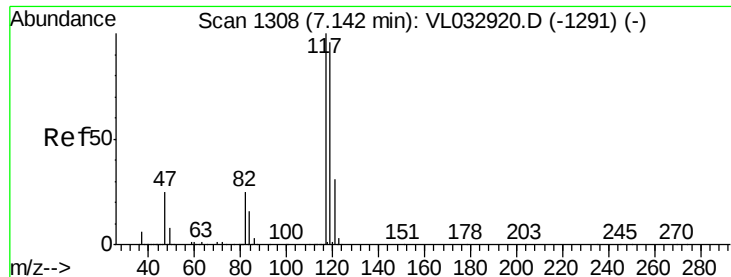
Tgt Ion:114 Resp: 3045142
 Ion Ratio Lower Upper
 114 100
 63 24.9 20.1 30.1
 88 17.7 14.2 21.4



#34
 2-Butanone
 Concen: 0.051 ppbv
 RT: 5.36 min Scan# 754
 Delta R.T. 0.03 min
 Lab File: VL032924.D
 Acq: 7 Dec 2018 6:11

Tgt Ion: 43 Resp: 7724
 Ion Ratio Lower Upper
 43 100
 72 45.6 18.8 28.2#

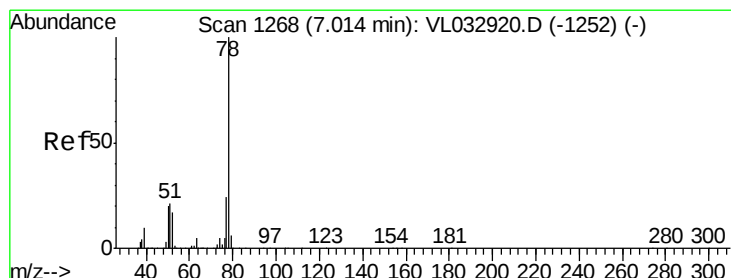
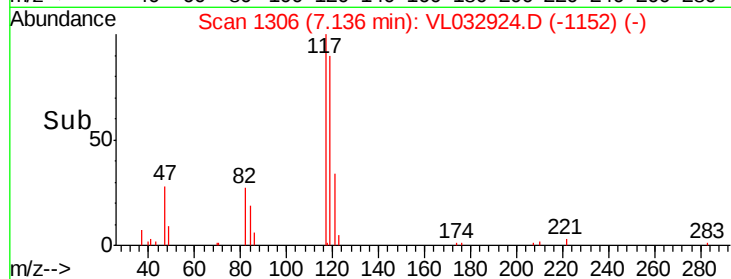
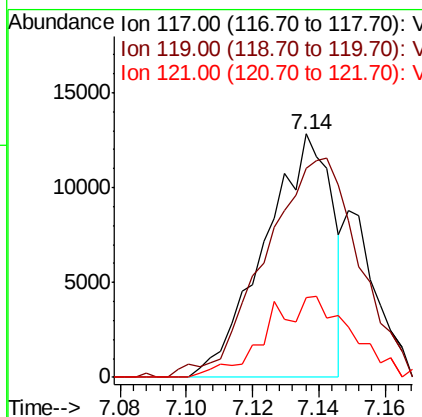
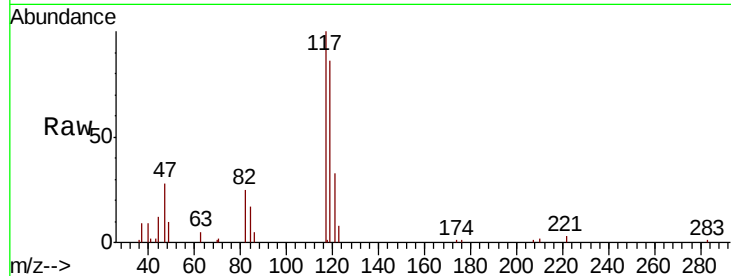




#35
Carbon Tetrachloride
Concen: 0.080 ppbv
RT: 7.14 min Scan# 1306
Delta R.T. -0.01 min
Lab File: VL032924.D
Acq: 7 Dec 2018 6:11

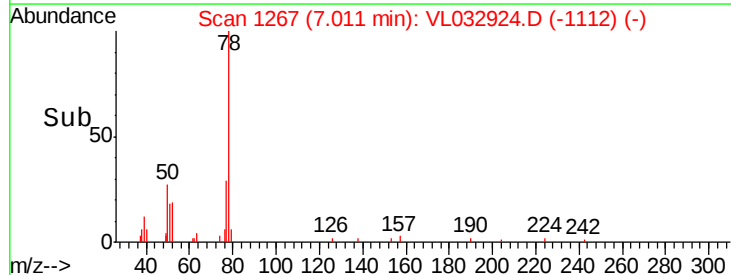
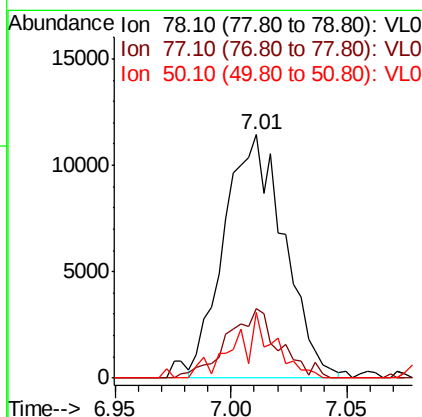
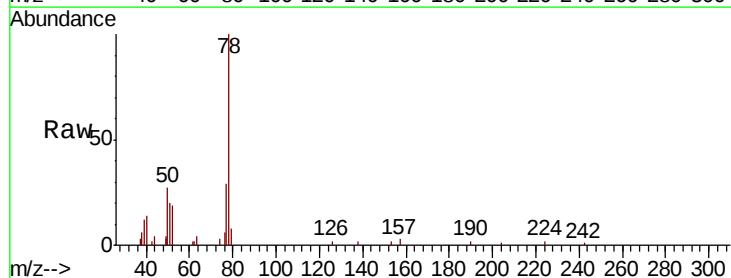
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

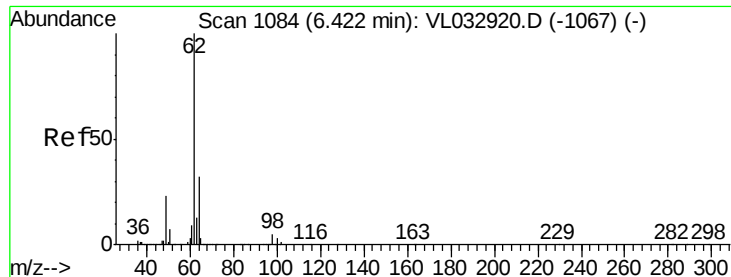
Tgt Ion: 117 Resp: 18207
Ion Ratio Lower Upper
117 100
119 80.5 76.5 114.7
121 32.9 24.5 36.7



#36
Benzene
Concen: 0.086 ppbv
RT: 7.01 min Scan# 1267
Delta R.T. -0.00 min
Lab File: VL032924.D
Acq: 7 Dec 2018 6:11

Tgt Ion: 78 Resp: 20545
Ion Ratio Lower Upper
78 100
77 29.3 18.9 28.3#
50 27.5 16.1 24.1#

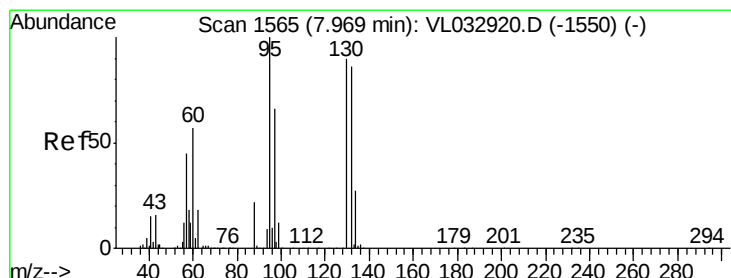
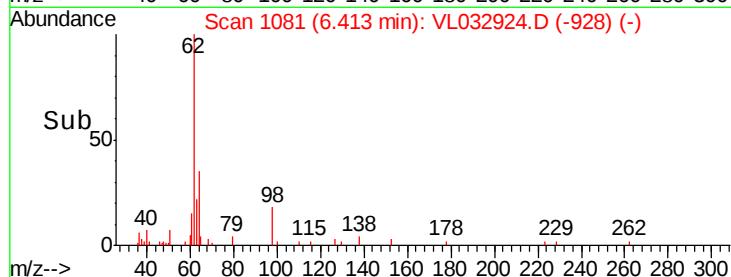
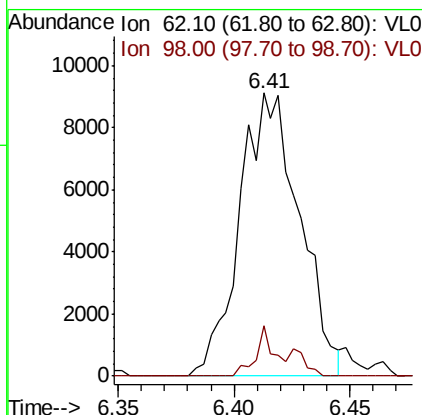
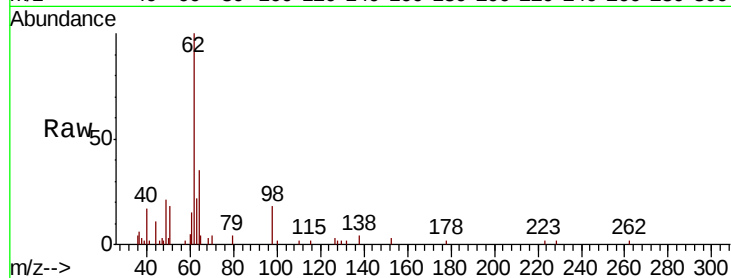




#37
 1,2-Dichloroethane
 Concen: 0.107 ppbv
 RT: 6.41 min Scan# 1081
 Delta R.T. -0.01 min
 Lab File: VL032924.D
 Acq: 7 Dec 2018 6:11

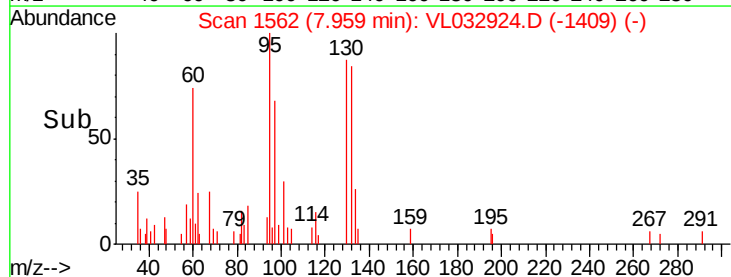
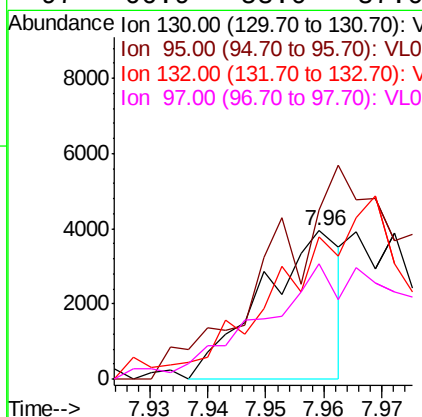
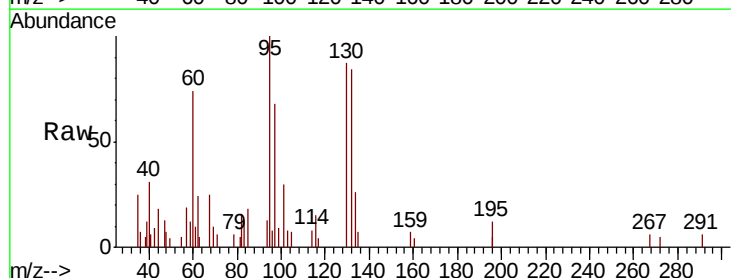
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

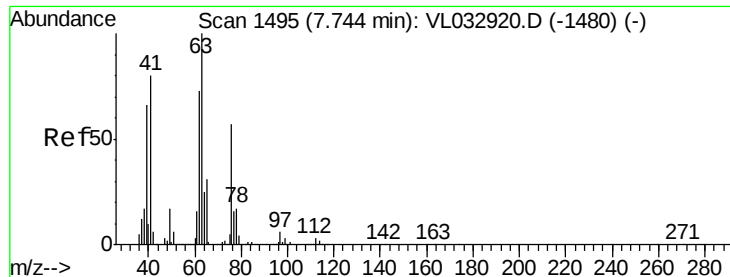
Tgt Ion: 62 Resp: 16405
 Ion Ratio Lower Upper
 62 100
 98 7.9 4.3 6.5#



#38
 Trichloroethene
 Concen: 0.039 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. -0.01 min
 Lab File: VL032924.D
 Acq: 7 Dec 2018 6:11

Tgt Ion: 130 Resp: 3728
 Ion Ratio Lower Upper
 130 100
 95 95.0 88.6 132.8
 132 84.9 76.1 114.1
 97 66.9 58.0 87.0





#39

1,2-Dichloropropane

Concen: 8.627 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. -0.45 min

Lab File: VL032924.D

Acq: 7 Dec 2018 6:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

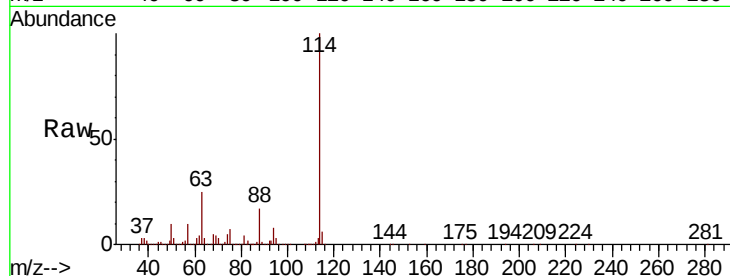
Tgt Ion: 63 Resp: 754374

Ion Ratio Lower Upper

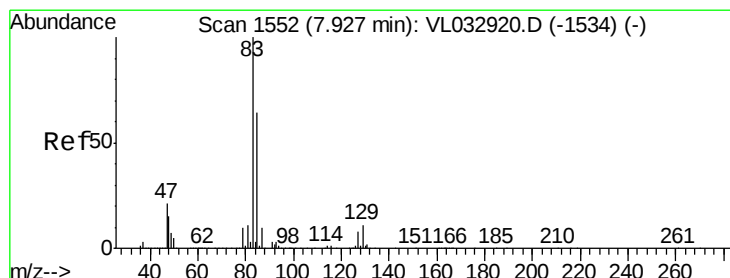
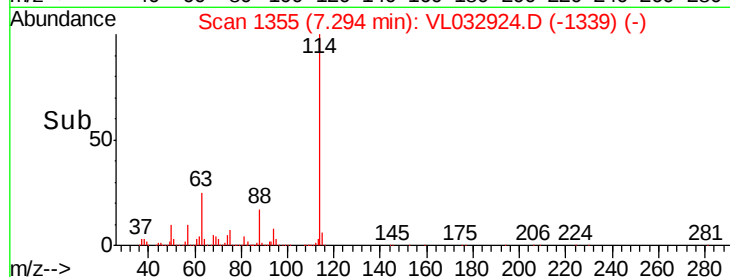
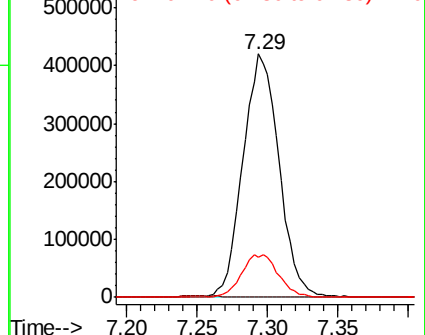
63 100

41 0.1 63.9 95.9#

62 16.4 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



#42

Bromodichloromethane

Concen: 0.110 ppbv

RT: 7.92 min Scan# 1550

Delta R.T. -0.01 min

Lab File: VL032924.D

Acq: 7 Dec 2018 6:11

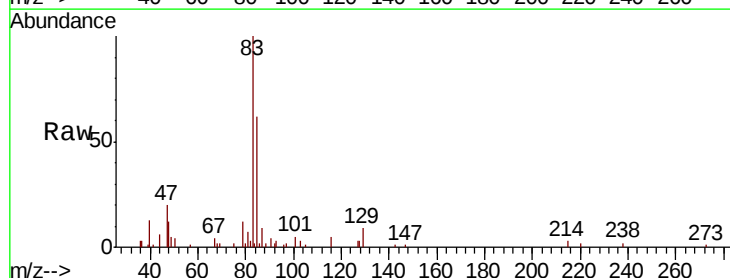
Tgt Ion: 83 Resp: 23483

Ion Ratio Lower Upper

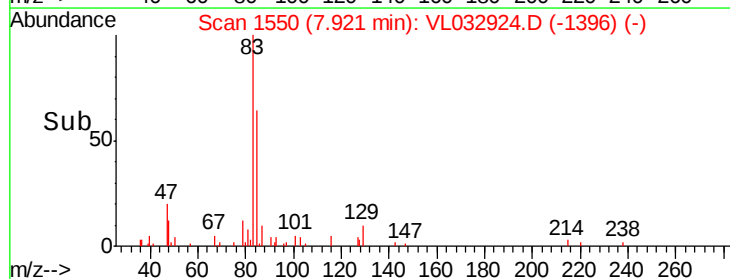
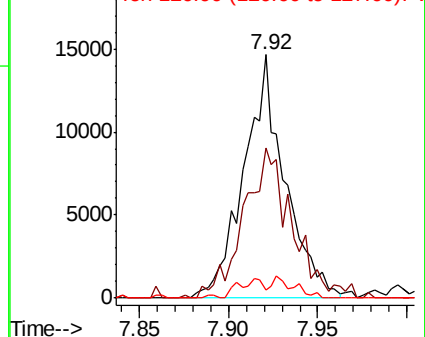
83 100

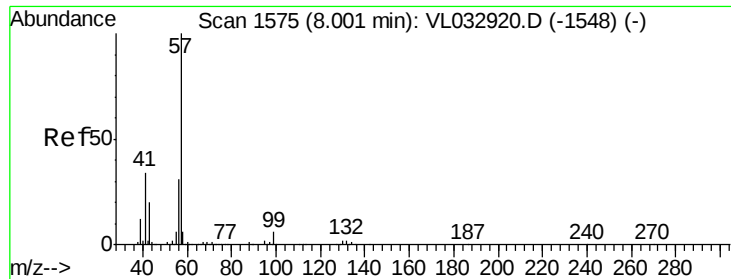
85 61.5 50.9 76.3

127 3.4 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): V

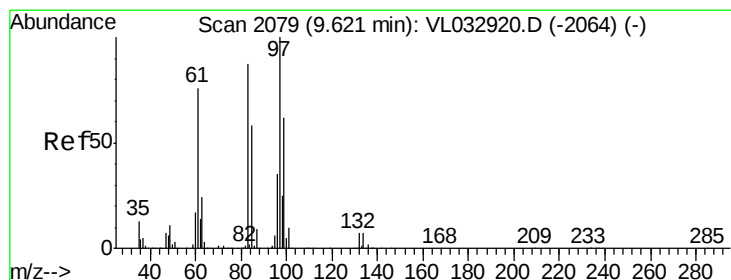
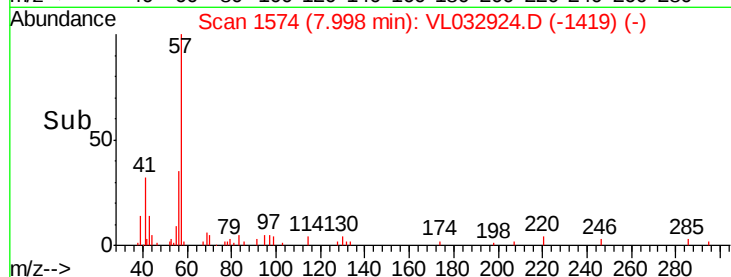
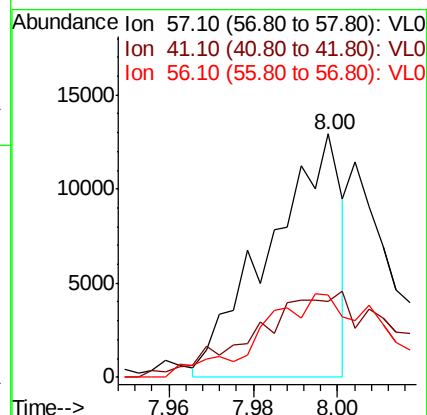
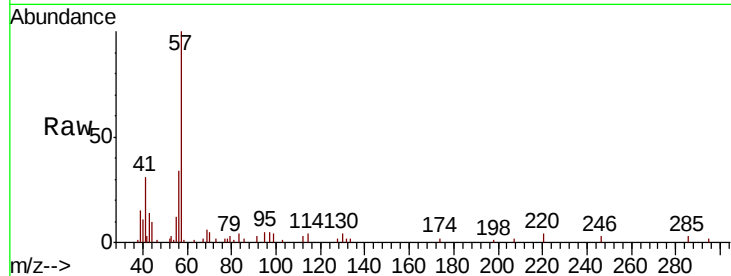




#44
 2,2,4-Trimethylpentane
 Concen: 0.039 ppbv
 RT: 8.00 min Scan# 1574
 Delta R.T. -0.00 min
 Lab File: VL032924.D
 Acq: 7 Dec 2018 6:11

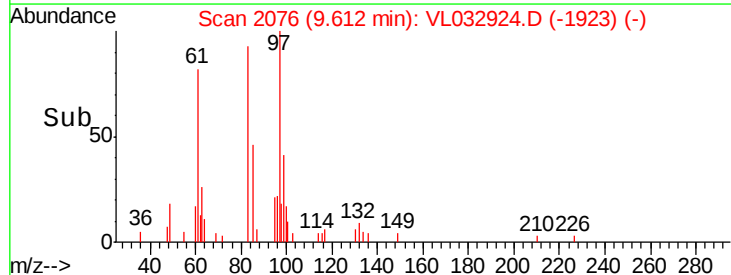
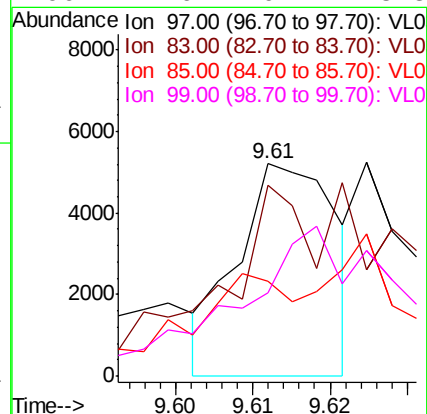
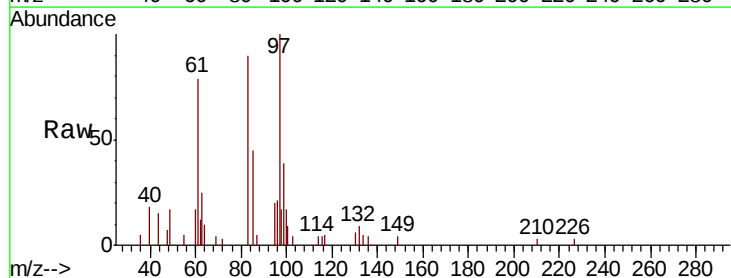
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

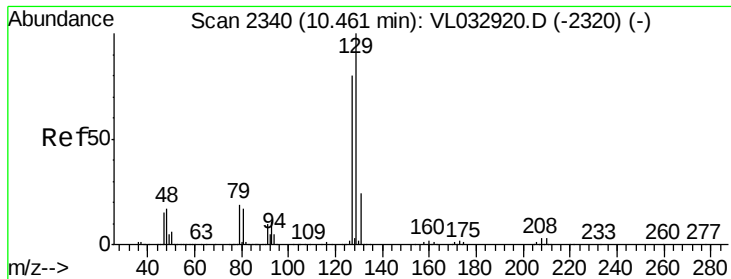
Tgt Ion: 57 Resp: 15353
 Ion Ratio Lower Upper
 57 100
 41 0.0 27.0 40.4#
 56 62.2 24.6 37.0#



#47
 1,1,2-Trichloroethane
 Concen: 0.045 ppbv
 RT: 9.61 min Scan# 2076
 Delta R.T. -0.01 min
 Lab File: VL032924.D
 Acq: 7 Dec 2018 6:11

Tgt Ion: 97 Resp: 4606
 Ion Ratio Lower Upper
 97 100
 83 83.3 69.8 104.8
 85 35.8 46.7 70.1#
 99 27.6 49.2 73.8#





#48

Dibromochloromethane

Concen: 0.049 ppbv

RT: 10.45 min Scan# 2338

Delta R.T. -0.01 min

Lab File: VL032924.D

Acq: 7 Dec 2018 6:11

Instrument :

MSVOA_L

ClientSampleId :

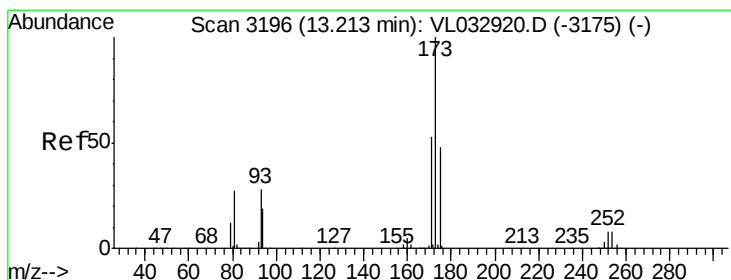
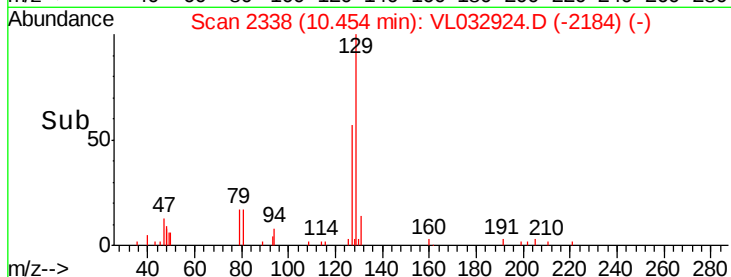
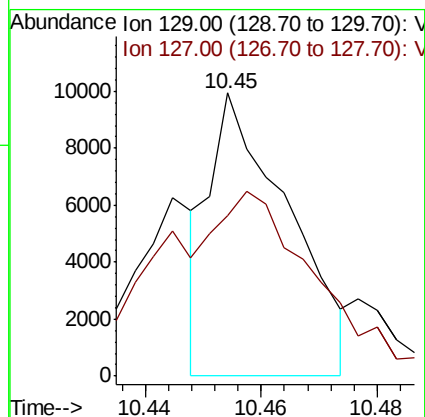
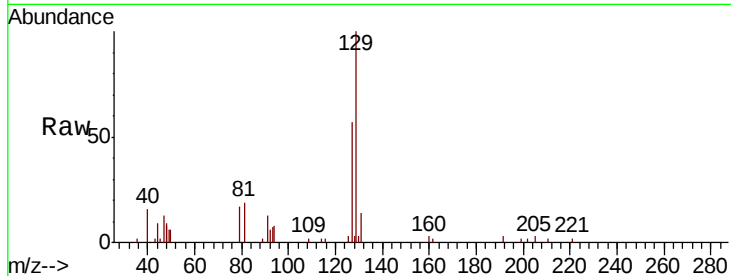
VSTDIC0.1

Tgt Ion:129 Resp: 9336

Ion Ratio Lower Upper

129 100

127 136.3 39.3 117.8#



#49

Bromoform

Concen: 0.042 ppbv

RT: 13.20 min Scan# 3192

Delta R.T. -0.01 min

Lab File: VL032924.D

Acq: 7 Dec 2018 6:11

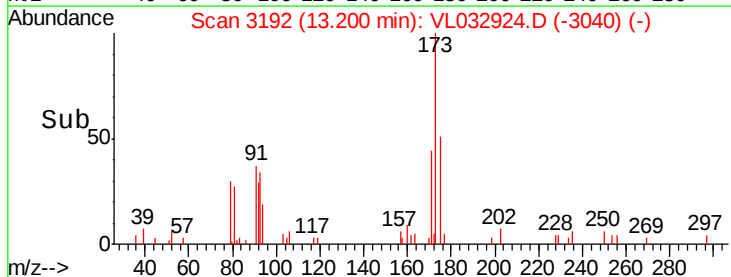
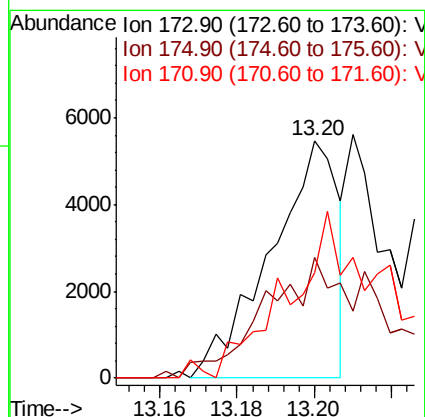
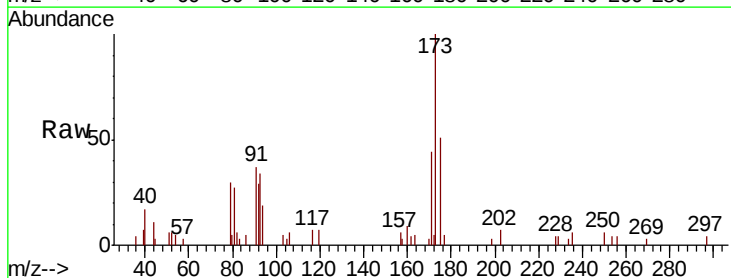
Tgt Ion:173 Resp: 6677

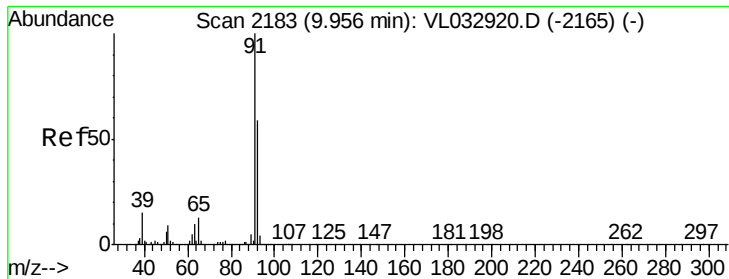
Ion Ratio Lower Upper

173 100

175 89.6 39.0 58.4#

171 98.8 41.5 62.3#





#53

Toluene

Concen: 0.035 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.01 min

Lab File: VL032924.D

Acq: 7 Dec 2018 6:11

Instrument :

MSVOA_L

ClientSampleId :

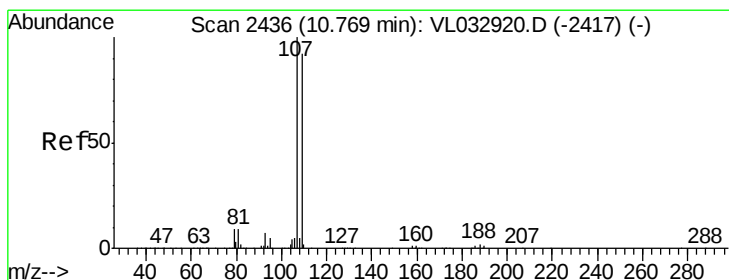
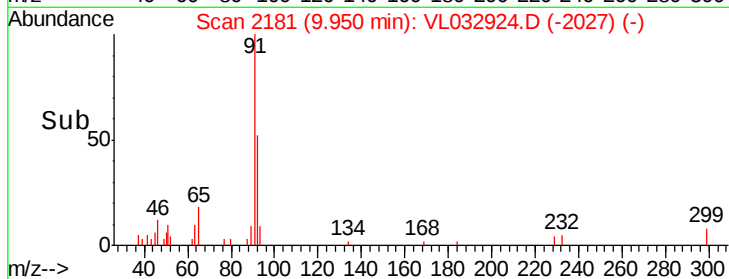
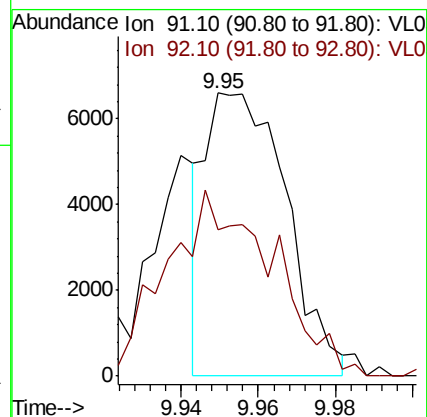
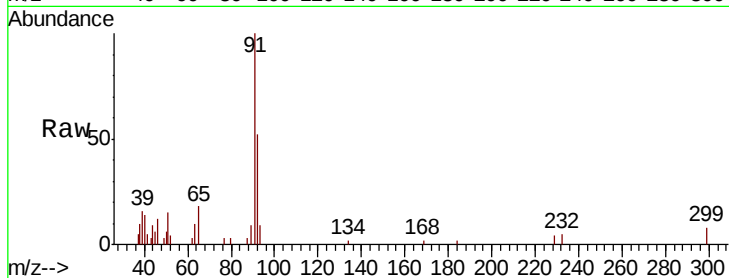
VSTDIC0.1

Tgt Ion: 91 Resp: 9550

Ion Ratio Lower Upper

91 100

92 86.2 47.4 71.0#



#54

1,2-Dibromoethane

Concen: 0.044 ppbv

RT: 10.76 min Scan# 2434

Delta R.T. -0.01 min

Lab File: VL032924.D

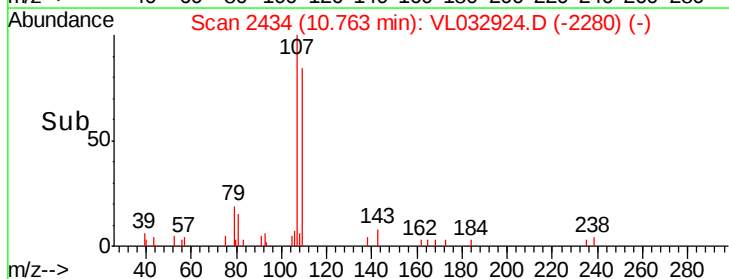
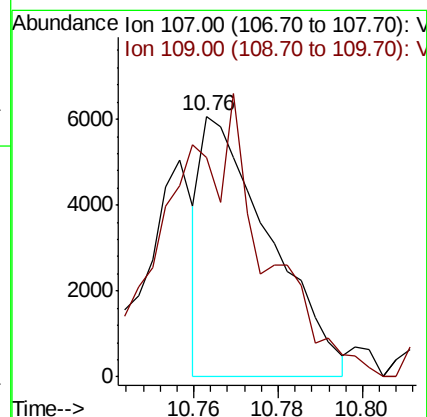
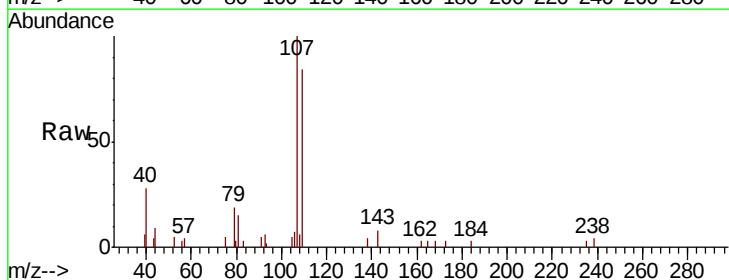
Acq: 7 Dec 2018 6:11

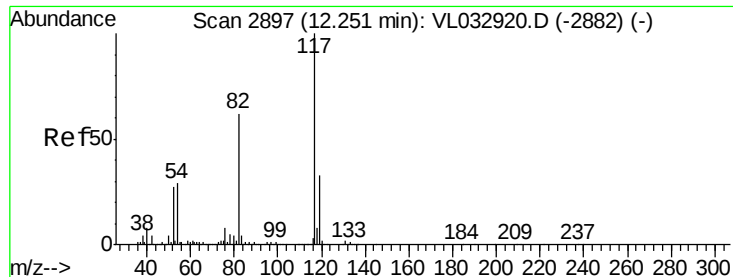
Tgt Ion: 107 Resp: 6840

Ion Ratio Lower Upper

107 100

109 82.3 73.4 110.2

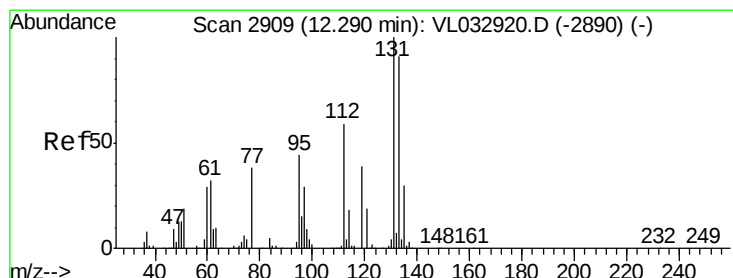
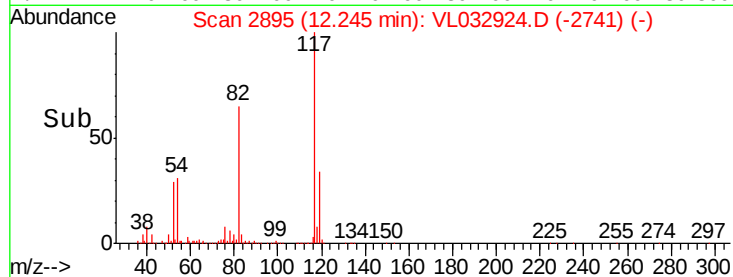
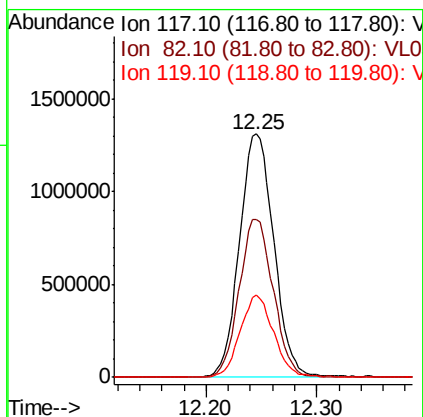
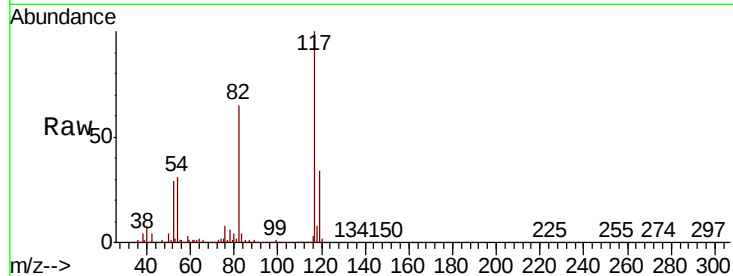




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2895
Delta R.T. -0.01 min
Lab File: VL032924.D
Acq: 7 Dec 2018 6:11

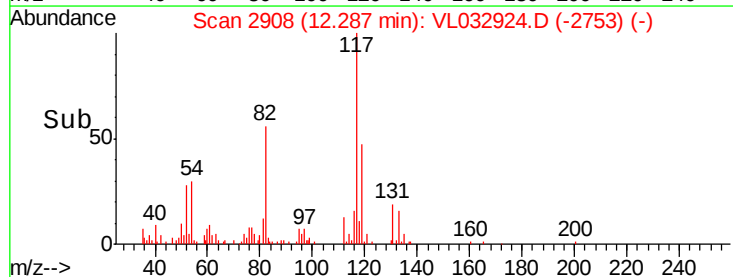
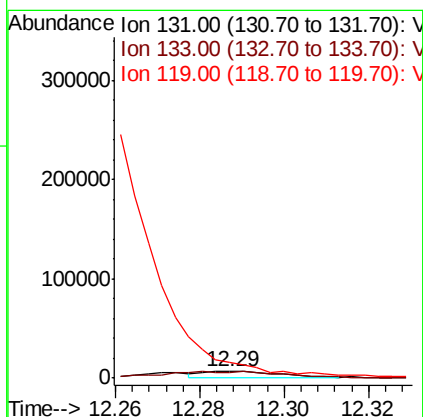
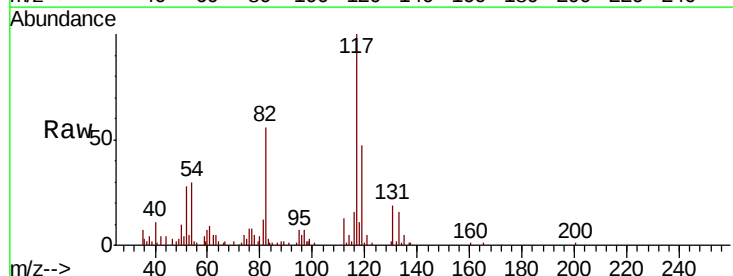
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

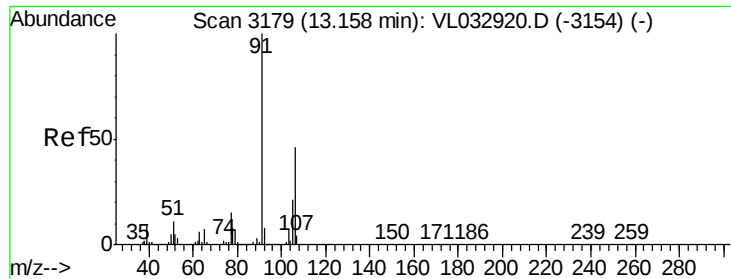
Tgt Ion:117 Resp: 2829263
Ion Ratio Lower Upper
117 100
82 64.8 47.8 71.8
119 33.0 43.1 64.7#



#56
1,1,1,2-Tetrachloroethane
Concen: 0.070 ppbv
RT: 12.29 min Scan# 2908
Delta R.T. -0.00 min
Lab File: VL032924.D
Acq: 7 Dec 2018 6:11

Tgt Ion:131 Resp: 8971
Ion Ratio Lower Upper
131 100
133 160.5 75.1 112.7#
119 0.0 47.5 71.3#





#59

m/p-Xylene

Concen: 0.033 ppbv

RT: 13.16 min Scan# 3178

Delta R.T. -0.00 min

Lab File: VL032924.D

Acq: 7 Dec 2018 6:11

Instrument :

MSVOA_L

ClientSampleId :

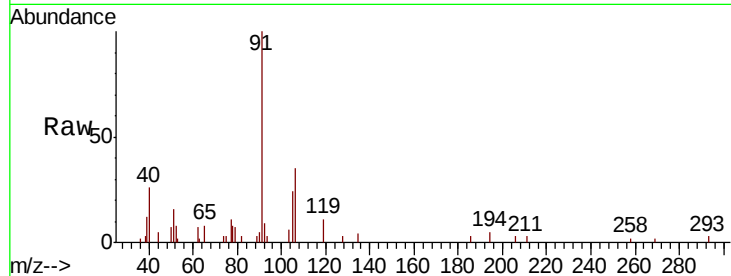
VSTDIC0.1

Tgt Ion: 91 Resp: 9705

Ion Ratio Lower Upper

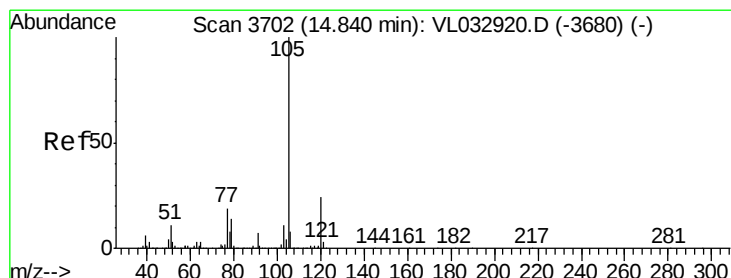
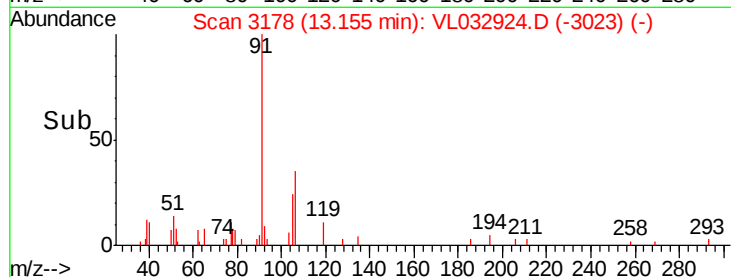
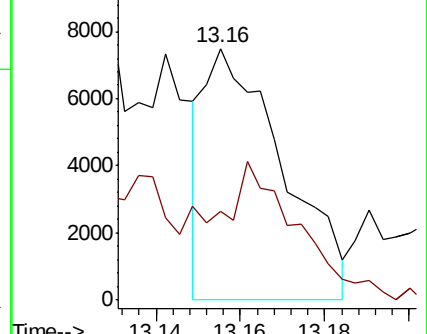
91 100

106 51.5 0.0 0.0#



Abundance Ion 91.10 (90.80 to 91.80): VL032920.D (-3154) (-)

Ion 106.10 (105.80 to 106.80): VL032920.D (-3154) (-)



#62

Isopropylbenzene

Concen: 0.056 ppbv

RT: 14.83 min Scan# 3700

Delta R.T. -0.01 min

Lab File: VL032924.D

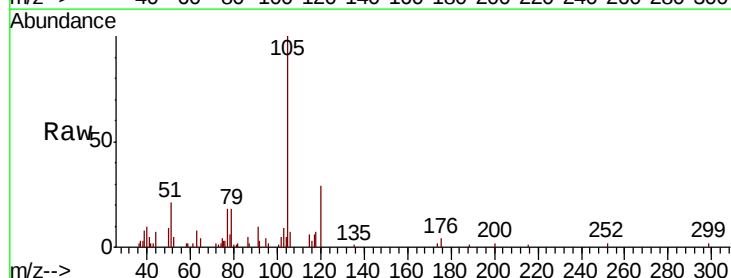
Acq: 7 Dec 2018 6:11

Tgt Ion: 105 Resp: 22540

Ion Ratio Lower Upper

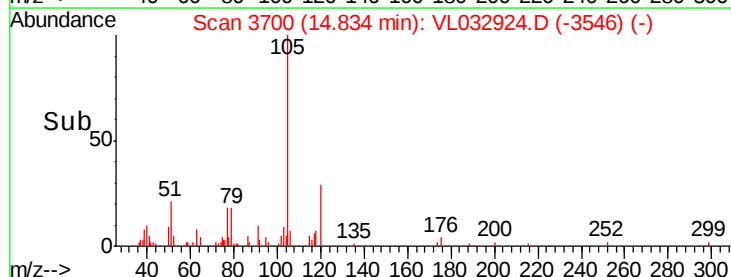
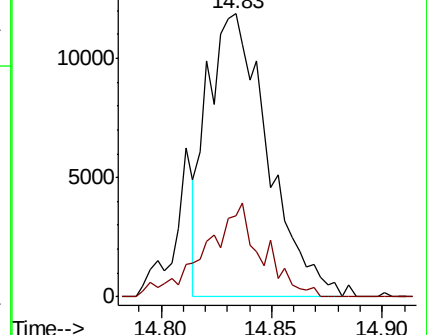
105 100

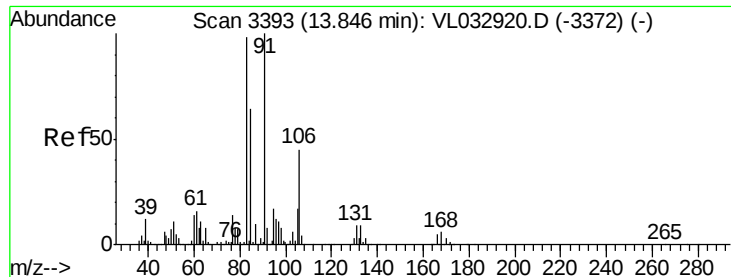
120 31.1 20.3 30.5#



Abundance Ion 105.10 (104.80 to 105.80): VL032920.D (-3680) (-)

Ion 120.20 (119.90 to 120.90): VL032920.D (-3680) (-)

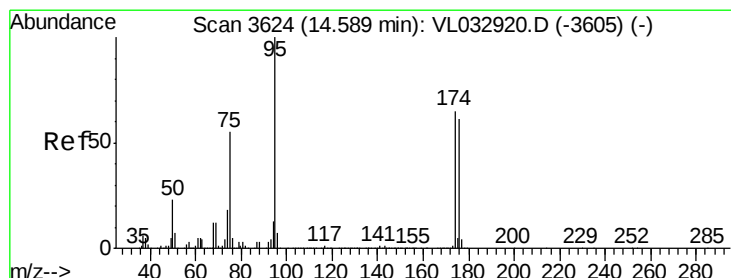
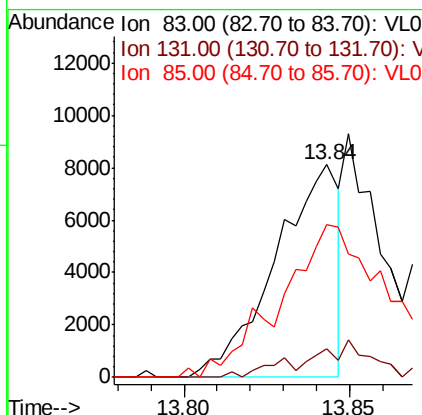
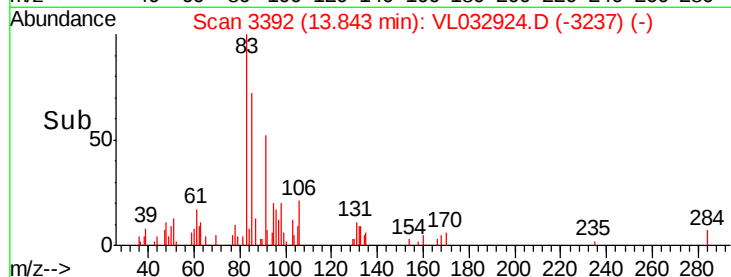
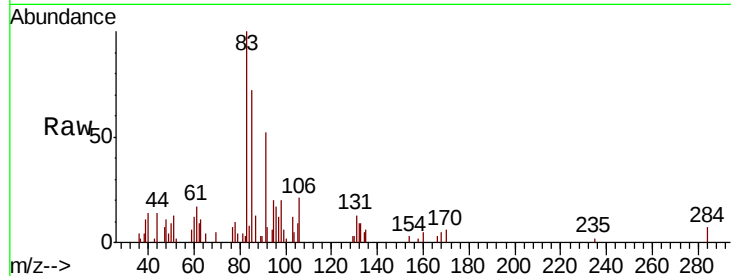




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.051 ppbv
 RT: 13.84 min Scan# 3392
 Delta R.T. -0.00 min
 Lab File: VL032924.D
 Acq: 7 Dec 2018 6:11

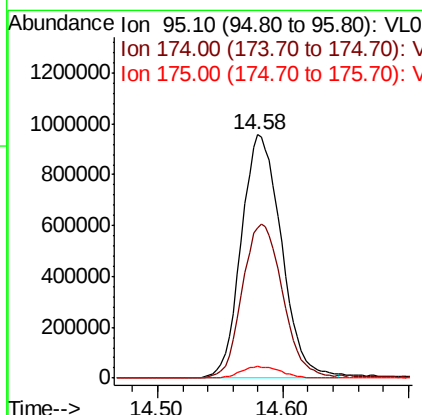
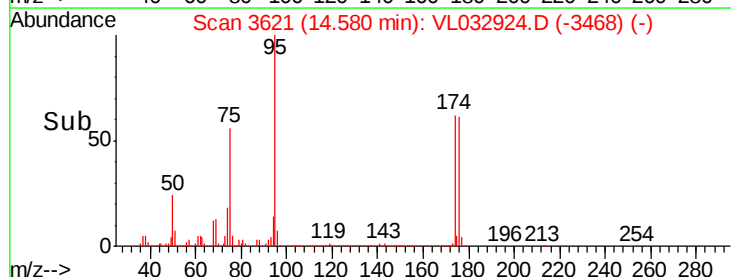
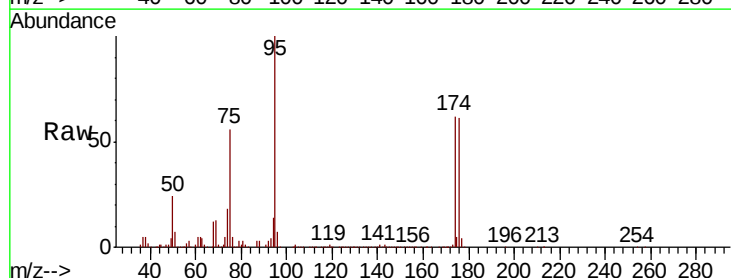
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

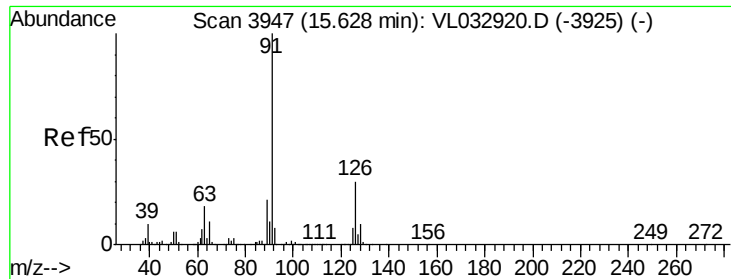
Tgt Ion: 83 Resp: 10858
 Ion Ratio Lower Upper
 83 100
 131 0.0 4.9 14.6#
 85 125.4 32.9 98.6#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.306 ppbv
 RT: 14.58 min Scan# 3621
 Delta R.T. -0.01 min
 Lab File: VL032924.D
 Acq: 7 Dec 2018 6:11

Tgt Ion: 95 Resp: 2129443
 Ion Ratio Lower Upper
 95 100
 174 65.4 51.4 77.0
 175 4.8 3.8 5.6

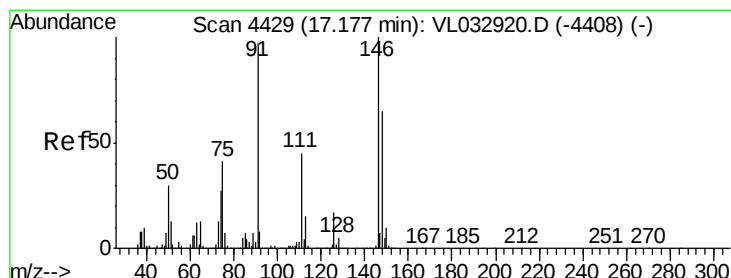
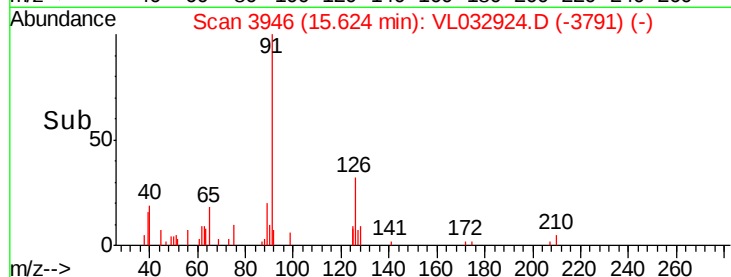
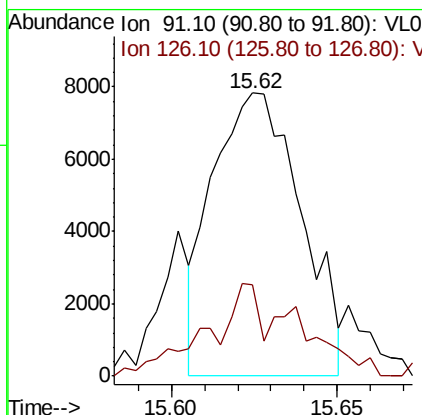
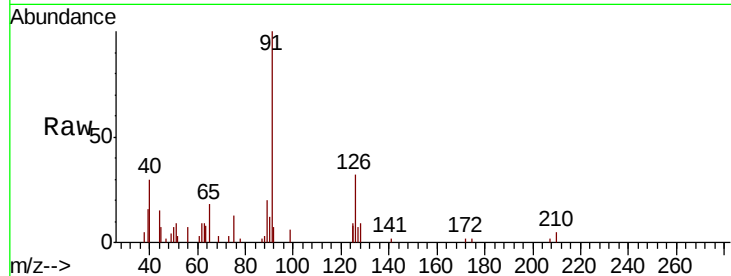




#71
 2-Chlorotoluene
 Concen: 0.050 ppbv
 RT: 15.62 min Scan# 3946
 Delta R.T. -0.00 min
 Lab File: VL032924.D
 Acq: 7 Dec 2018 6:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tgt Ion: 91 Resp: 14552
 Ion Ratio Lower Upper
 91 100
 126 34.3 12.3 49.3



#75
 1,3-Dichlorobenzene
 Concen: 0.062 ppbv
 RT: 17.17 min Scan# 4426
 Delta R.T. -0.01 min
 Lab File: VL032924.D
 Acq: 7 Dec 2018 6:11

Tgt Ion: 146 Resp: 11448
 Ion Ratio Lower Upper
 146 100
 111 85.5 23.6 70.8#
 148 119.0 32.1 96.3#

