

Data File : VL032018.D

Acq On : 31 May 2018 17:23

Operator : SY/AP

Sample : VSTDIC001

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Quant Time: May 31 18:16:15 2018

Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL053118AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 03 15:52:13 2018

QLast Update : Thu May 03 15:52:13 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.86	49	1366534	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.40	114	2536598	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.37	117	2603517	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.70	95	2007228	9.94	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.40%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.15	85	175568	0.97	ppbv	96
3) Chlorodifluoromethane	3.08	51	154957	1.21	ppbv	99
4) Chloromethane	3.24	50	74506	1.10	ppbv	95
5) Vinyl Chloride	3.37	62	81488	1.07	ppbv	90
6) Bromomethane	3.59	94	55727	1.12	ppbv	90
7) Chloroethane	3.68	64	38064	1.31	ppbv #	86
8) Dichlorotetrafluoroethane	3.29	85	220732	1.23	ppbv	95
9) Propene	3.11	41	42544	0.90	ppbv	97
10) Heptane	8.36	43	153877	0.95	ppbv	100
11) Trichlorofluoromethane	4.09	101	292864	1.34	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.65	101	189177	1.23	ppbv	96
13) Ethanol	3.74	45	10944	0.62	ppbv #	100
14) Bromoethene	3.87	108	73467	1.29	ppbv	98
15) Acetone	3.99	43	212069	1.10	ppbv	99
16) 1,3-Butadiene	3.44	39	61547	0.99	ppbv	85
17) tert-Butyl alcohol	4.46	59	86813	1.09	ppbv	94
18) 1,1-Dichloroethene	4.44	96	80826	1.20	ppbv	96
19) Isopropyl Alcohol	4.12	45	121127	1.16	ppbv #	93
20) Methylene Chloride	4.50	84	81936	1.26	ppbv	91
21) Allyl Chloride	4.57	41	124932	1.13	ppbv	99
22) trans-1,2-Dichloroethene	5.06	96	85862	1.15	ppbv	94
23) Vinyl Acetate	5.25	43	236675	1.07	ppbv #	96
24) 1,1-Dichloroethane	5.19	63	235295	1.14	ppbv	98
25) Ethyl Acetate	5.88	43	340166	1.03	ppbv	99
26) Hexane	5.88	57	158408	1.02	ppbv	97
27) Carbon Disulfide	4.72	76	209267	1.20	ppbv #	91
28) Methyl tert-Butyl Ether	5.22	73	196543	1.03	ppbv	99
29) Chloroform	5.95	83	266441	1.08	ppbv	99
30) Cyclohexane	7.37	84	84212	0.81	ppbv	93
31) cis-1,2-Dichloroethene	5.74	61	140057	0.98	ppbv #	87
32) 1,1,1-Trichloroethane	6.73	97	215019	0.95	ppbv	99
34) 2-Butanone	5.43	43	211942	1.01	ppbv	98
35) Carbon Tetrachloride	7.24	117	215680	1.07	ppbv	95
36) Benzene	7.12	78	233790	0.98	ppbv	95
37) 1,2-Dichloroethane	6.52	62	179402	1.04	ppbv	99
38) Trichloroethene	8.08	130	91749	1.01	ppbv	90
39) 1,2-Dichloropropane	7.85	63	55324	0.67	ppbv	96
40) 1,4-Dioxane	8.10	88	30739	0.82	ppbv #	1
41) Tetrahydrofuran	6.27	42	74447	0.82	ppbv	98
42) Bromodichloromethane	8.03	83	216643	1.13	ppbv	98
43) Methyl Methacrylate	8.25	69	36155	0.45	ppbv #	1

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Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL053118AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu May 03 15:52:13 2018

QLast Update : Thu May 03 15:52:13 2018

Response via : Initial Calibration

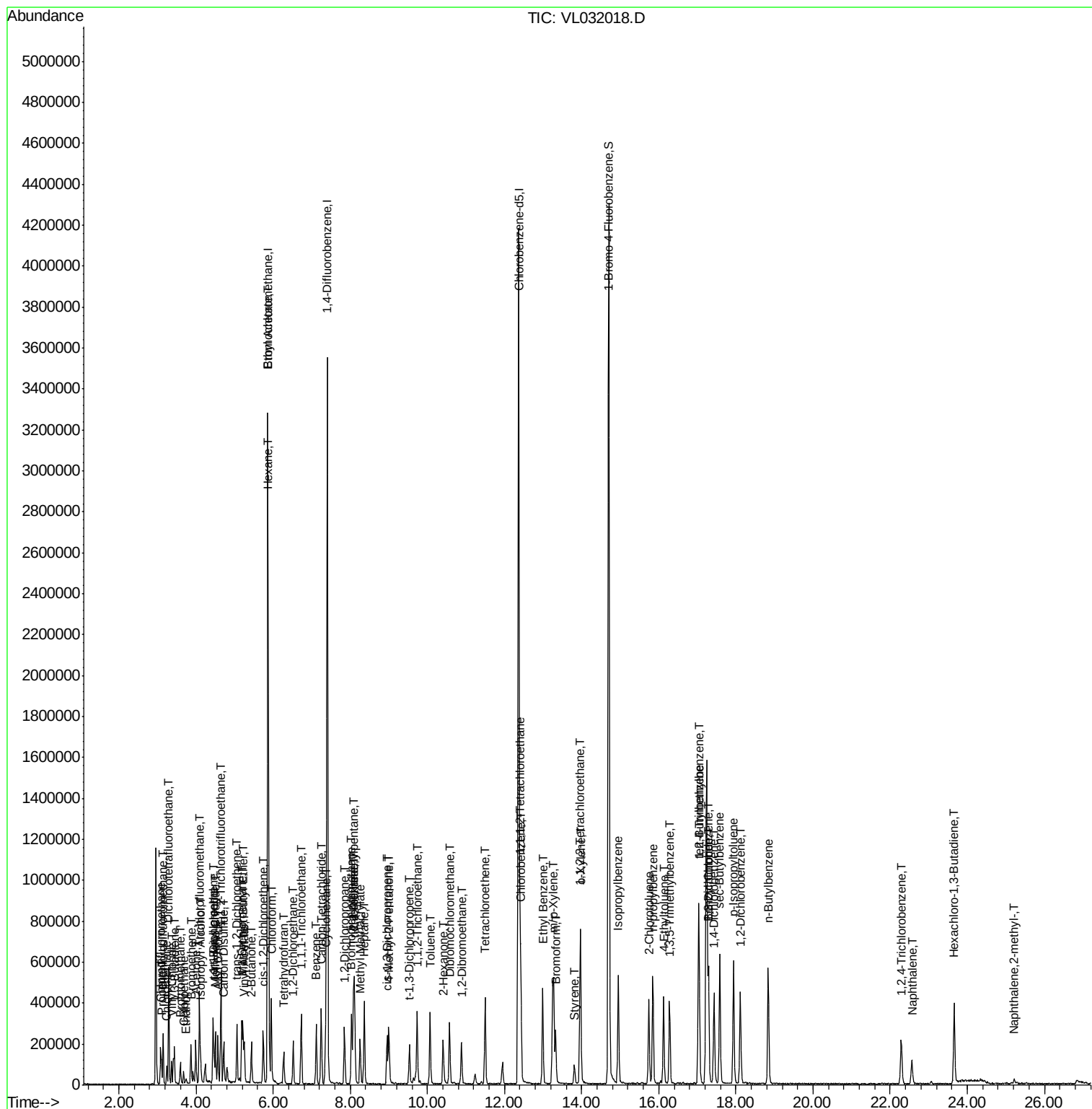
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.11	57	419695	1.09	ppbv	97
45) t-1,3-Dichloropropene	9.54	75	97827	0.92	ppbv	96
46) cis-1,3-Dichloropropene	8.96	75	130808	0.99	ppbv #	90
47) 1,1,2-Trichloroethane	9.74	97	53411	0.54	ppbv	94
48) Dibromochloromethane	10.57	129	177181	1.12	ppbv	100
49) Bromoform	13.32	173	131959	1.08	ppbv	98
50) 4-Methyl-2-Pentanone	9.00	43	200100	1.01	ppbv	100
51) 2-Hexanone	10.40	43	175050	0.97	ppbv #	93
52) Tetrachloroethene	11.50	164	59632	0.67	ppbv	93
53) Toluene	10.07	91	251863	0.98	ppbv	99
54) 1,2-Dibromoethane	10.88	107	158260	1.08	ppbv	90
56) 1,1,1,2-Tetrachloroethane	12.40	131	133770	1.13	ppbv #	1
57) Chlorobenzene	12.43	112	255262	1.14	ppbv	90
58) Ethyl Benzene	12.99	91	368585	0.99	ppbv	99
59) m/p-Xylene	13.27	91	694527m	2.20	ppbv	
60) o-Xylene	13.97	91	326884	1.03	ppbv	98
61) Styrene	13.81	104	29320	0.46	ppbv #	41
62) Isopropylbenzene	14.95	105	415829	1.03	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.96	83	256968	1.14	ppbv	100
64) n-propylbenzene	15.85	120	72872	0.72	ppbv #	10
65) tert-Butylbenzene	17.03	119	379416	1.05	ppbv	100
66) Benzyl Chloride	17.28	91	36950	1.12	ppbv #	92
67) sec-Butylbenzene	17.58	105	538872	1.07	ppbv	100
69) p-Isopropyltoluene	17.94	119	402723	1.00	ppbv	96
70) n-Butylbenzene	18.84	91	418062	1.00	ppbv	99
71) 2-Chlorotoluene	15.75	91	301303	1.01	ppbv	99
72) 4-Ethyltoluene	16.12	105	313851	0.97	ppbv	98
73) 1,3,5-Trimethylbenzene	16.29	105	289336	0.97	ppbv	95
74) 1,2,4-Trimethylbenzene	17.04	105	179385	0.54	ppbv	94
75) 1,3-Dichlorobenzene	17.29	146	125058	0.61	ppbv #	23
76) 1,4-Dichlorobenzene	17.43	146	154172	0.77	ppbv	66
77) 1,2-Dichlorobenzene	18.11	146	223157	1.09	ppbv	99
78) Hexachloro-1,3-Butadiene	23.66	225	98273	1.06	ppbv	98
79) Naphthalene	22.56	128	143541m	0.63	ppbv	
80) Naphthalene,2-methyl-	25.21	142	11750	0.21	ppbv #	95
81) 1,2,4-Trichlorobenzene	22.29	180	97638m	0.77	ppbv	

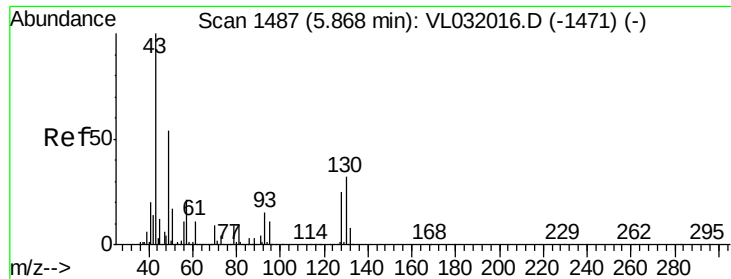
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.86 min Scan# 1486

Delta R.T. -0.02 min

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ClientSampleId :

VSTDIC001

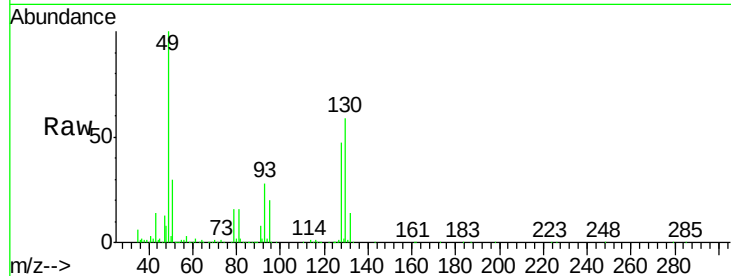
Tgt Ion: 49 Resp: 1366534

Ion Ratio Lower Upper

49 100

128 49.0 24.1 72.3

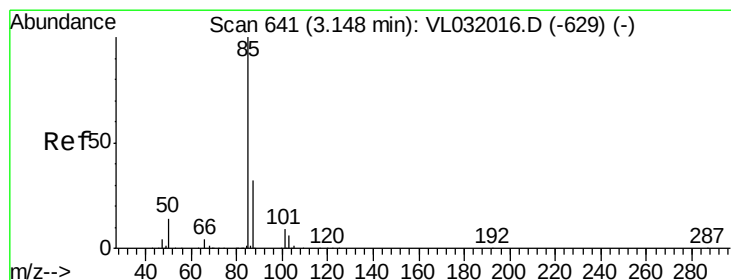
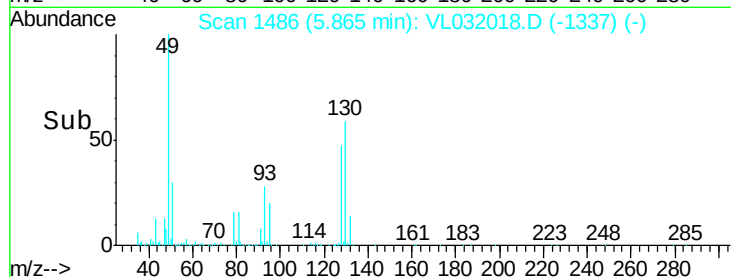
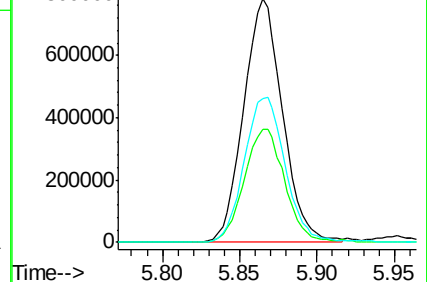
130 63.6 30.7 92.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.97 ppbv

RT: 3.15 min Scan# 641

Delta R.T. -0.01 min

Lab File: VL032018.D

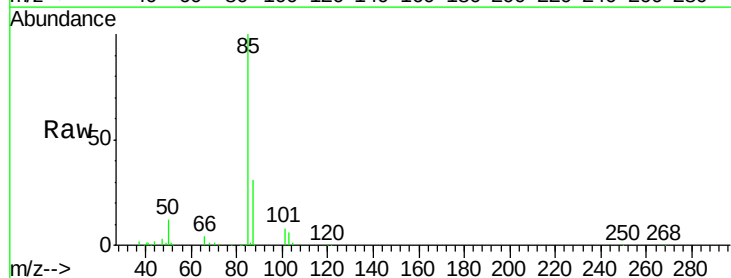
Acq: 31 May 2018 17:23

Tgt Ion: 85 Resp: 175568

Ion Ratio Lower Upper

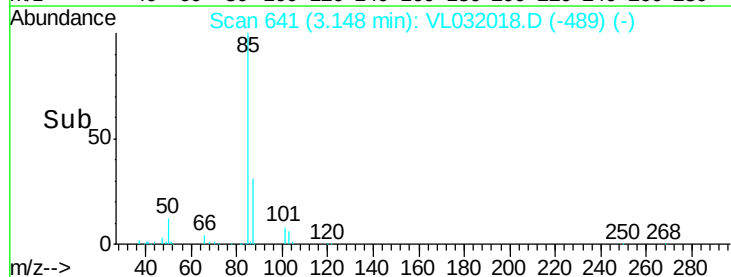
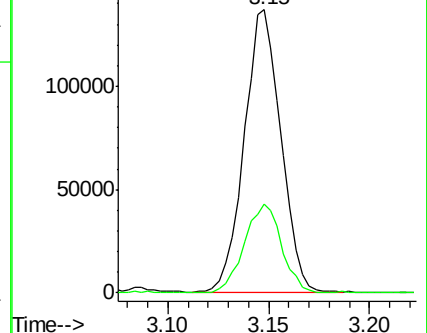
85 100

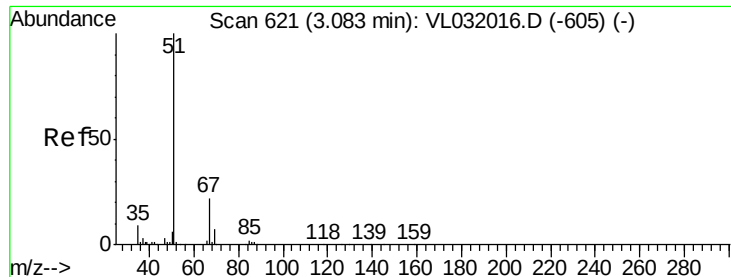
87 31.3 26.8 40.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.21 ppbv

RT: 3.08 min Scan# 621

Delta R.T. -0.01 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

Instrument :

MSVOA_L

ClientSampleId :

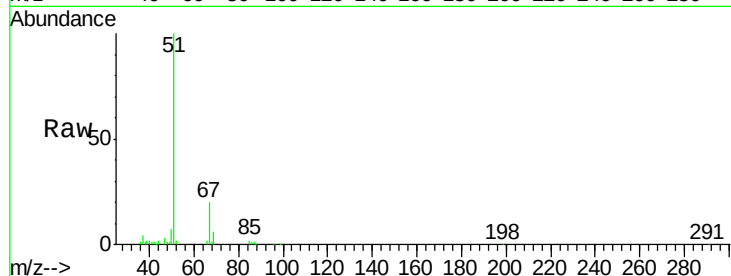
VSTDIC001

Tgt Ion: 51 Resp: 154957

Ion Ratio Lower Upper

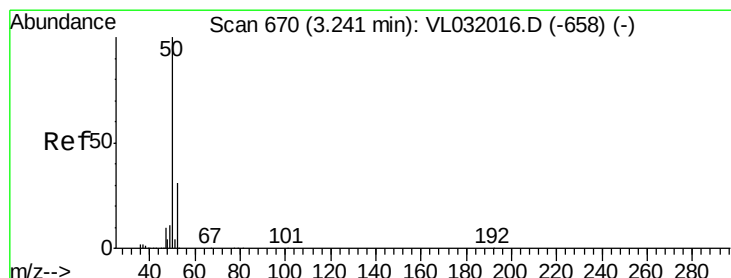
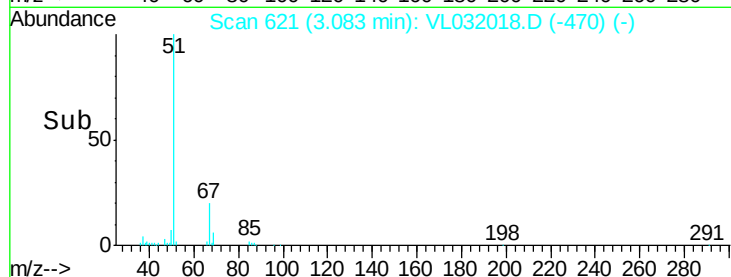
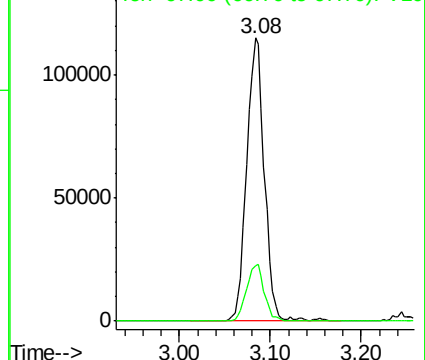
51 100

67 20.3 15.9 23.9



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 1.10 ppbv

RT: 3.24 min Scan# 670

Delta R.T. -0.01 min

Lab File: VL032018.D

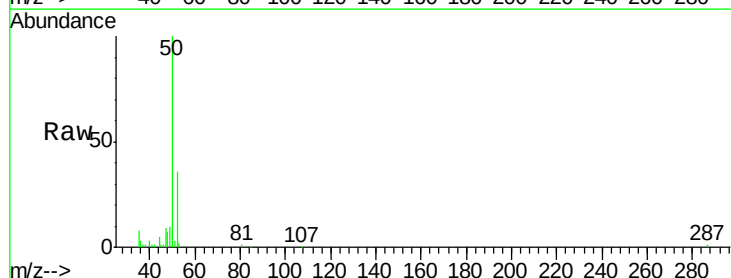
Acq: 31 May 2018 17:23

Tgt Ion: 50 Resp: 74506

Ion Ratio Lower Upper

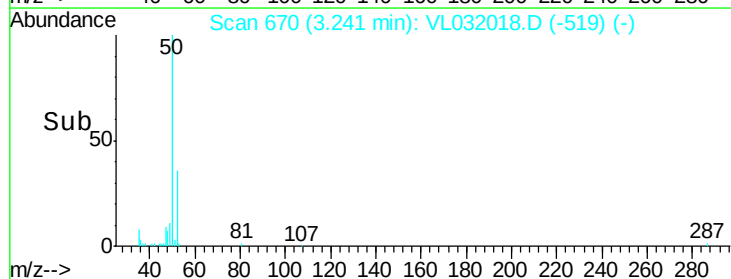
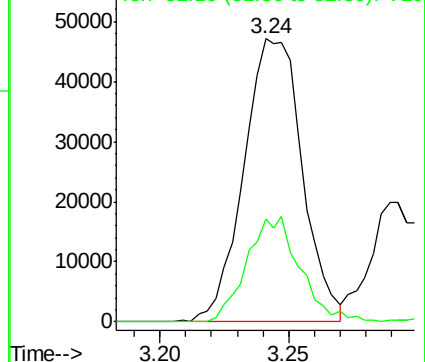
50 100

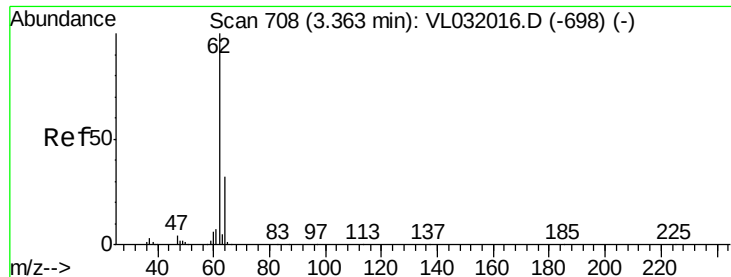
52 36.3 26.6 39.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 1.07 ppbv

RT: 3.37 min Scan# 709

Delta R.T. -0.01 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

Instrument :

MSVOA_L

ClientSampleId :

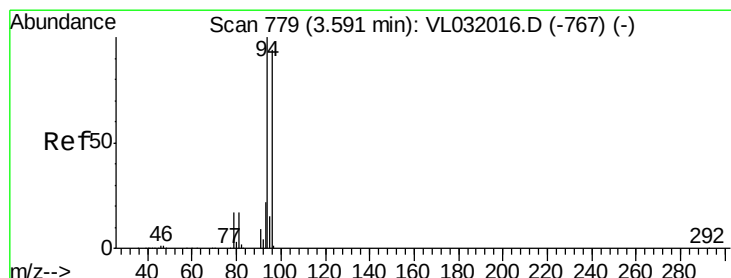
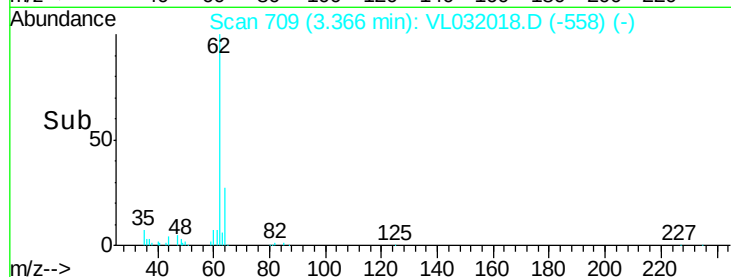
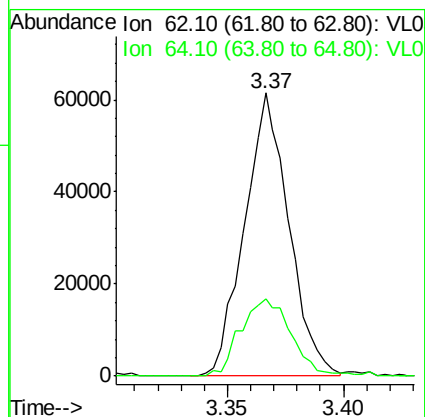
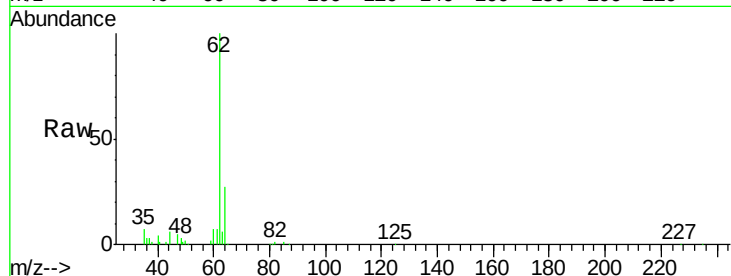
VSTDIC001

Tgt Ion: 62 Resp: 81488

Ion Ratio Lower Upper

62 100

64 27.3 26.6 39.8



#6

Bromomethane

Concen: 1.12 ppbv

RT: 3.59 min Scan# 780

Delta R.T. -0.01 min

Lab File: VL032018.D

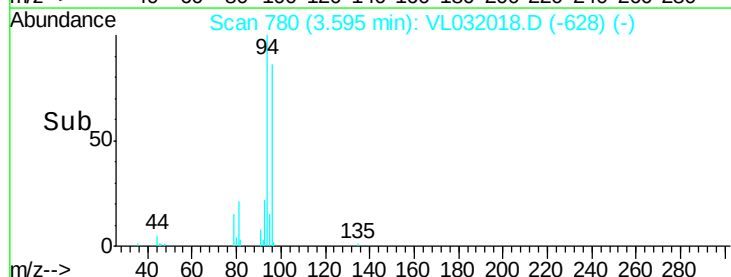
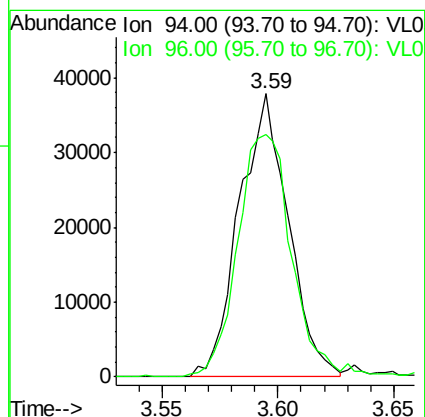
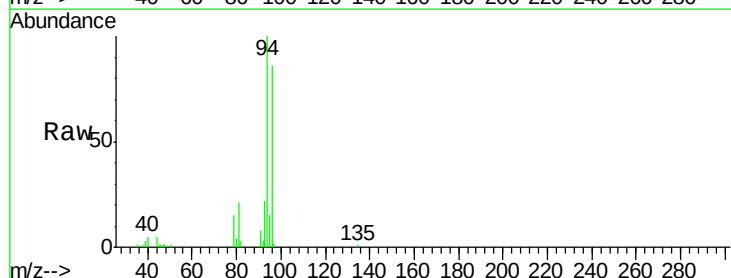
Acq: 31 May 2018 17:23

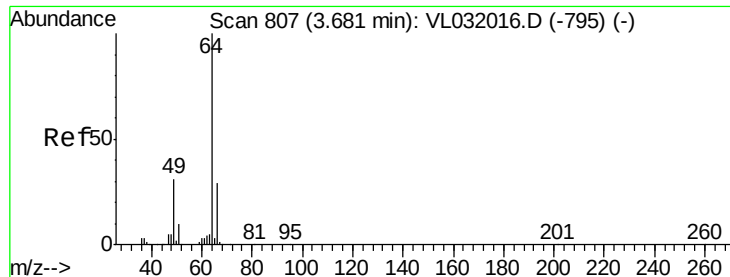
Tgt Ion: 94 Resp: 55727

Ion Ratio Lower Upper

94 100

96 84.5 75.5 113.3





#7

Chloroethane

Concen: 1.31 ppbv

RT: 3.68 min Scan# 807

Delta R.T. -0.01 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

Instrument :

MSVOA_L

ClientSampleId :

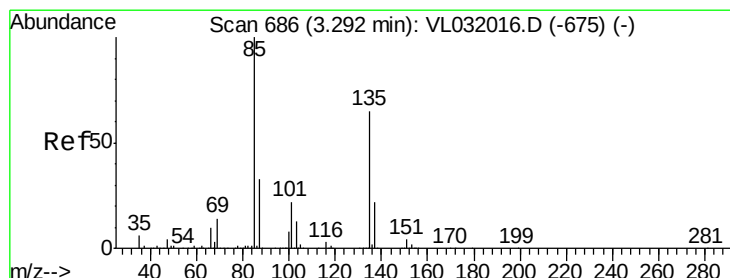
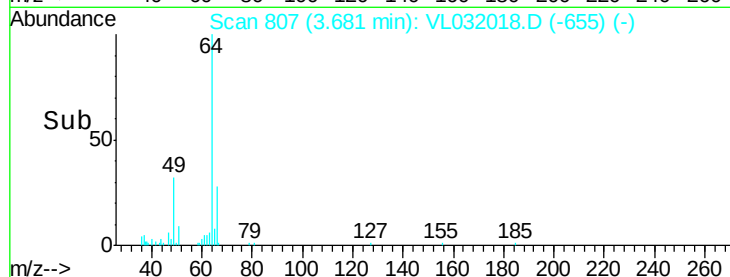
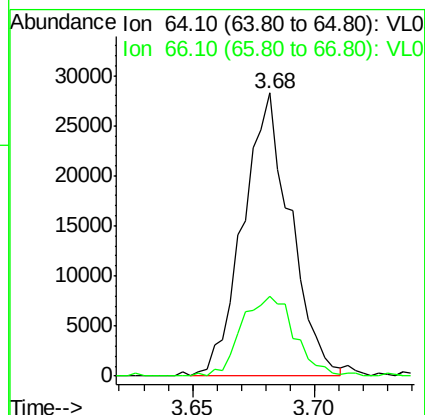
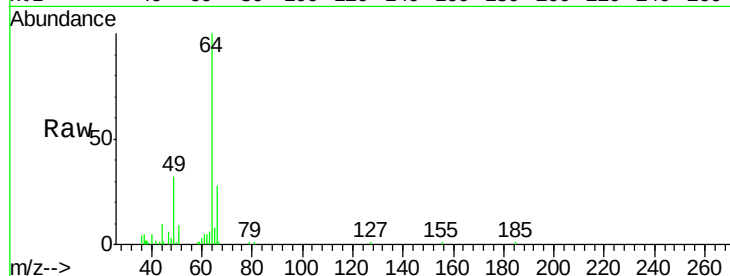
VSTDIC001

Tgt Ion: 64 Resp: 38064

Ion Ratio Lower Upper

64 100

66 28.8 29.6 44.4#



#8

Dichlorotetrafluoroethane

Concen: 1.23 ppbv

RT: 3.29 min Scan# 686

Delta R.T. -0.01 min

Lab File: VL032018.D

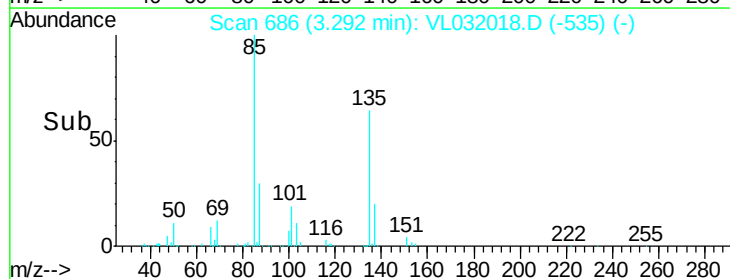
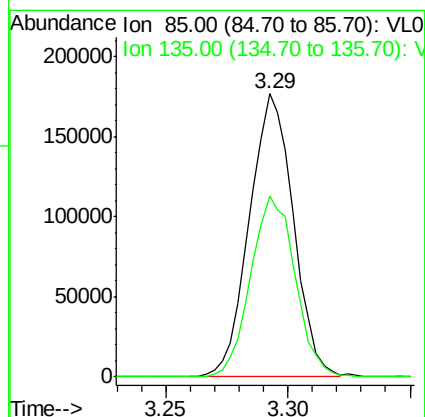
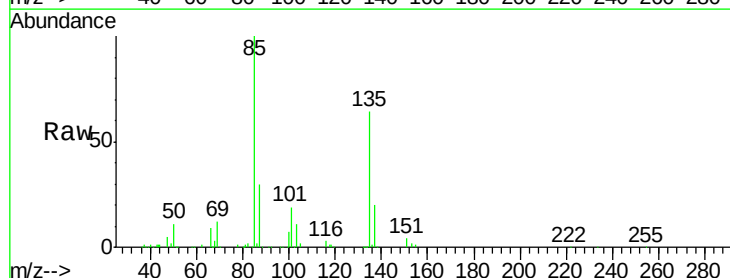
Acq: 31 May 2018 17:23

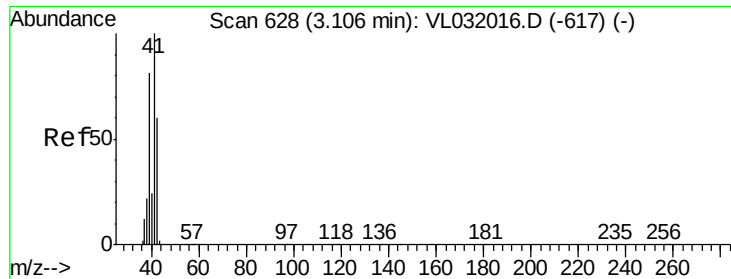
Tgt Ion: 85 Resp: 220732

Ion Ratio Lower Upper

85 100

135 64.8 54.8 82.2





#9

Propene

Concen: 0.90 ppbv

RT: 3.11 min Scan# 628

Delta R.T. -0.01 min

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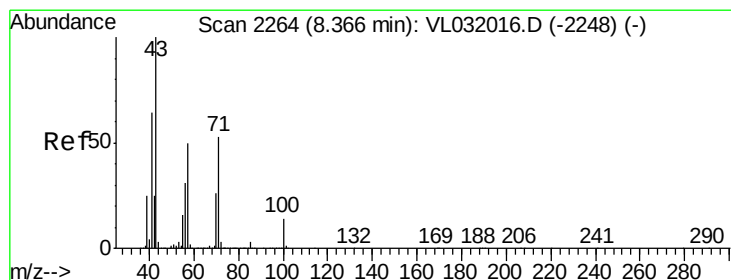
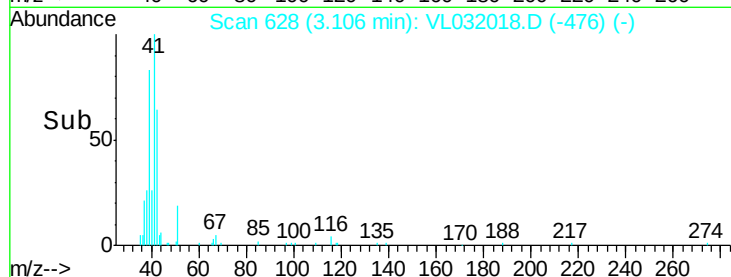
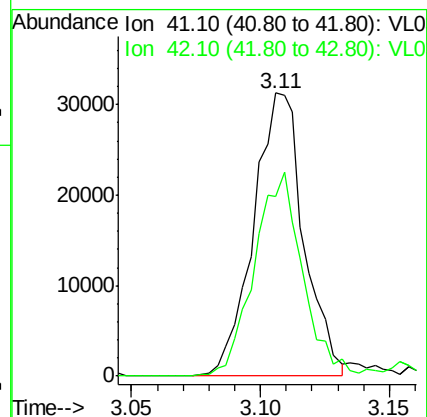
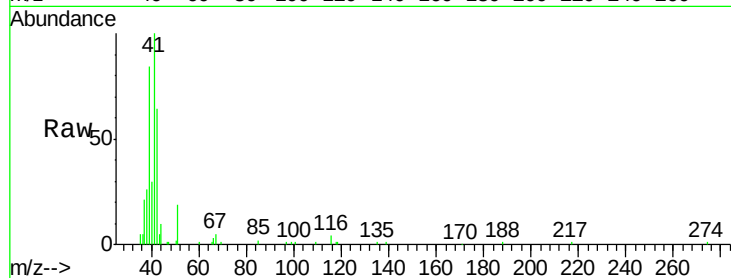
VSTDIC001

Tgt Ion: 41 Resp: 42544

Ion Ratio Lower Upper

41 100

42 69.9 53.9 80.9



#10

Heptane

Concen: 0.95 ppbv

RT: 8.36 min Scan# 2263

Delta R.T. -0.02 min

Lab File: VL032018.D

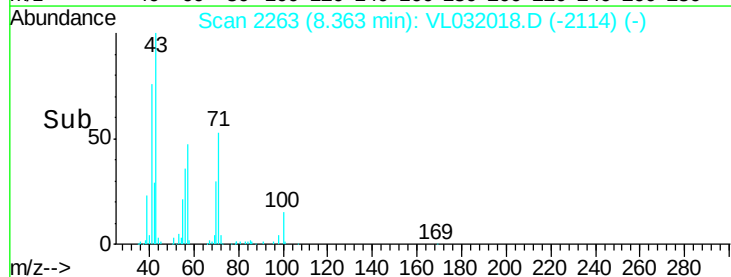
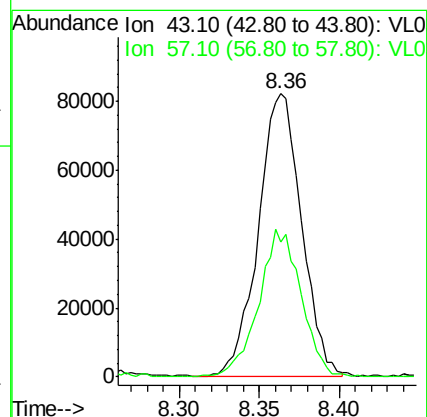
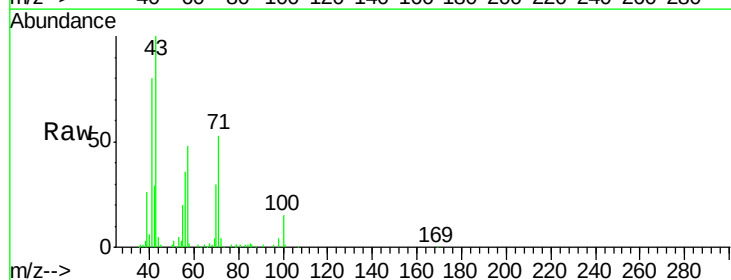
Acq: 31 May 2018 17:23

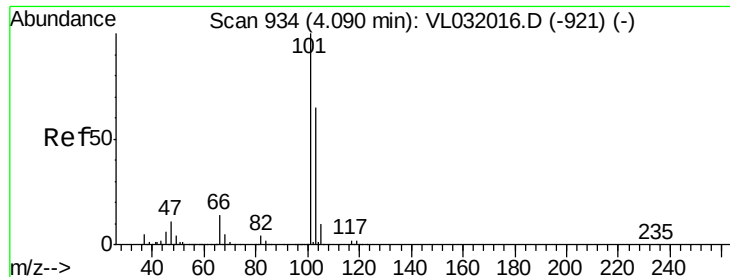
Tgt Ion: 43 Resp: 153877

Ion Ratio Lower Upper

43 100

57 50.9 40.7 61.1





#11

Trichlorofluoromethane

Concen: 1.34 ppbv

RT: 4.09 min Scan# 934

Delta R.T. -0.01 min

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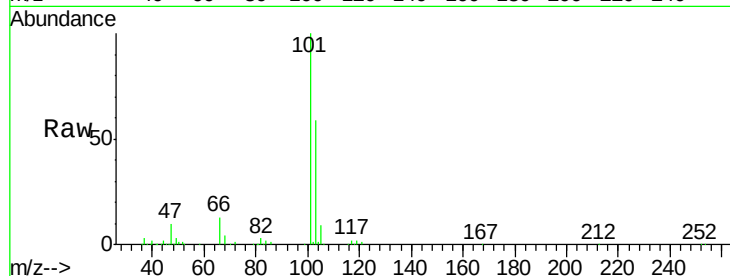
VSTDIC001

Tgt Ion:101 Resp: 292864

Ion Ratio Lower Upper

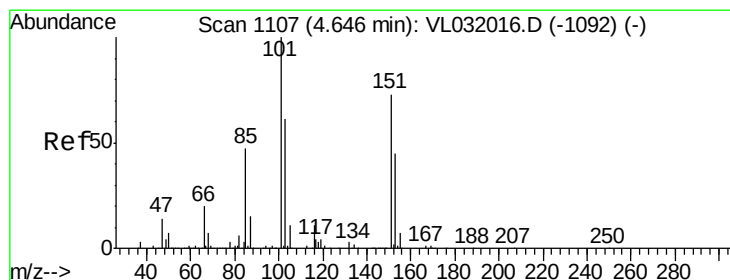
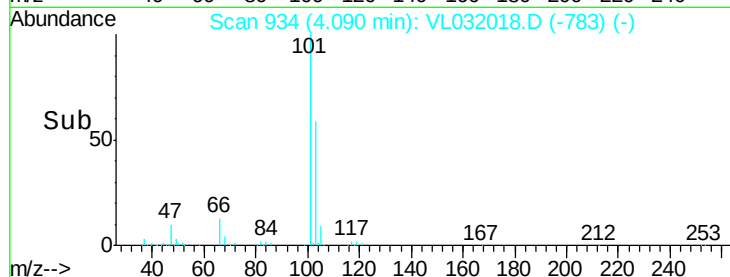
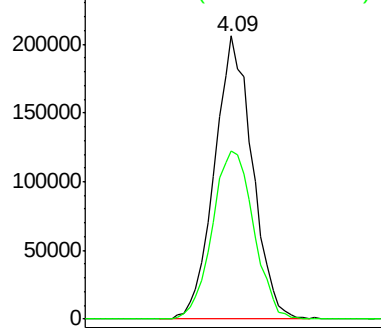
101 100

103 59.4 50.7 76.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 1.23 ppbv

RT: 4.65 min Scan# 1107

Delta R.T. -0.01 min

Lab File: VL032018.D

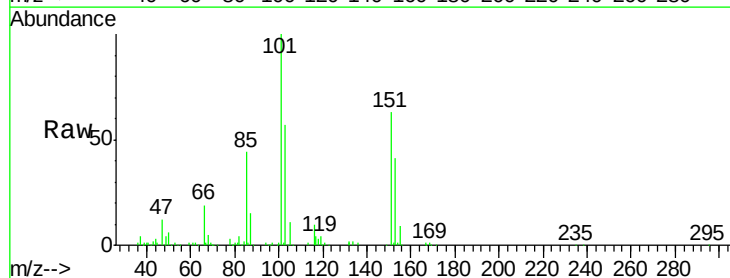
Acq: 31 May 2018 17:23

Tgt Ion:101 Resp: 189177

Ion Ratio Lower Upper

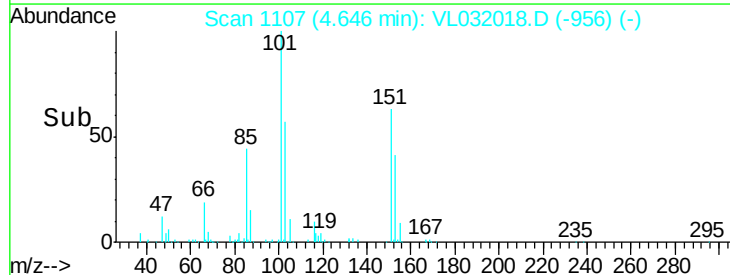
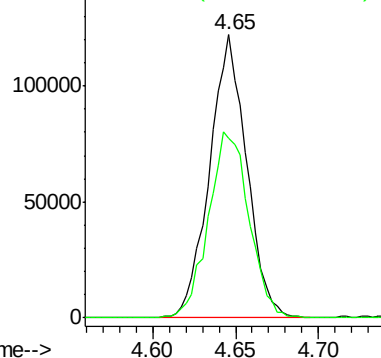
101 100

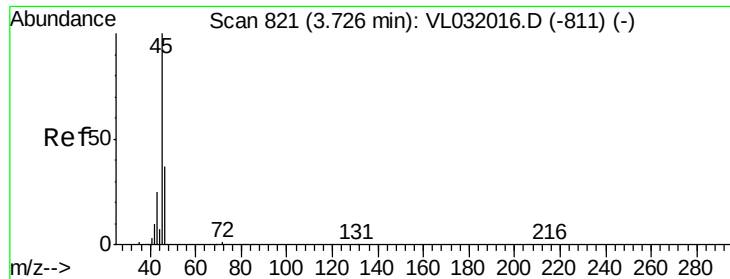
151 72.1 60.2 90.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

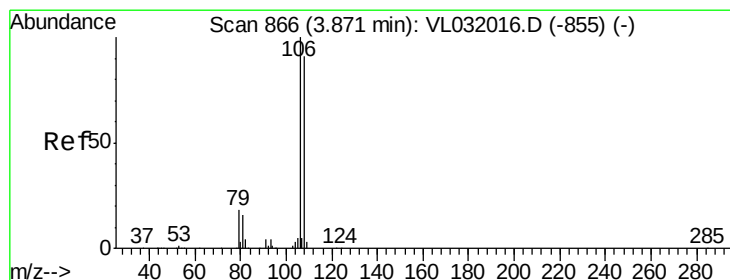
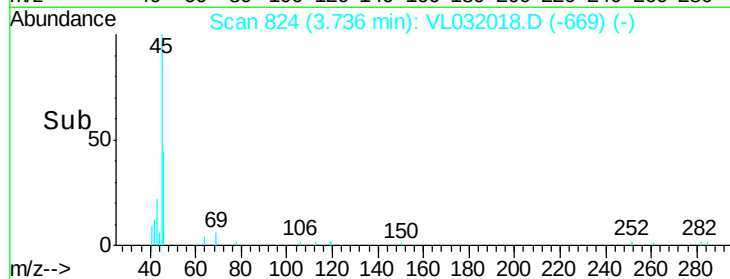
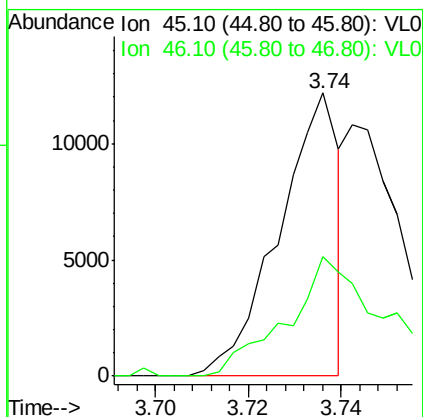
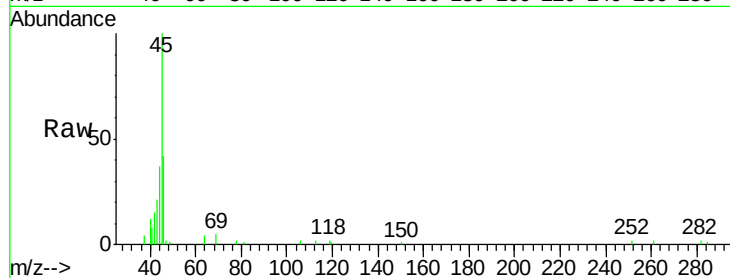




#13
Ethanol
Concen: 0.62 ppbv
RT: 3.74 min Scan# 824
Delta R.T. -0.00 min
Lab File: VL032018.D
Acq: 31 May 2018 17:23

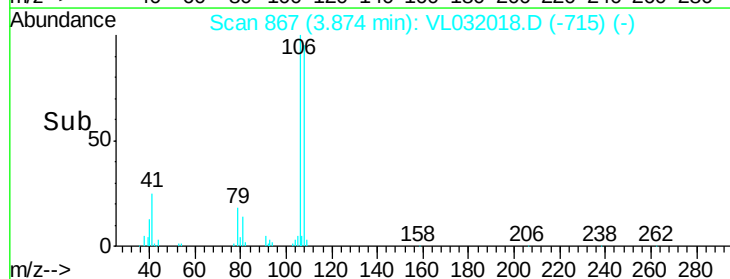
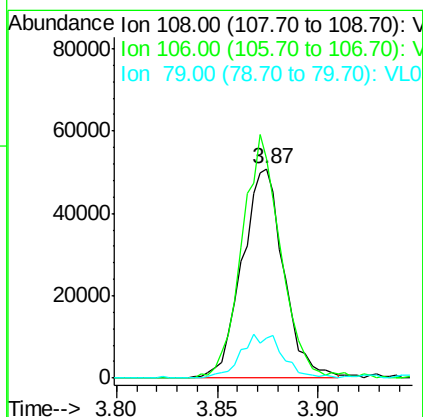
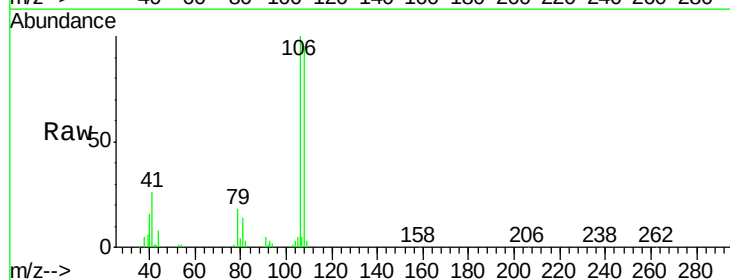
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

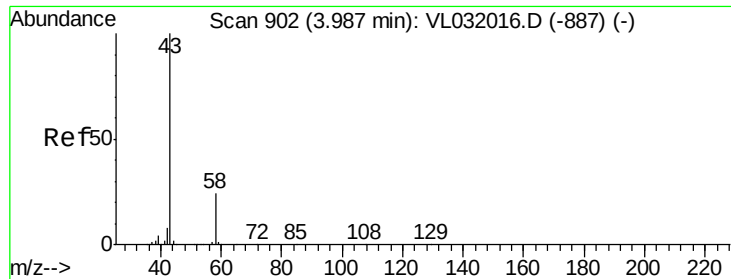
Tgt Ion: 45 Resp: 10944
Ion Ratio Lower Upper
45 100
46 81.2 0.0 0.0#



#14
Bromoethene
Concen: 1.29 ppbv
RT: 3.87 min Scan# 867
Delta R.T. -0.01 min
Lab File: VL032018.D
Acq: 31 May 2018 17:23

Tgt Ion: 108 Resp: 73467
Ion Ratio Lower Upper
108 100
106 110.3 86.8 130.2
79 21.2 14.7 22.1

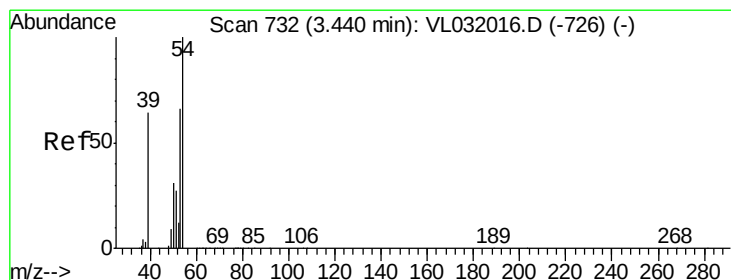
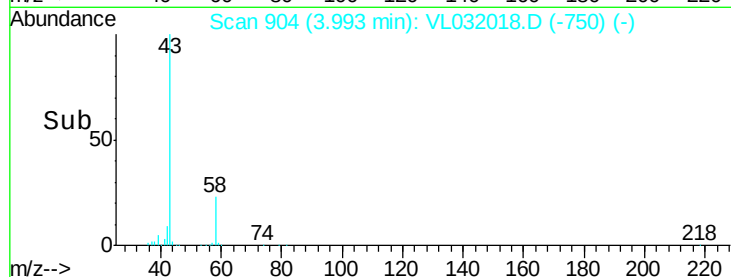
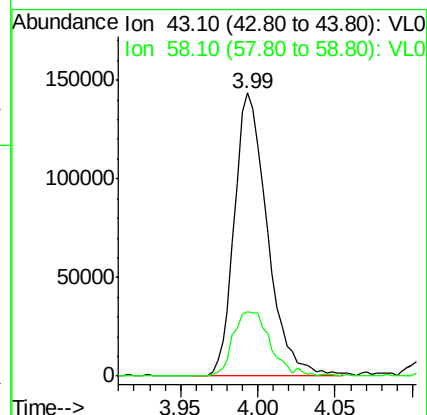
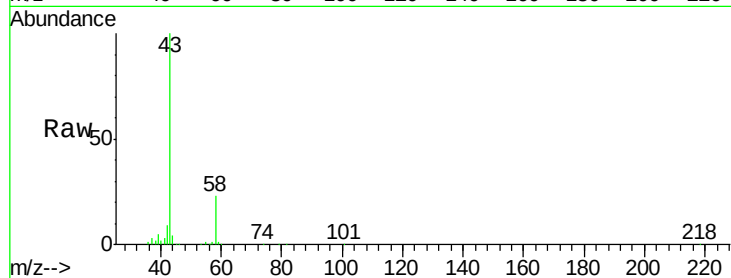




#15
Acetone
Concen: 1.10 ppbv
RT: 3.99 min Scan# 904
Delta R.T. -0.00 min
Lab File: VL032018.D
Acq: 31 May 2018 17:23

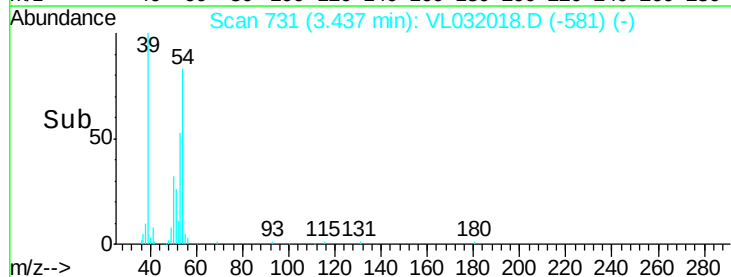
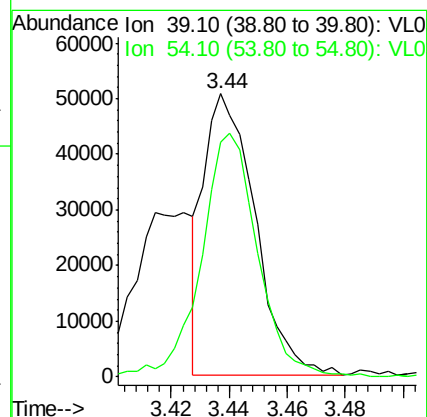
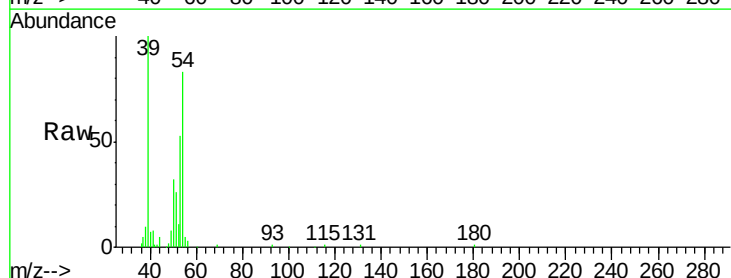
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

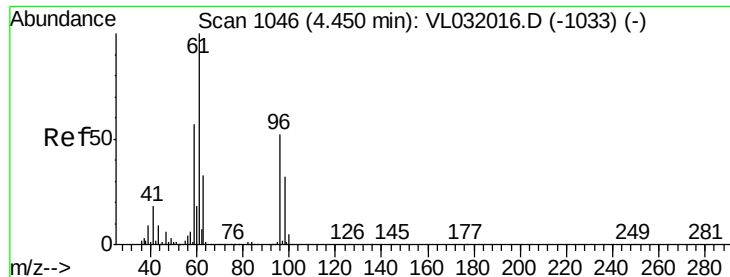
Tgt Ion: 43 Resp: 212069
Ion Ratio Lower Upper
43 100
58 26.0 21.1 31.7



#16
1,3-Butadiene
Concen: 0.99 ppbv
RT: 3.44 min Scan# 731
Delta R.T. -0.02 min
Lab File: VL032018.D
Acq: 31 May 2018 17:23

Tgt Ion: 39 Resp: 61547
Ion Ratio Lower Upper
39 100
54 96.5 66.2 99.2





#17

tert-Butyl alcohol

Concen: 1.09 ppbv

RT: 4.46 min Scan# 1049

Delta R.T. -0.00 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

Instrument :

MSVOA_L

ClientSampleId :

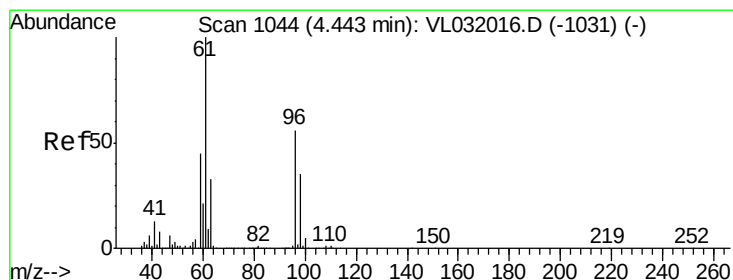
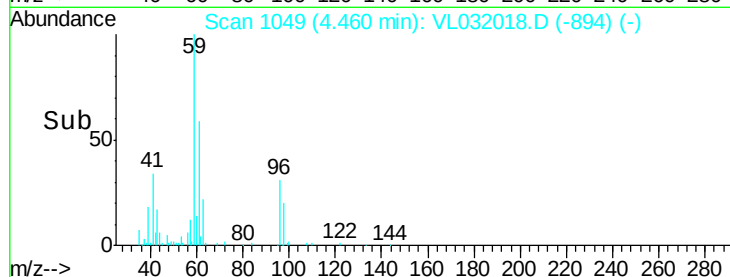
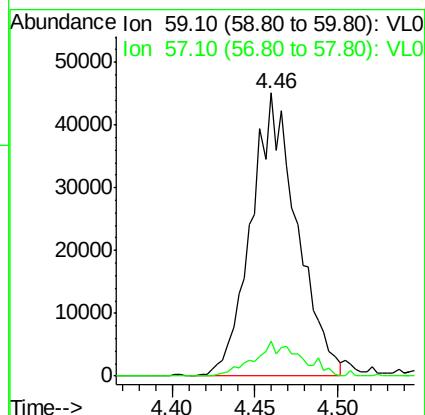
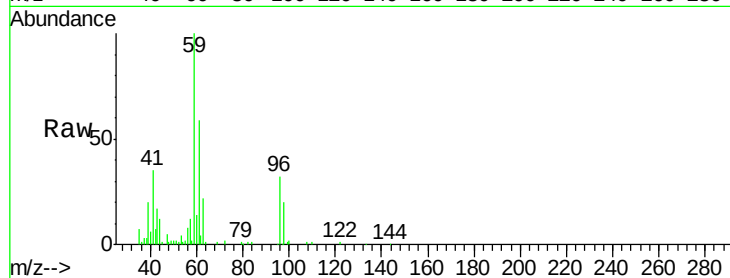
VSTDIC001

Tgt Ion: 59 Resp: 86813

Ion Ratio Lower Upper

59 100

57 12.5 8.3 12.5



#18

1,1-Dichloroethene

Concen: 1.20 ppbv

RT: 4.44 min Scan# 1043

Delta R.T. -0.02 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

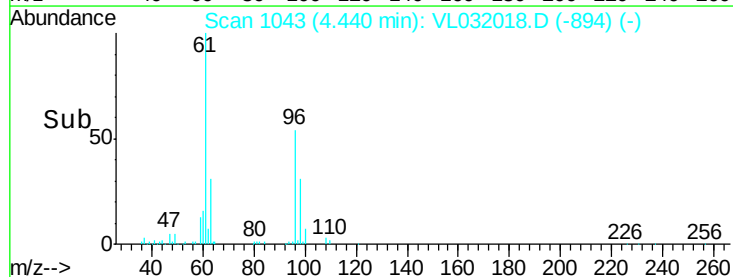
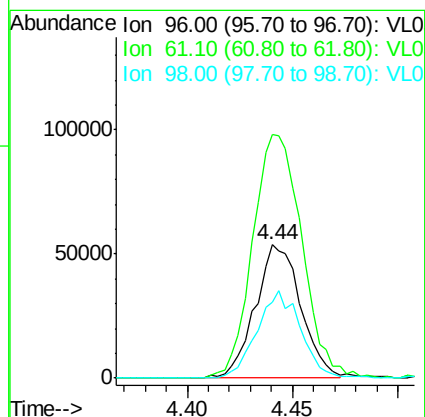
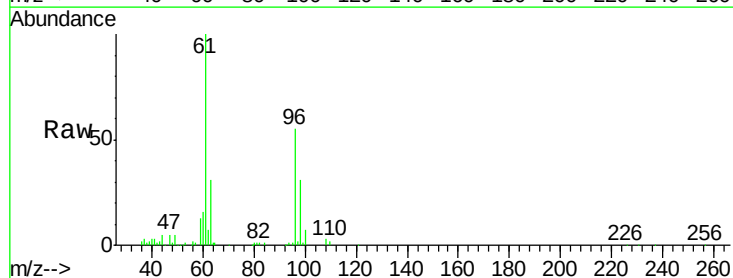
Tgt Ion: 96 Resp: 80826

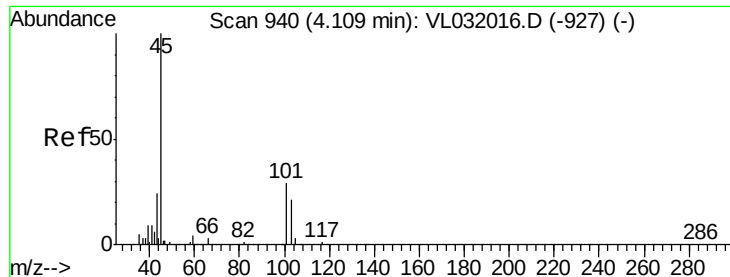
Ion Ratio Lower Upper

96 100

61 183.1 149.9 224.9

98 57.6 49.7 74.5





#19

Isopropyl Alcohol

Concen: 1.16 ppbv

RT: 4.12 min Scan# 943

Delta R.T. -0.00 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

Instrument :

MSVOA_L

ClientSampleId :

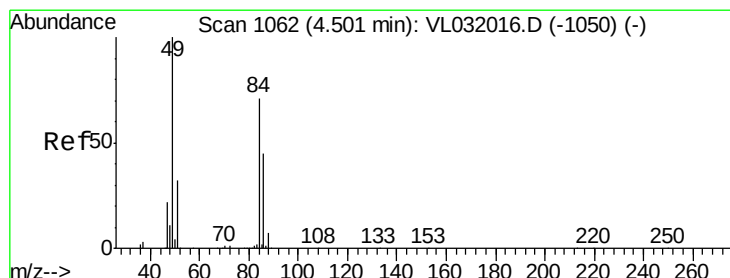
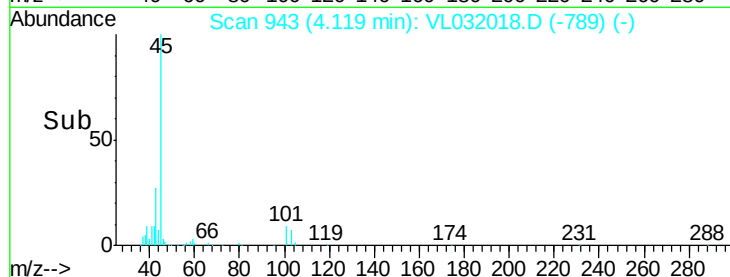
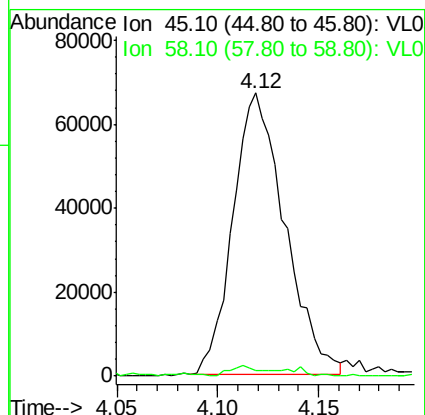
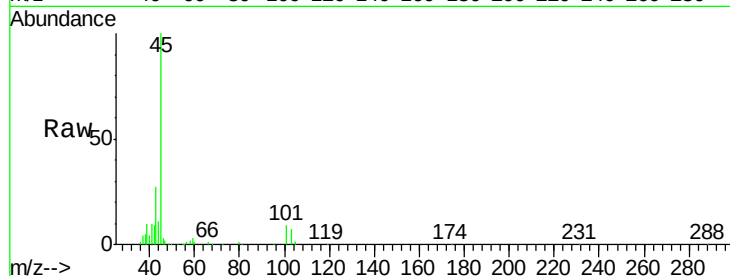
VSTDIC001

Tgt Ion: 45 Resp: 121127

Ion Ratio Lower Upper

45 100

58 4.4 1.4 2.2#



#20

Methylene Chloride

Concen: 1.26 ppbv

RT: 4.50 min Scan# 1061

Delta R.T. -0.02 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

Tgt Ion: 84 Resp: 81936

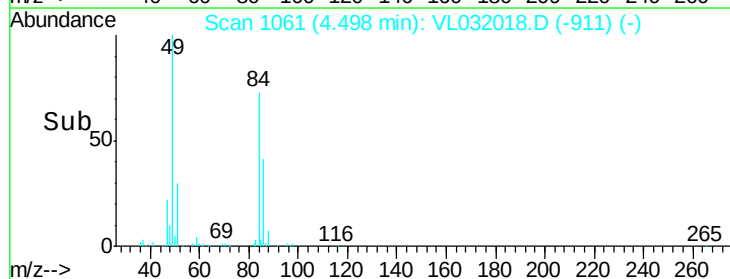
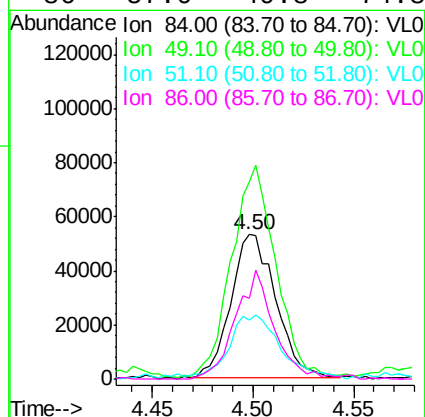
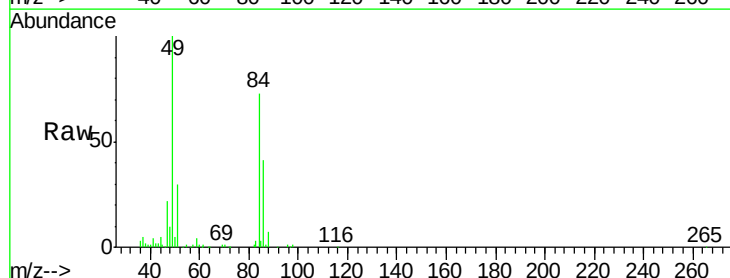
Ion Ratio Lower Upper

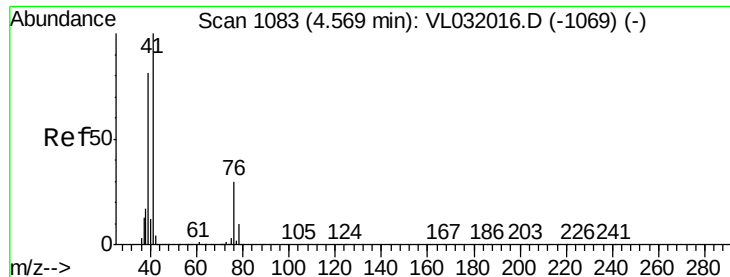
84 100

49 135.5 118.6 178.0

51 39.7 36.6 54.8

86 57.0 49.8 74.8

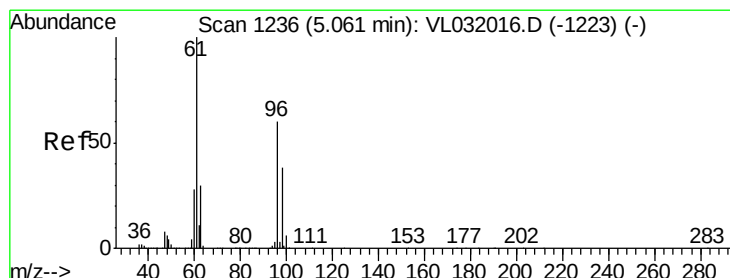
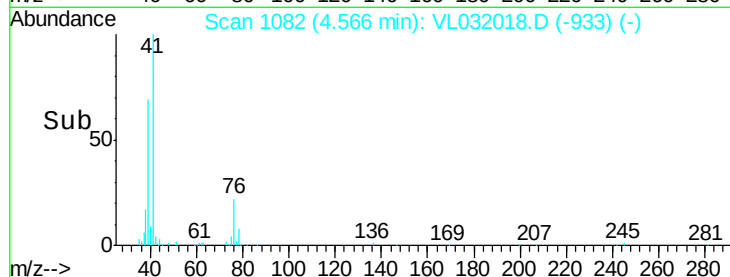
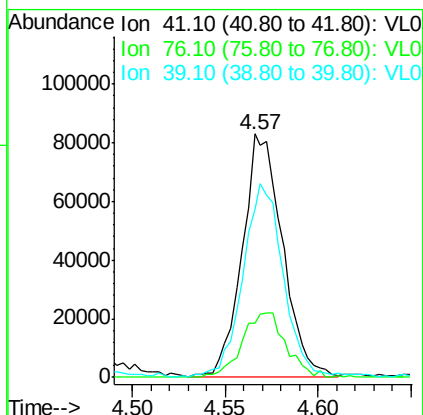
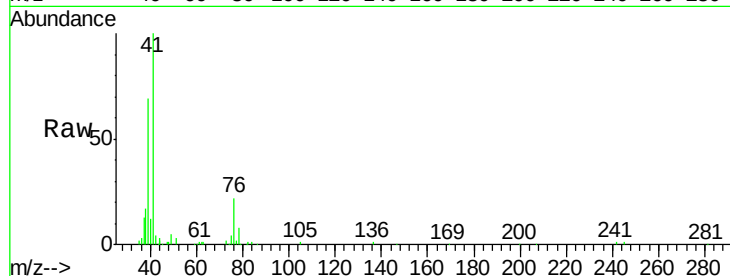




#21
 Allyl Chloride
 Concen: 1.13 ppbv
 RT: 4.57 min Scan# 1082
 Delta R.T. -0.02 min
 Lab File: VL032018.D
 Acq: 31 May 2018 17:23

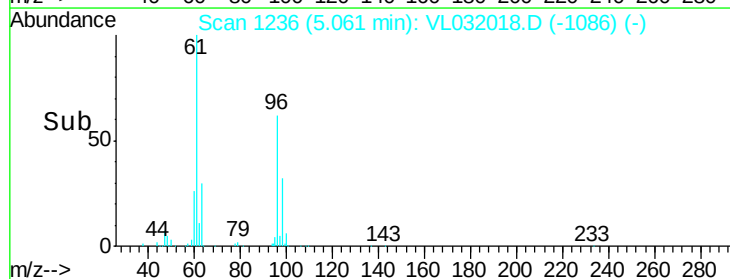
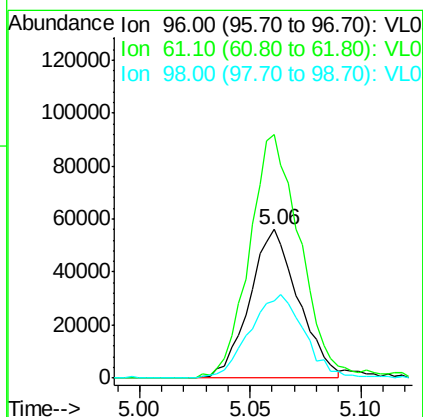
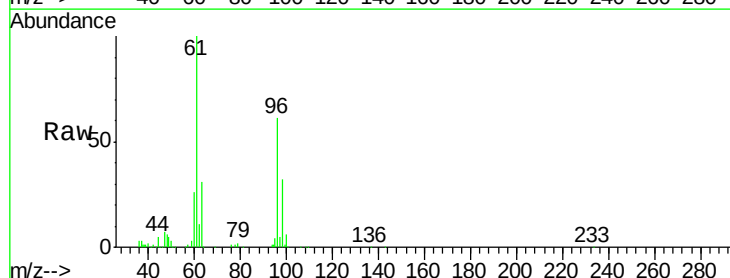
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

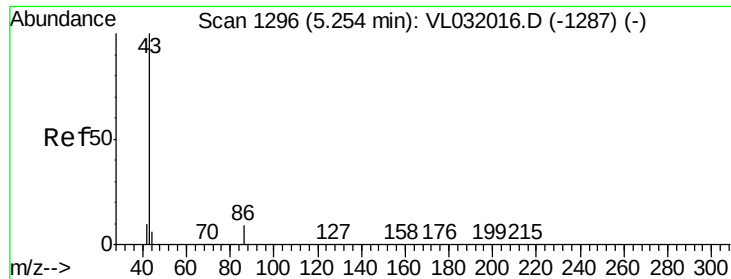
Tgt Ion: 41 Resp: 124932
 Ion Ratio Lower Upper
 41 100
 76 29.2 23.4 35.0
 39 79.9 64.5 96.7



#22
 trans-1,2-Dichloroethene
 Concen: 1.15 ppbv
 RT: 5.06 min Scan# 1236
 Delta R.T. -0.02 min
 Lab File: VL032018.D
 Acq: 31 May 2018 17:23

Tgt Ion: 96 Resp: 85862
 Ion Ratio Lower Upper
 96 100
 61 163.7 127.7 191.5
 98 52.0 49.3 73.9

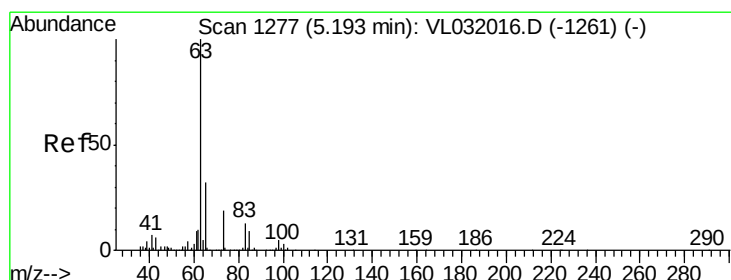
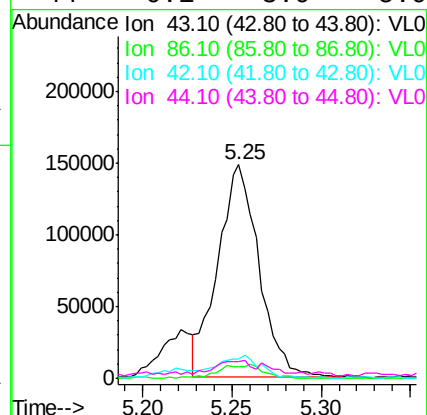
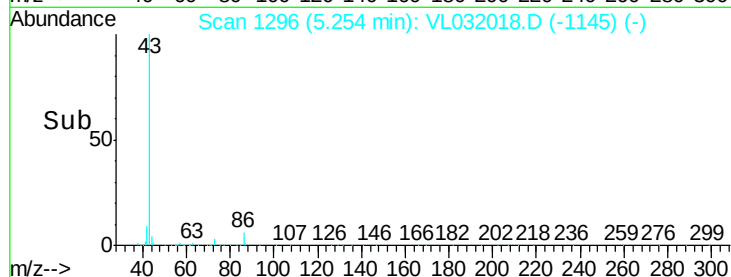
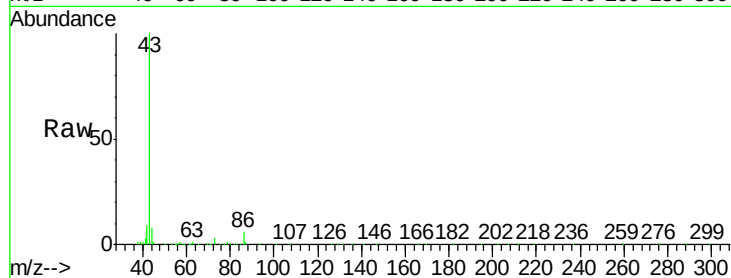




#23
 Vinyl Acetate
 Concen: 1.07 ppbv
 RT: 5.25 min Scan# 1296
 Delta R.T. -0.01 min
 Lab File: VL032018.D
 Acq: 31 May 2018 17:23

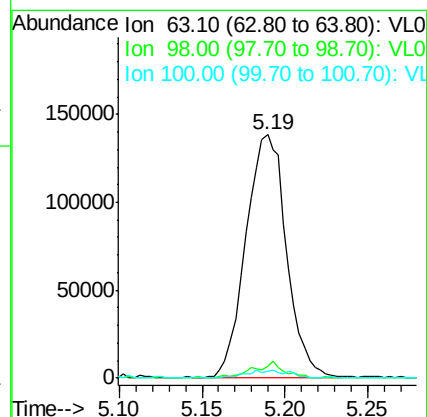
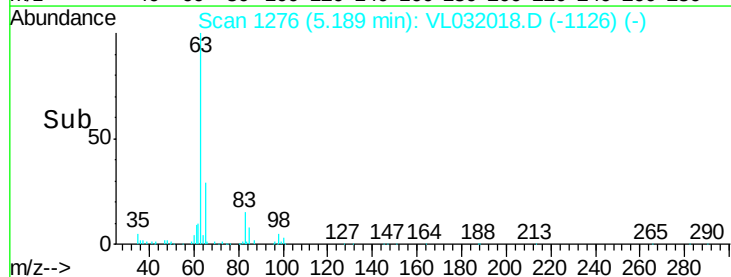
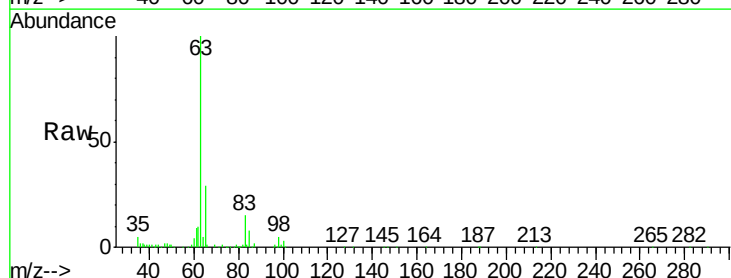
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

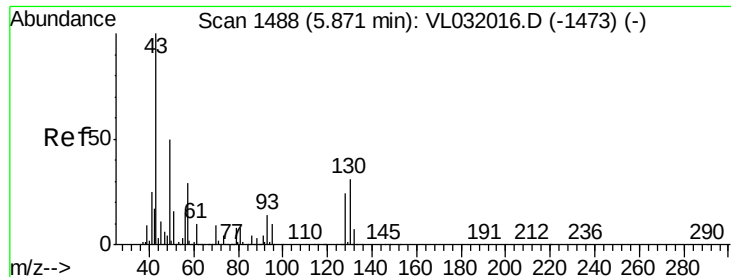
Tgt Ion:	43	Resp:	236675
Ion	Ratio	Lower	Upper
43	100		
86	5.6	6.1	9.1#
42	8.6	8.0	12.0
44	6.1	3.9	5.9#



#24
 1,1-Dichloroethane
 Concen: 1.14 ppbv
 RT: 5.19 min Scan# 1276
 Delta R.T. -0.02 min
 Lab File: VL032018.D
 Acq: 31 May 2018 17:23

Tgt Ion:	63	Resp:	235295
Ion	Ratio	Lower	Upper
63	100		
98	5.1	2.2	6.6
100	2.7	1.5	4.5

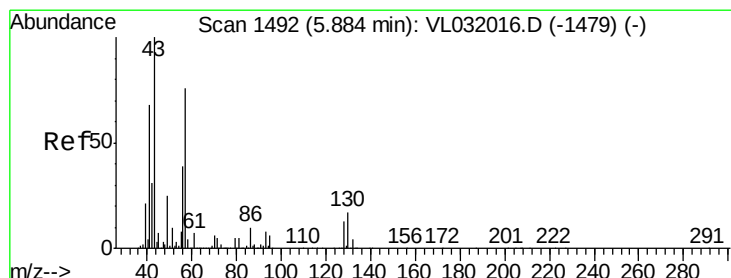
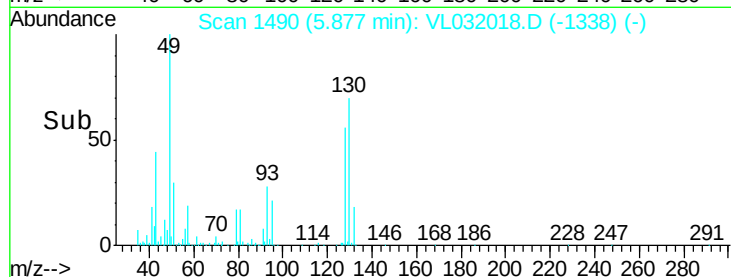
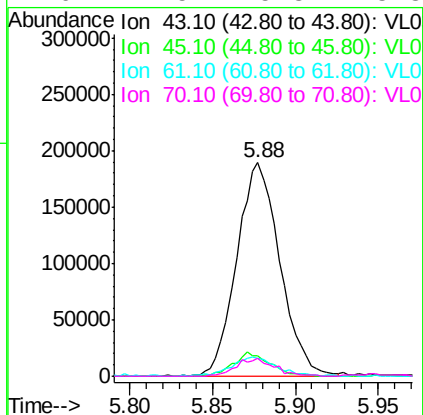
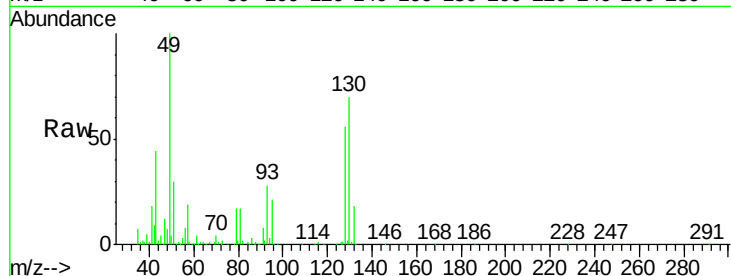




#25
Ethyl Acetate
Concen: 1.03 ppbv
RT: 5.88 min Scan# 1490
Delta R.T. -0.01 min
Lab File: VL032018.D
Acq: 31 May 2018 17:23

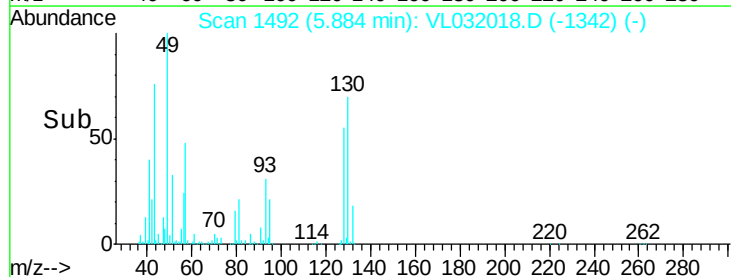
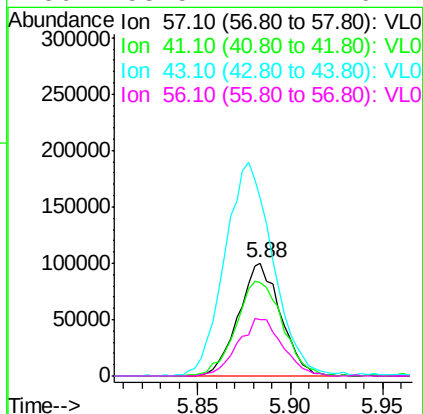
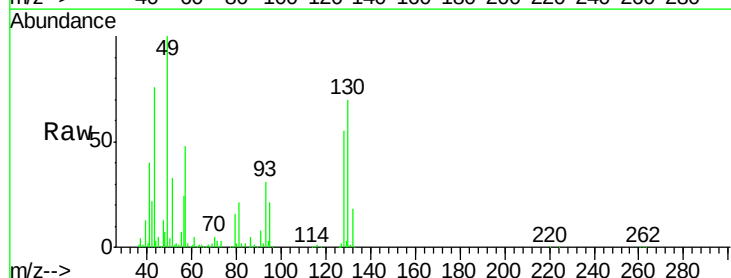
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

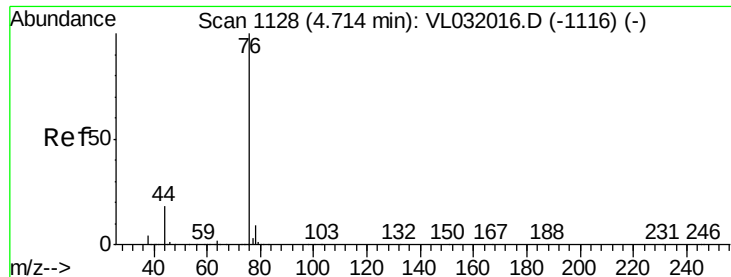
Tgt Ion:	43	Resp:	340166
Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.8	11.6
61	9.7	7.4	11.2
70	7.5	5.8	8.8



#26
Hexane
Concen: 1.02 ppbv
RT: 5.88 min Scan# 1492
Delta R.T. -0.02 min
Lab File: VL032018.D
Acq: 31 May 2018 17:23

Tgt Ion:	57	Resp:	158408
Ion	Ratio	Lower	Upper
57	100		
41	92.9	71.8	107.6
43	218.9	171.5	257.3
56	53.5	41.4	62.2





#27

Carbon Disulfide

Concen: 1.20 ppbv

RT: 4.72 min Scan# 1129

Delta R.T. -0.01 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

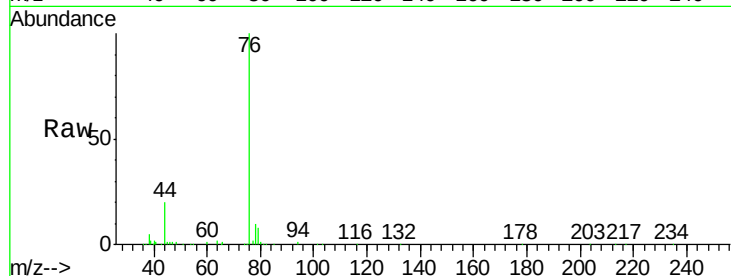
Tgt Ion: 76 Resp: 209267

Ion Ratio Lower Upper

76 100

44 24.5 15.4 23.0#

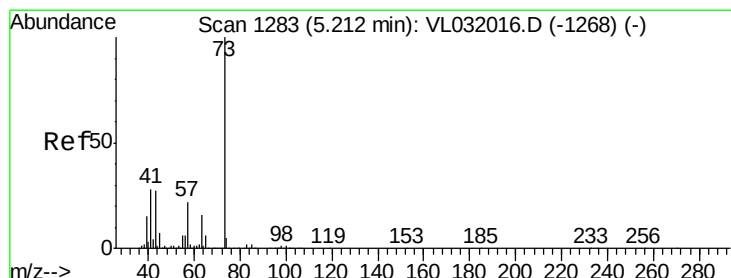
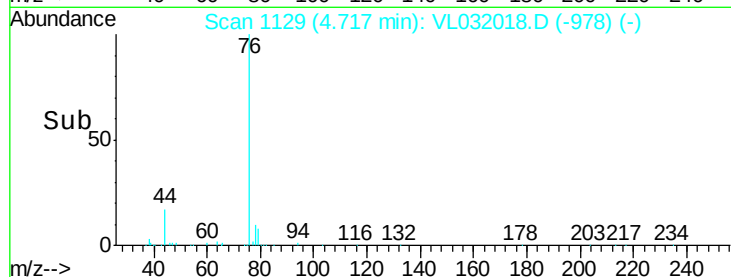
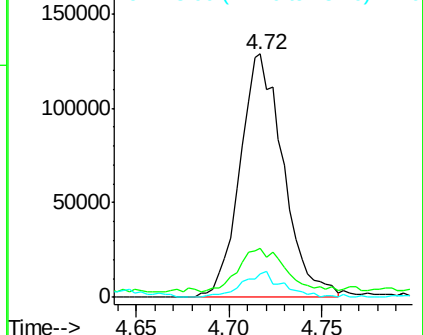
78 10.0 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 1.03 ppbv

RT: 5.22 min Scan# 1285

Delta R.T. -0.01 min

Lab File: VL032018.D

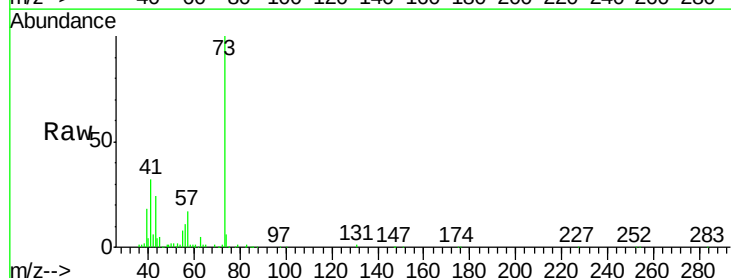
Acq: 31 May 2018 17:23

Tgt Ion: 73 Resp: 196543

Ion Ratio Lower Upper

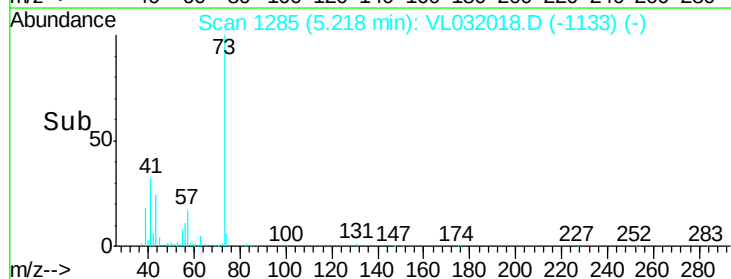
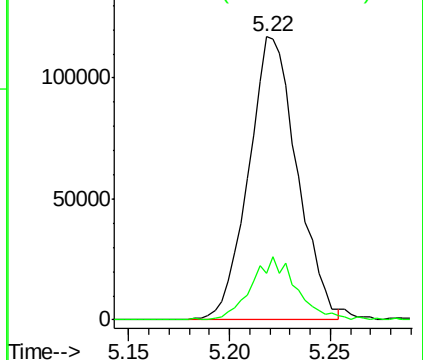
73 100

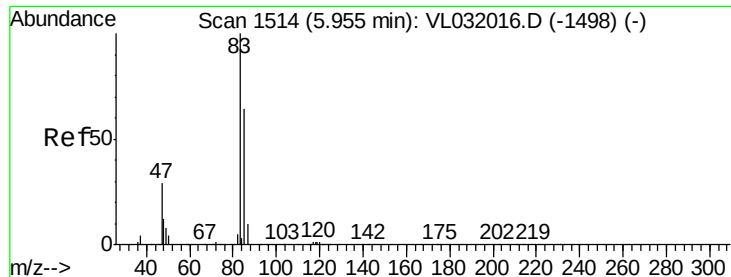
57 21.4 17.6 26.4



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 1.08 ppbv

RT: 5.95 min Scan# 1513

Delta R.T. -0.02 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

Instrument :

MSVOA_L

ClientSampleId :

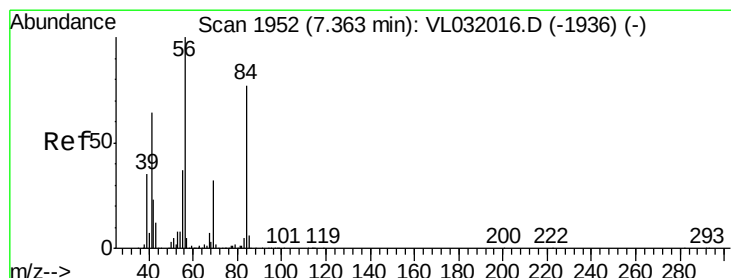
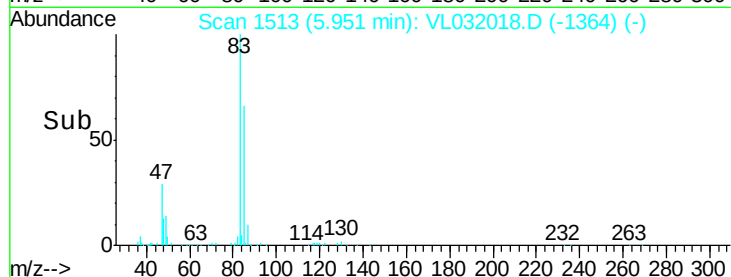
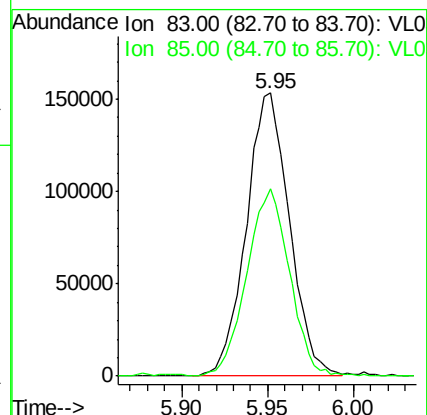
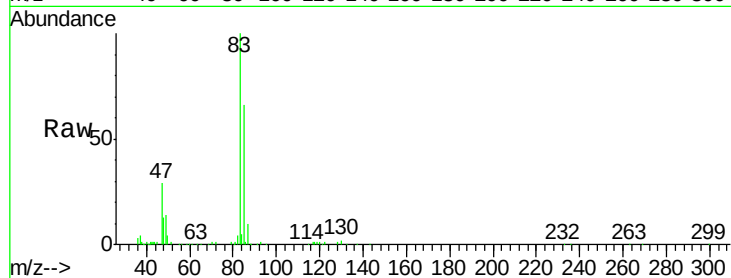
VSTDIC001

Tgt Ion: 83 Resp: 266441

Ion Ratio Lower Upper

83 100

85 66.1 52.2 78.2



#30

Cyclohexane

Concen: 0.81 ppbv

RT: 7.37 min Scan# 1953

Delta R.T. -0.02 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

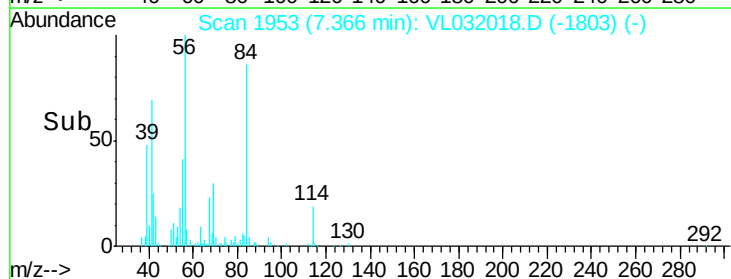
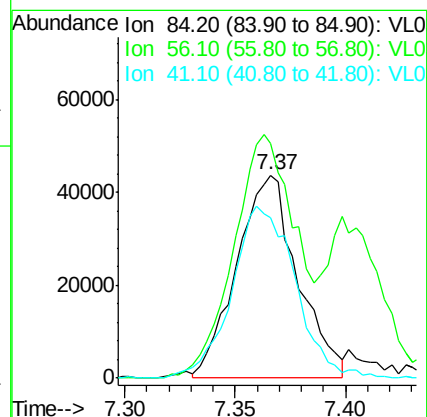
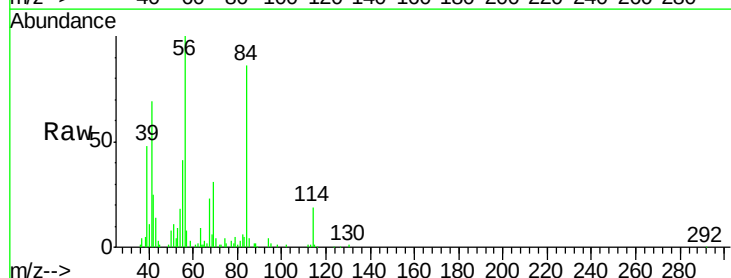
Tgt Ion: 84 Resp: 84212

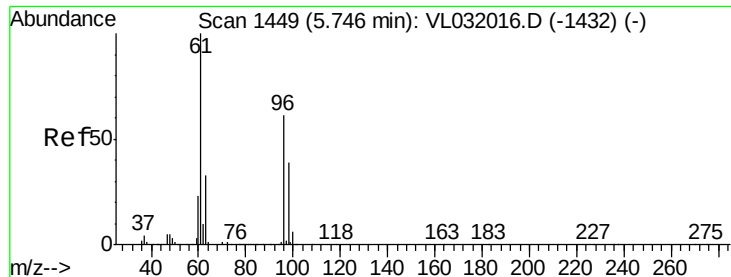
Ion Ratio Lower Upper

84 100

56 126.4 108.0 162.0

41 88.7 66.8 100.2





#31

cis-1,2-Dichloroethene

Concen: 0.98 ppbv

RT: 5.74 min Scan# 1448

Delta R.T. -0.02 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

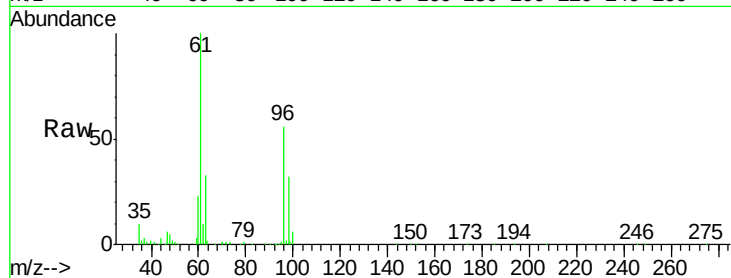
Tgt Ion: 61 Resp: 140057

Ion Ratio Lower Upper

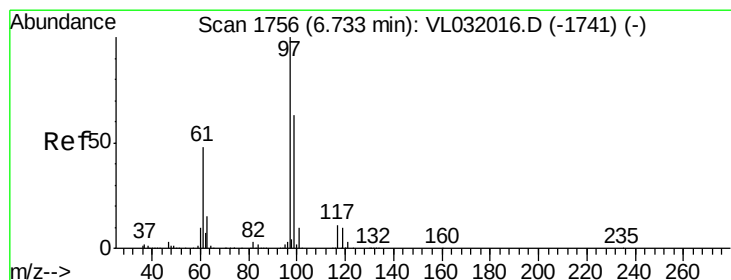
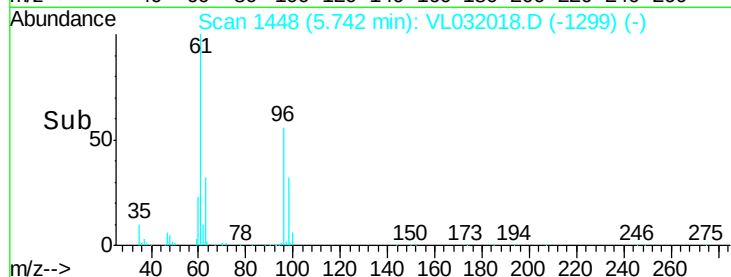
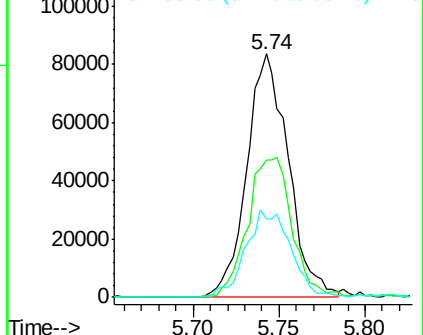
61 100

96 56.0 51.8 77.6

98 32.9 34.2 51.4#



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: 0.95 ppbv

RT: 6.73 min Scan# 1755

Delta R.T. -0.02 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

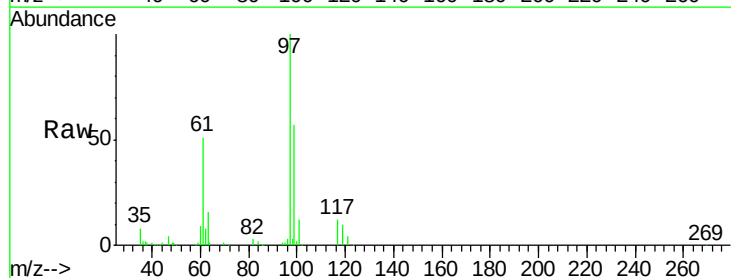
Tgt Ion: 97 Resp: 215019

Ion Ratio Lower Upper

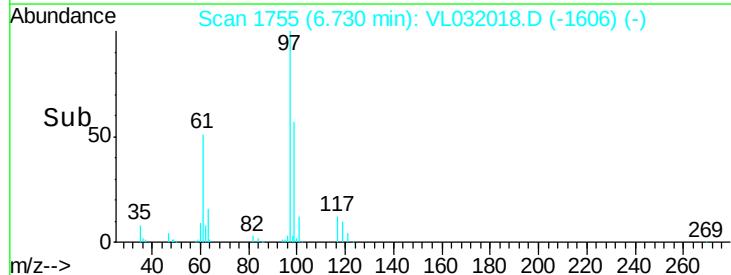
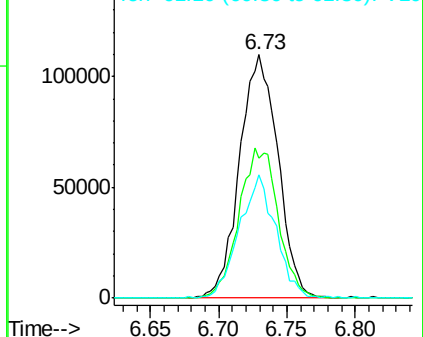
97 100

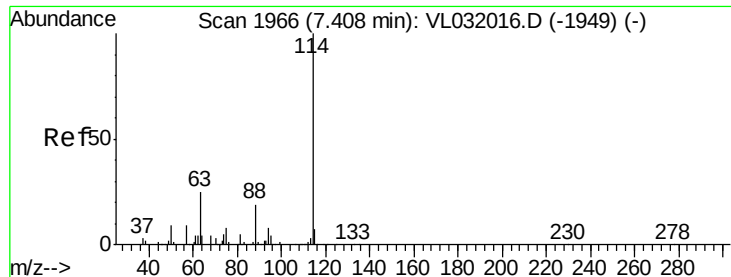
99 62.8 51.0 76.6

61 48.3 38.1 57.1



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

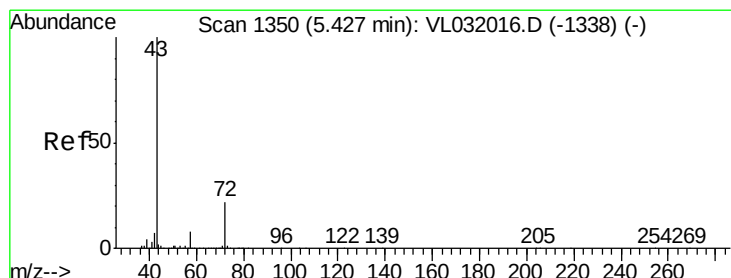
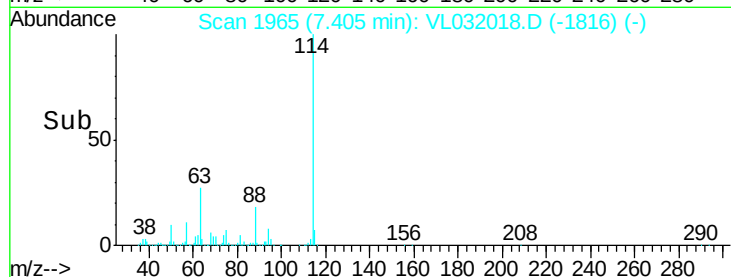
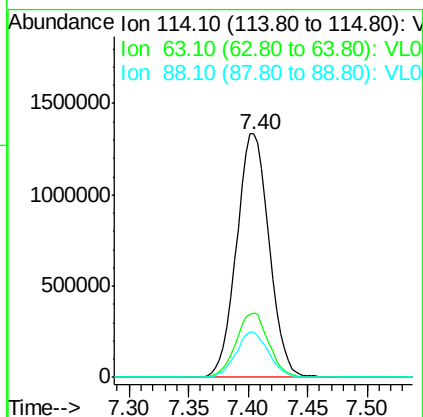
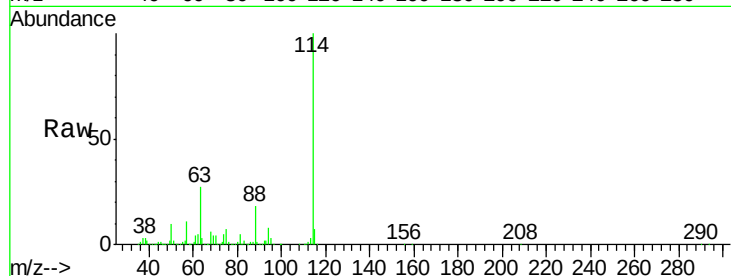




#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.40 min Scan# 1965
 Delta R.T. -0.02 min
 Lab File: VL032018.D
 Acq: 31 May 2018 17:23

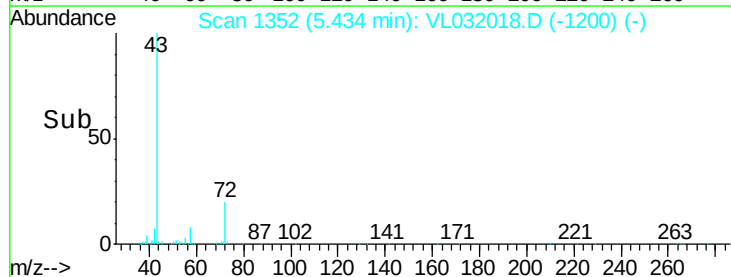
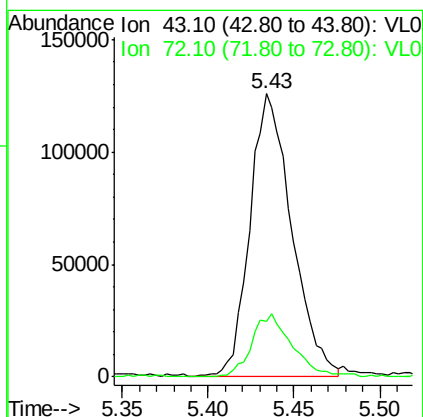
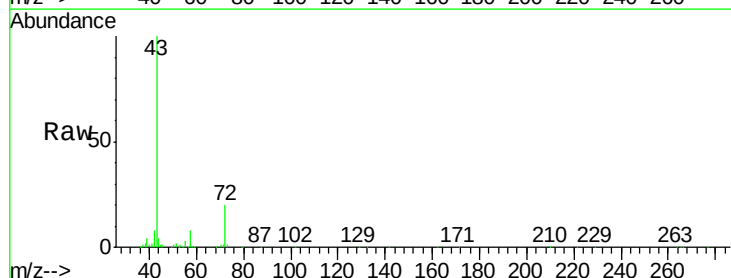
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

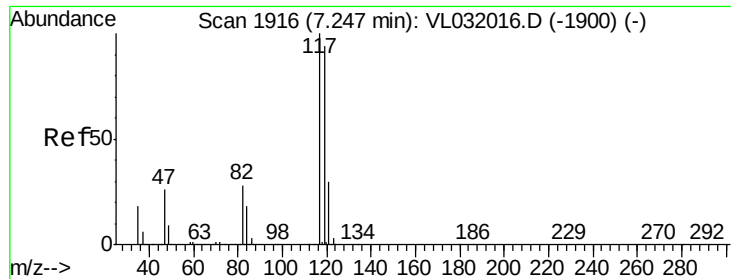
Tgt Ion:114 Resp: 2536598
 Ion Ratio Lower Upper
 114 100
 63 26.5 20.8 31.2
 88 18.5 14.6 21.8



#34
 2-Butanone
 Concen: 1.01 ppbv
 RT: 5.43 min Scan# 1352
 Delta R.T. -0.01 min
 Lab File: VL032018.D
 Acq: 31 May 2018 17:23

Tgt Ion: 43 Resp: 211942
 Ion Ratio Lower Upper
 43 100
 72 22.0 18.3 27.5

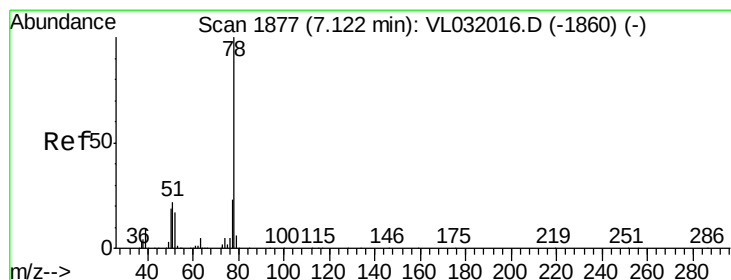
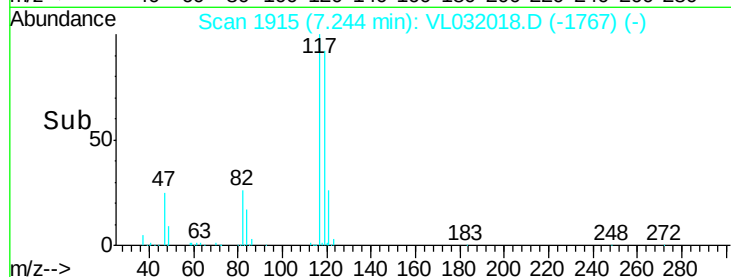
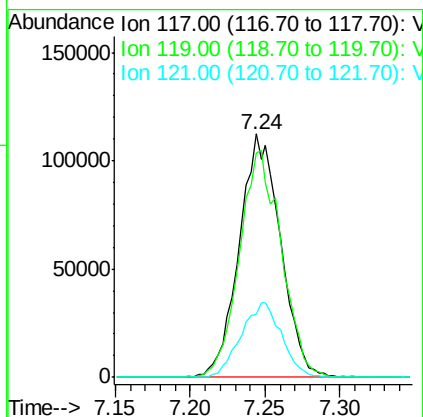
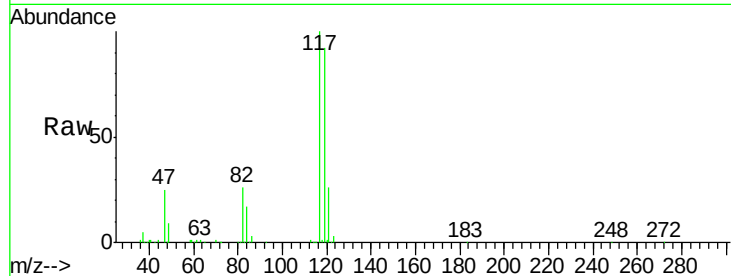




#35
Carbon Tetrachloride
Concen: 1.07 ppbv
RT: 7.24 min Scan# 1915
Delta R.T. -0.02 min
Lab File: VL032018.D
Acq: 31 May 2018 17:23

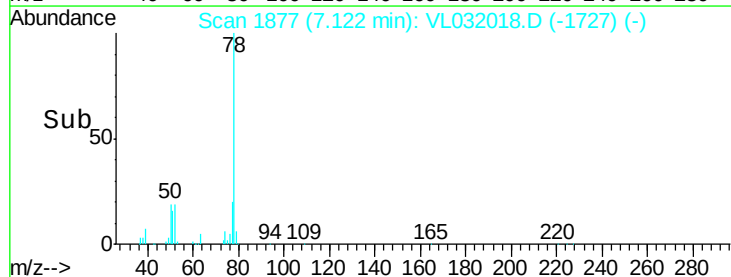
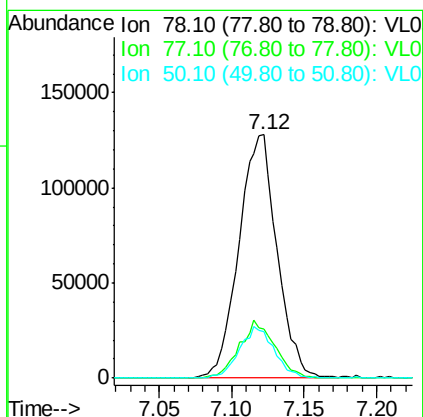
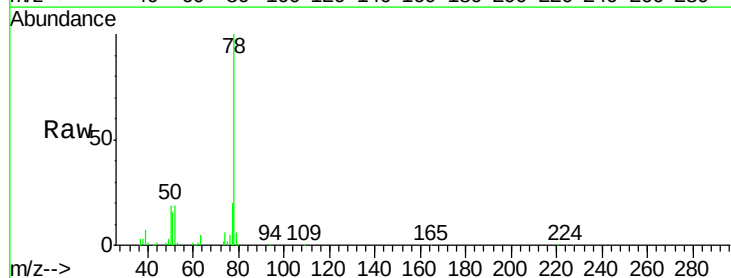
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

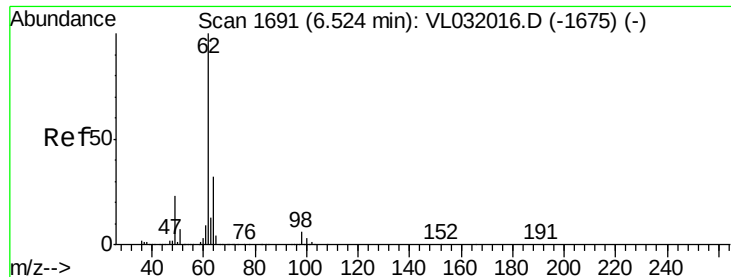
Tgt Ion	Ratio	Lower	Upper
117	100		
119	92.1	76.4	114.6
121	26.1	24.4	36.6



#36
Benzene
Concen: 0.98 ppbv
RT: 7.12 min Scan# 1877
Delta R.T. -0.02 min
Lab File: VL032018.D
Acq: 31 May 2018 17:23

Tgt Ion	Ratio	Lower	Upper
78	100		
77	20.3	19.2	28.8
50	19.2	16.2	24.4

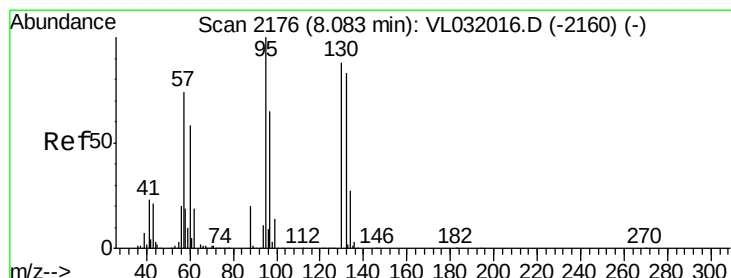
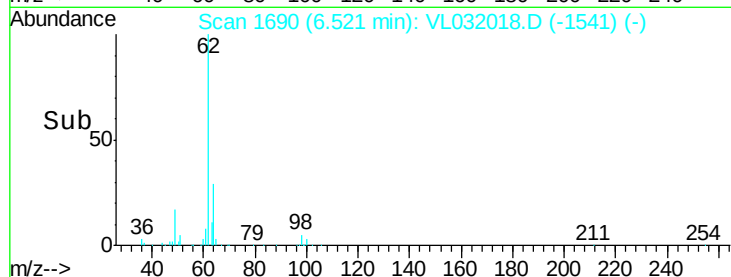
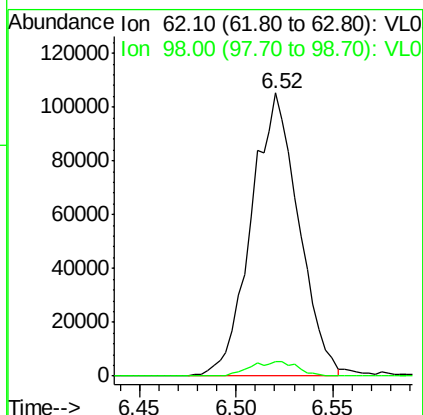
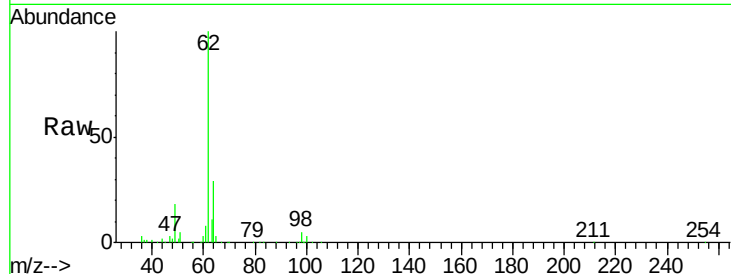




#37
 1,2-Dichloroethane
 Concen: 1.04 ppbv
 RT: 6.52 min Scan# 1690
 Delta R.T. -0.02 min
 Lab File: VL032018.D
 Acq: 31 May 2018 17:23

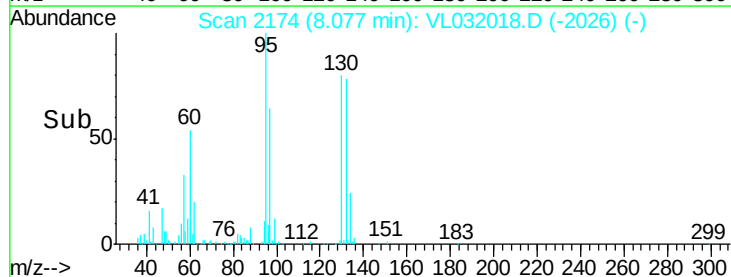
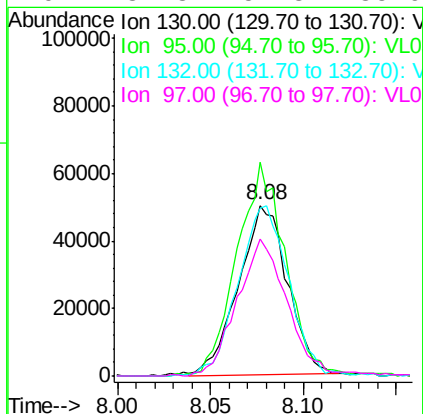
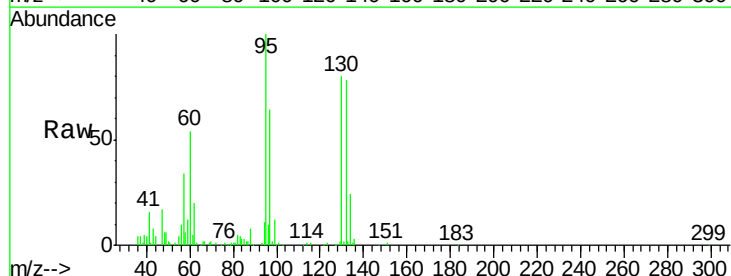
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

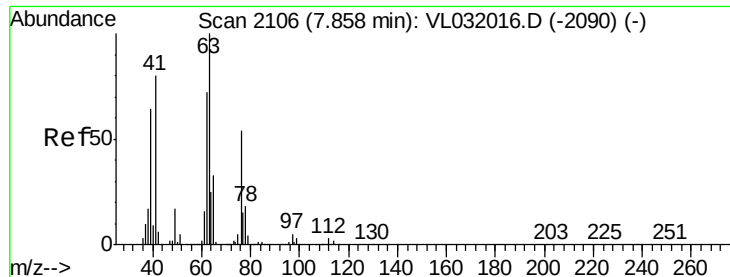
Tgt Ion: 62 Resp: 179402
 Ion Ratio Lower Upper
 62 100
 98 5.4 4.6 6.8



#38
 Trichloroethene
 Concen: 1.01 ppbv
 RT: 8.08 min Scan# 2174
 Delta R.T. -0.02 min
 Lab File: VL032018.D
 Acq: 31 May 2018 17:23

Tgt Ion: 130 Resp: 91749
 Ion Ratio Lower Upper
 130 100
 95 126.3 90.7 136.1
 132 99.2 74.3 111.5
 97 81.8 57.3 85.9





#39

1,2-Dichloropropane

Concen: 0.67 ppbv

RT: 7.85 min Scan# 2103

Delta R.T. -0.03 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

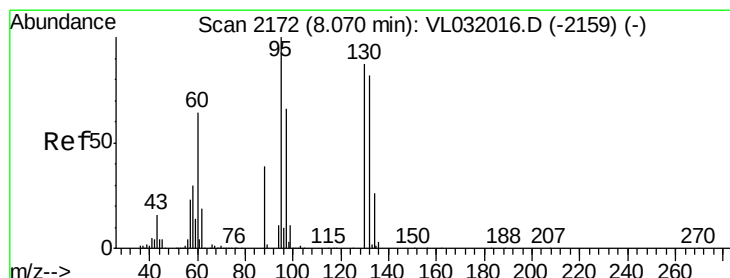
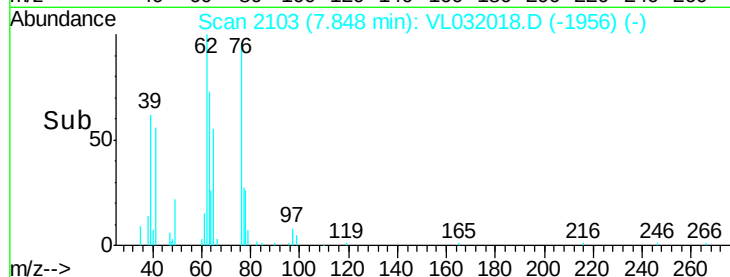
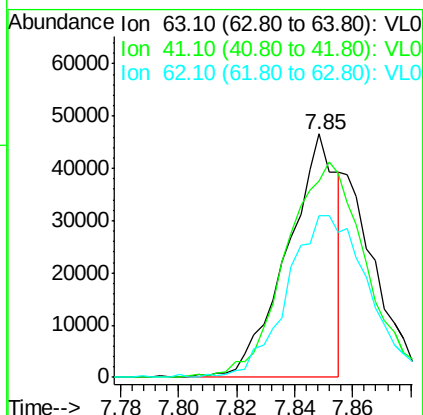
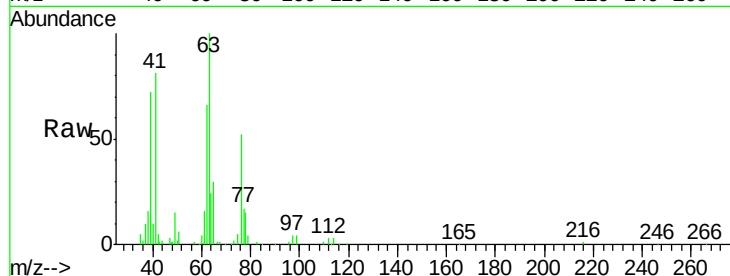
Tgt Ion: 63 Resp: 55324

Ion Ratio Lower Upper

63 100

41 80.0 60.7 91.1

62 66.2 54.7 82.1



#40

1,4-Dioxane

Concen: 0.82 ppbv

RT: 8.10 min Scan# 2180

Delta R.T. 0.01 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

Tgt Ion: 88 Resp: 30739

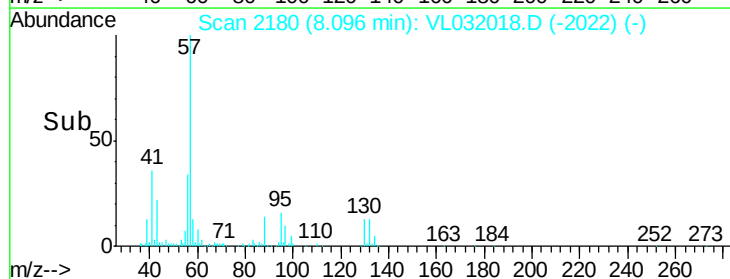
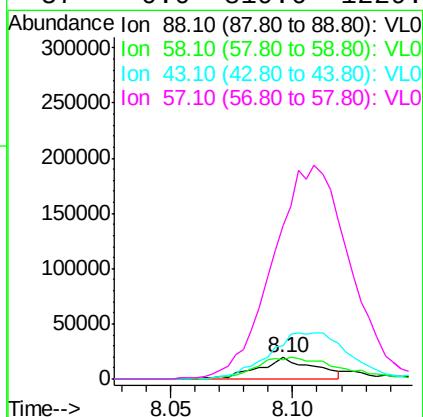
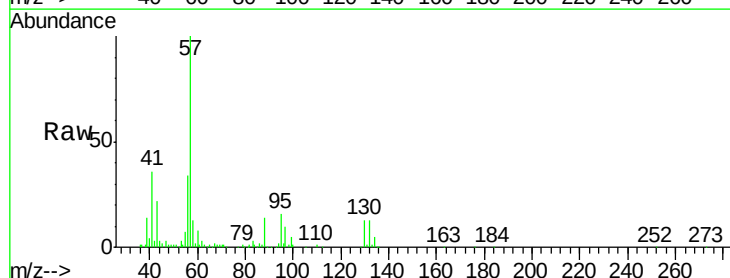
Ion Ratio Lower Upper

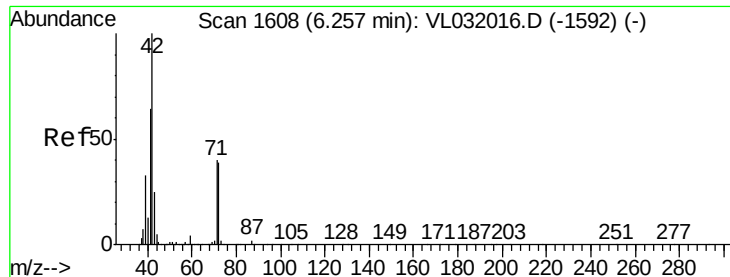
88 100

58 160.5 94.9 142.3#

43 0.0 188.2 282.2#

57 0.0 819.6 1229.4#





#41

Tetrahydrofuran

Concen: 0.82 ppbv

RT: 6.27 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

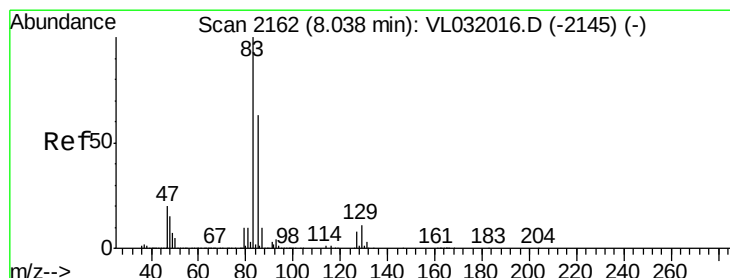
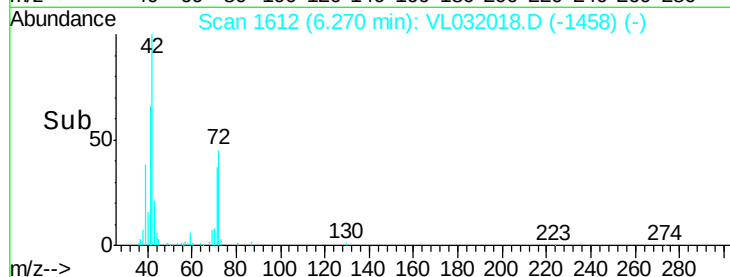
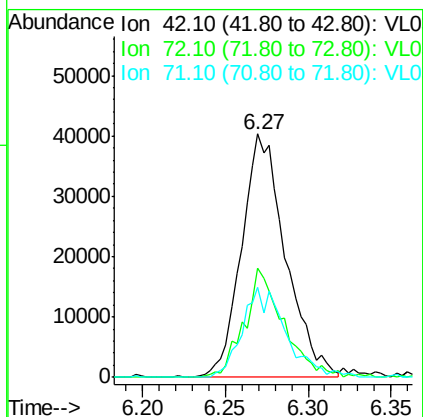
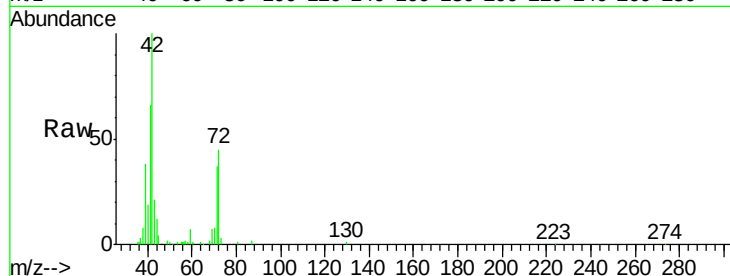
Tgt Ion: 42 Resp: 74447

Ion Ratio Lower Upper

42 100

72 40.6 32.3 48.5

71 36.7 31.4 47.2



#42

Bromodichloromethane

Concen: 1.13 ppbv

RT: 8.03 min Scan# 2160

Delta R.T. -0.02 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

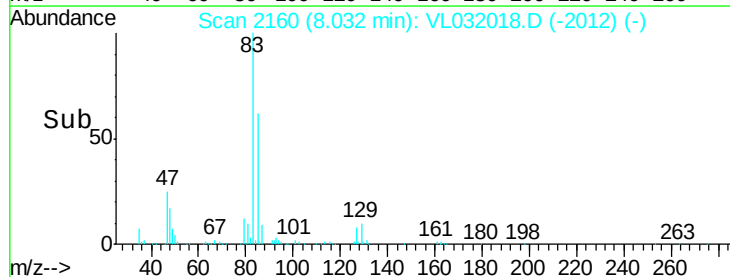
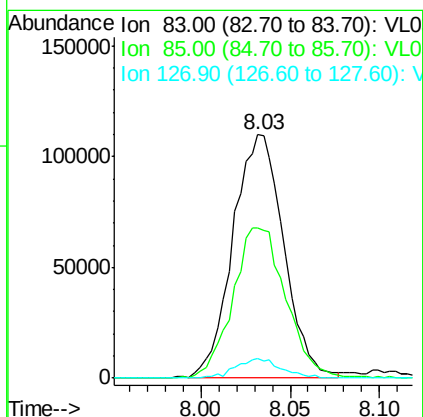
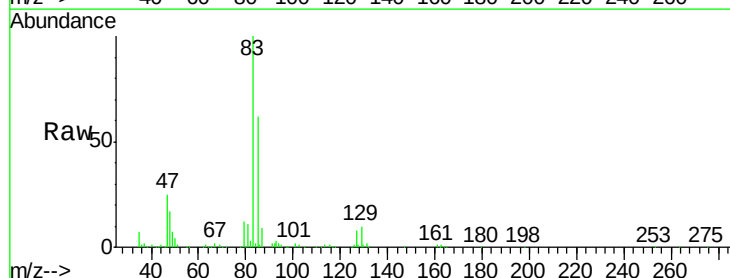
Tgt Ion: 83 Resp: 216643

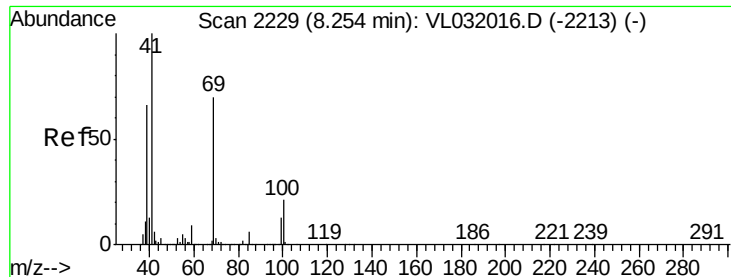
Ion Ratio Lower Upper

83 100

85 62.0 51.0 76.6

127 7.9 6.7 10.1

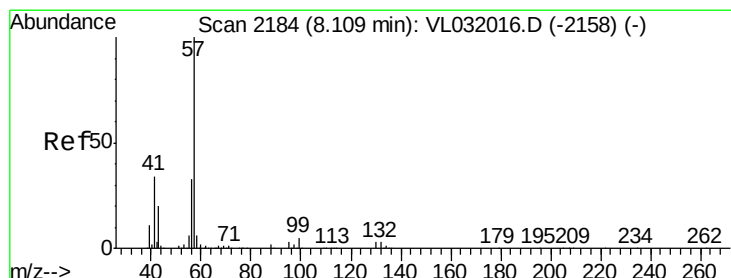
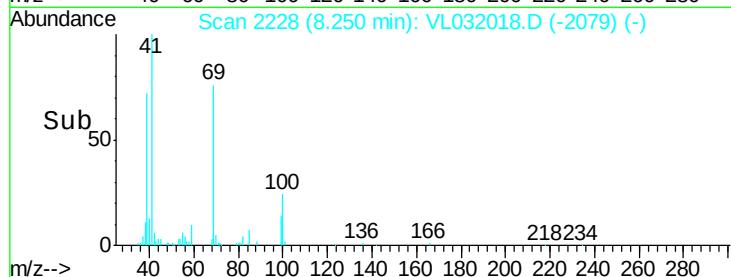
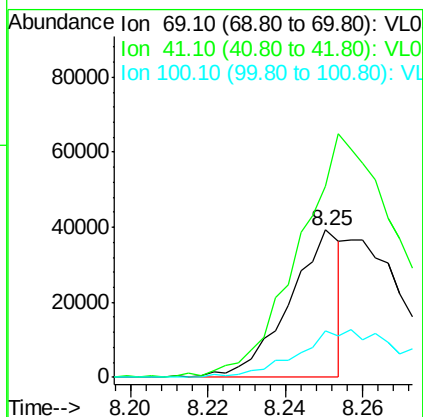
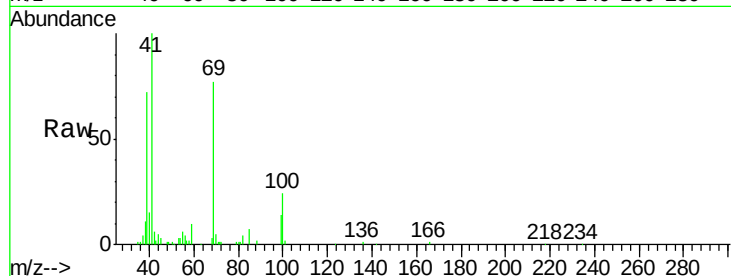




#43
Methyl Methacrylate
Concen: 0.45 ppbv
RT: 8.25 min Scan# 2228
Delta R.T. -0.02 min
Lab File: VL032018.D
Acq: 31 May 2018 17:23

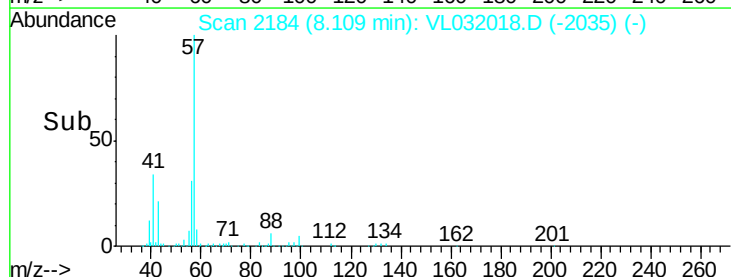
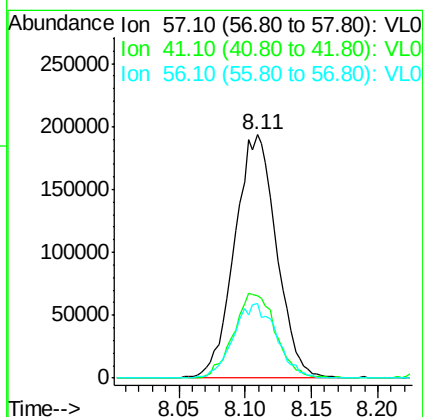
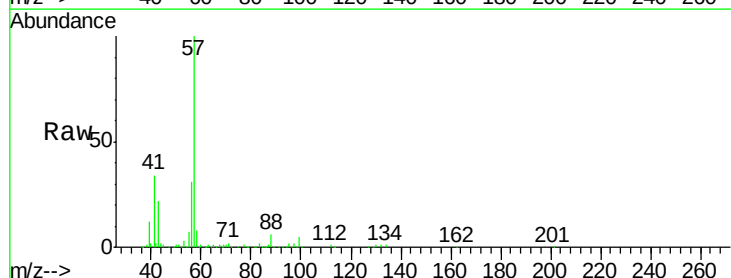
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

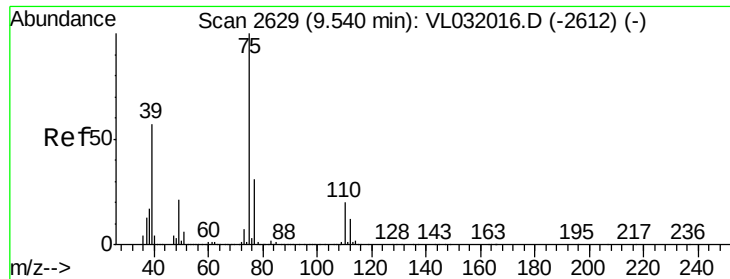
Tgt Ion: 69 Resp: 36155
Ion Ratio Lower Upper
69 100
41 0.0 119.4 179.2#
100 0.0 26.0 39.0#



#44
2,2,4-Trimethylpentane
Concen: 1.09 ppbv
RT: 8.11 min Scan# 2184
Delta R.T. -0.02 min
Lab File: VL032018.D
Acq: 31 May 2018 17:23

Tgt Ion: 57 Resp: 419695
Ion Ratio Lower Upper
57 100
41 35.6 26.6 39.8
56 31.5 24.4 36.6





#45

t-1,3-Dichloropropene

Concen: 0.92 ppbv

RT: 9.54 min Scan# 2628

Delta R.T. -0.02 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

Instrument :

MSVOA_L

ClientSampleId :

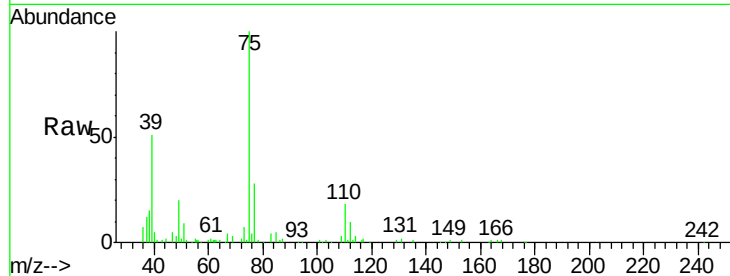
VSTDIC001

Tgt Ion: 75 Resp: 97827

Ion Ratio Lower Upper

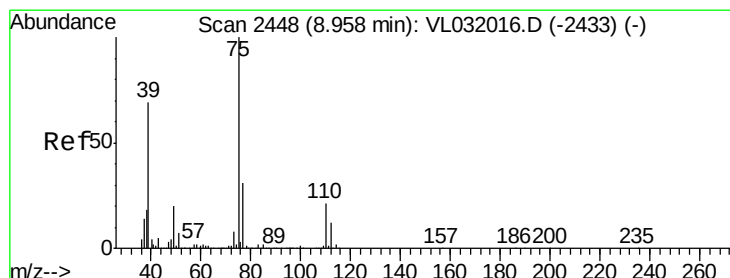
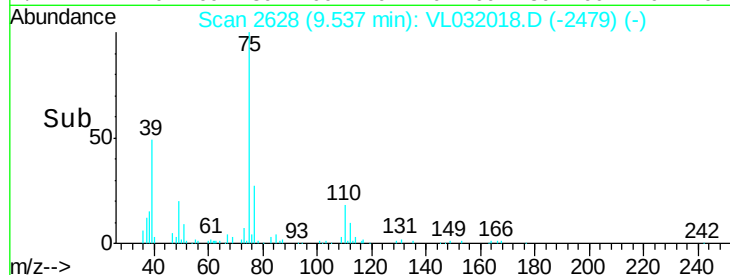
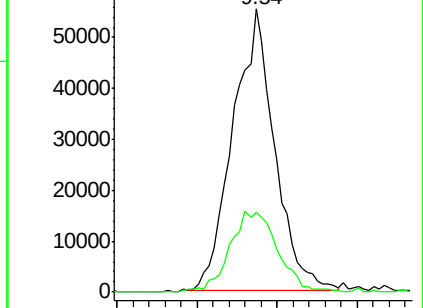
75 100

77 28.2 24.4 36.6



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 0.99 ppbv

RT: 8.96 min Scan# 2448

Delta R.T. -0.02 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

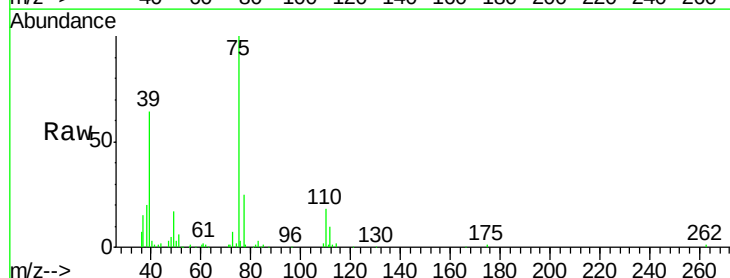
Tgt Ion: 75 Resp: 130808

Ion Ratio Lower Upper

75 100

39 63.1 55.7 83.5

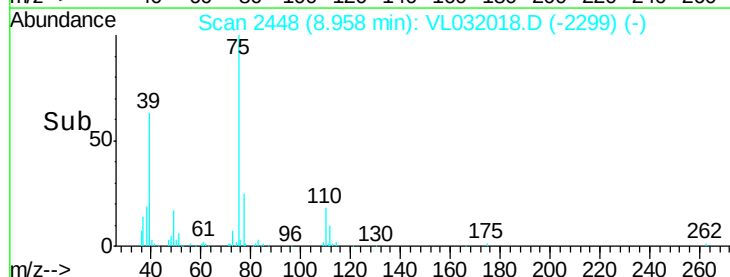
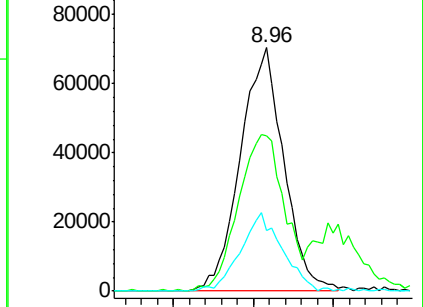
77 24.8 25.9 38.9#

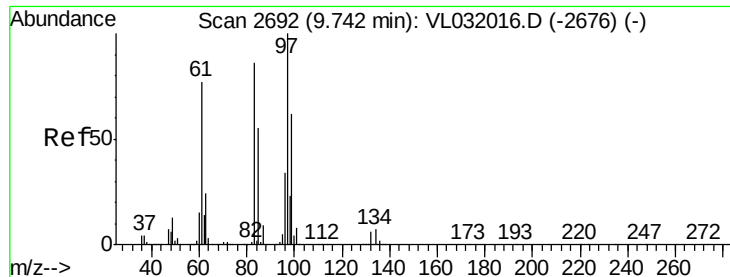


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

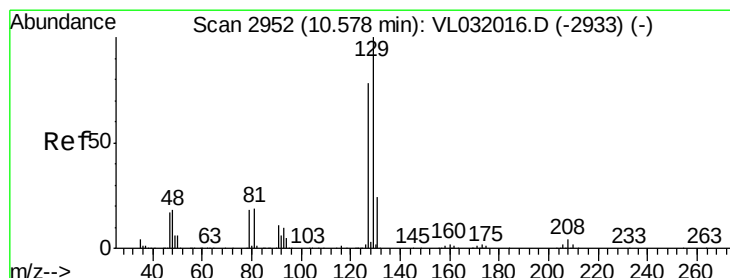
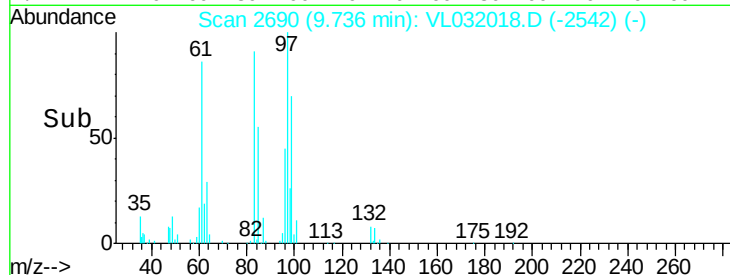
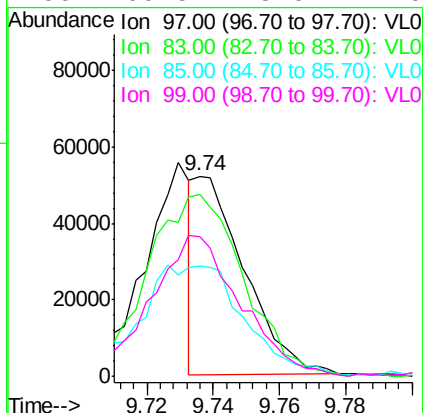
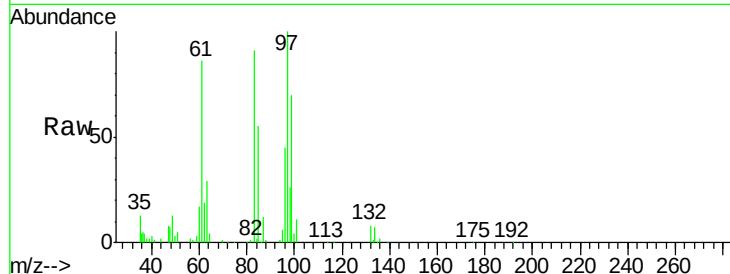




#47
 1,1,2-Trichloroethane
 Concen: 0.54 ppbv
 RT: 9.74 min Scan# 2690
 Delta R.T. -0.02 min
 Lab File: VL032018.D
 Acq: 31 May 2018 17:23

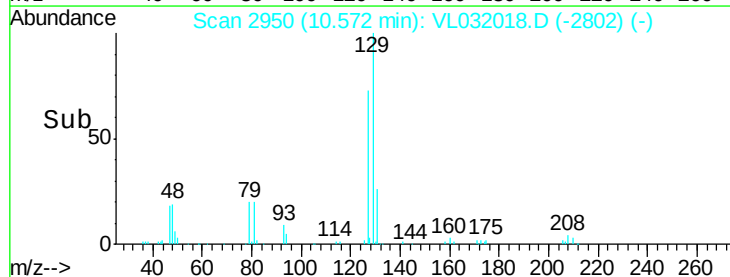
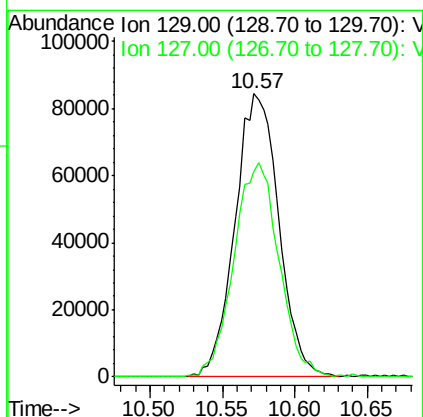
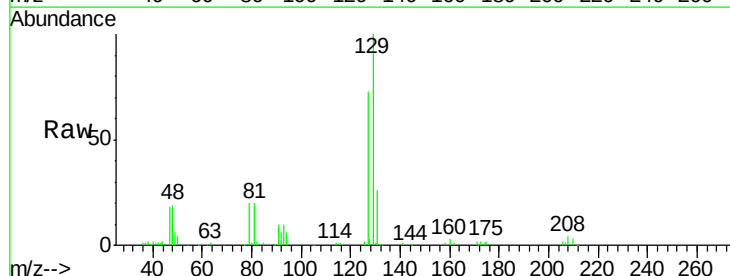
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

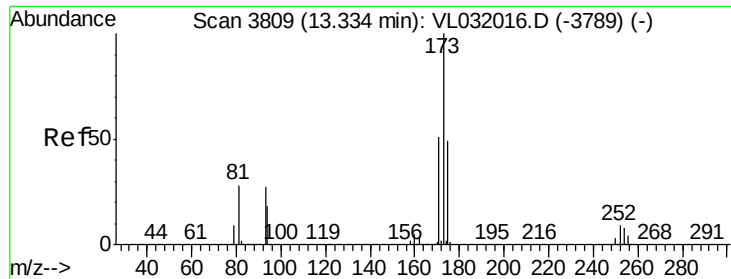
Tgt Ion:	97	Resp:	53411
Ion	Ratio	Lower	Upper
97	100		
83	90.8	69.0	103.4
85	55.1	45.0	67.6
99	69.5	48.0	72.0



#48
 Dibromochloromethane
 Concen: 1.12 ppbv
 RT: 10.57 min Scan# 2950
 Delta R.T. -0.02 min
 Lab File: VL032018.D
 Acq: 31 May 2018 17:23

Tgt Ion:	129	Resp:	177181
Ion	Ratio	Lower	Upper
129	100		
127	78.0	39.1	117.2





#49

Bromoform

Concen: 1.08 ppbv

RT: 13.32 min Scan# 3806

Delta R.T. -0.03 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

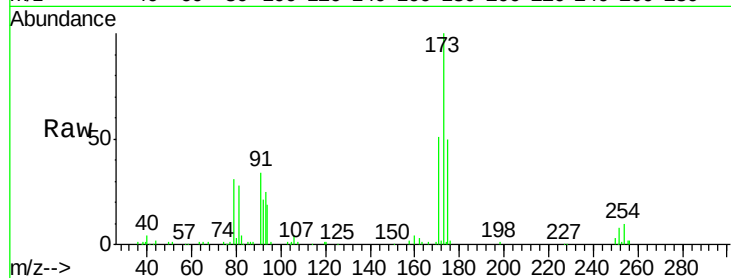
Tgt Ion: 173 Resp: 131959

Ion Ratio Lower Upper

173 100

175 51.2 39.2 58.8

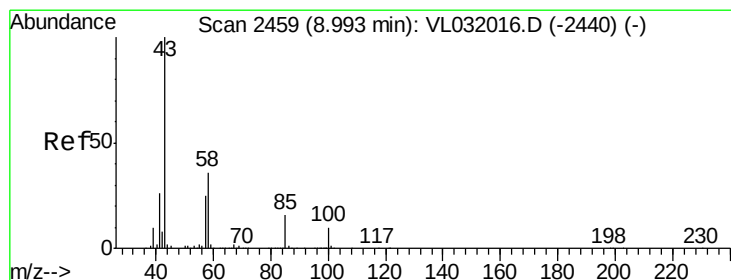
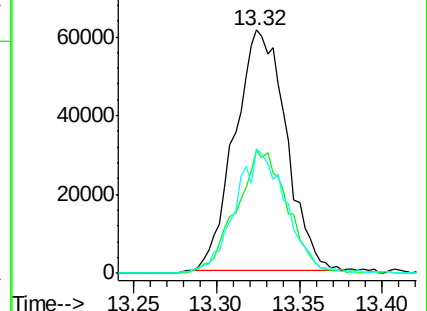
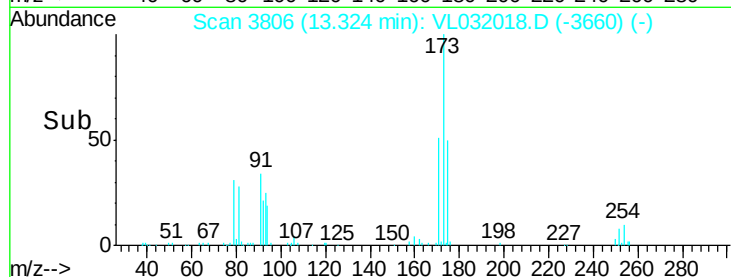
171 51.2 41.5 62.3



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 1.01 ppbv

RT: 9.00 min Scan# 2461

Delta R.T. -0.01 min

Lab File: VL032018.D

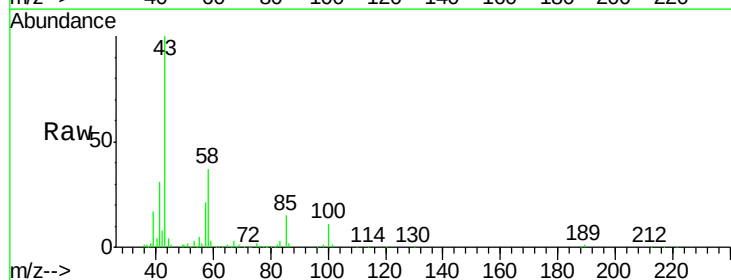
Acq: 31 May 2018 17:23

Tgt Ion: 43 Resp: 200100

Ion Ratio Lower Upper

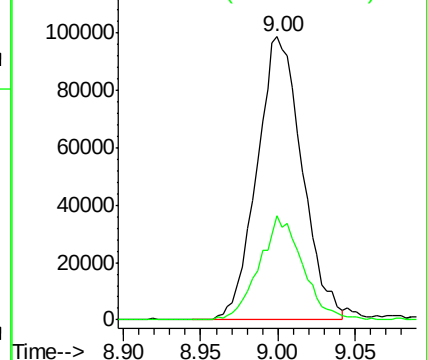
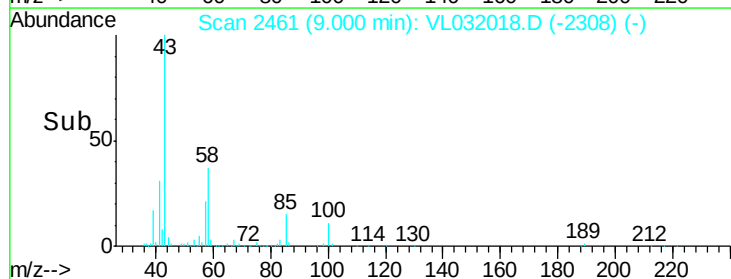
43 100

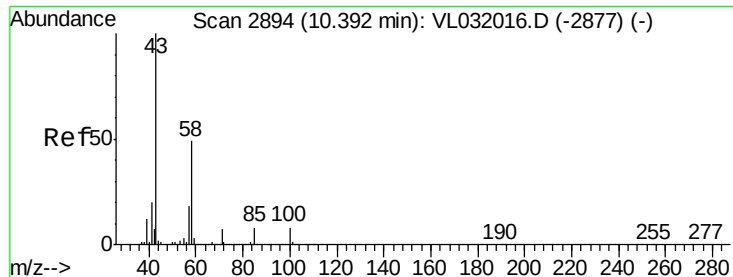
58 35.5 28.6 42.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 0.97 ppbv

RT: 10.40 min Scan# 2898

Delta R.T. -0.01 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

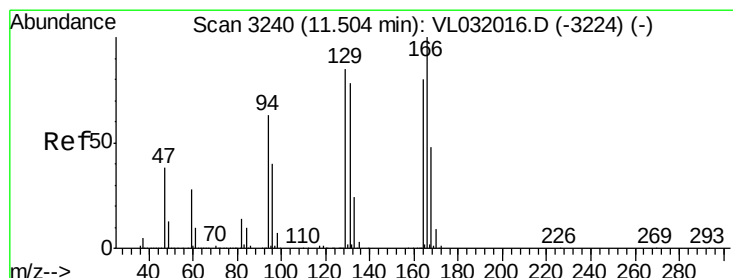
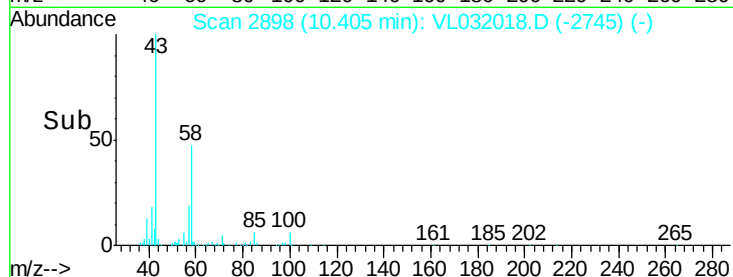
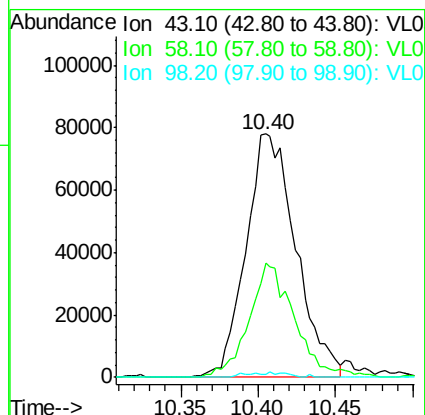
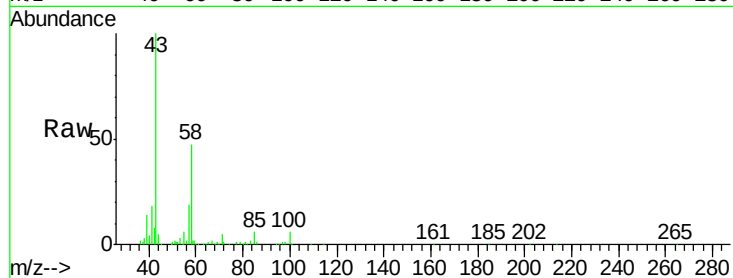
Tgt Ion: 43 Resp: 175050

Ion Ratio Lower Upper

43 100

58 43.5 38.6 58.0

98 1.7 0.2 0.2#



#52

Tetrachloroethene

Concen: 0.67 ppbv

RT: 11.50 min Scan# 3238

Delta R.T. -0.02 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

Tgt Ion: 164 Resp: 59632

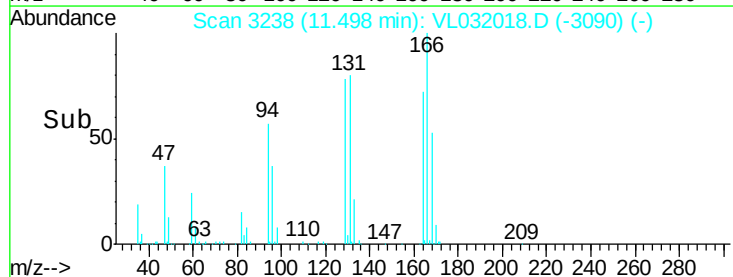
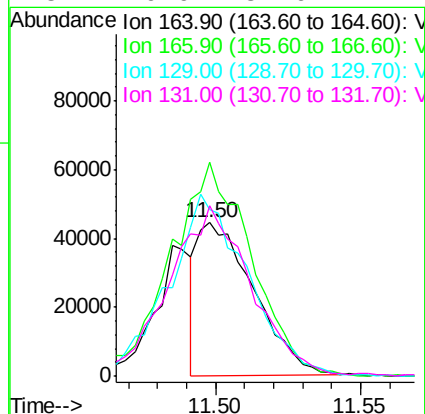
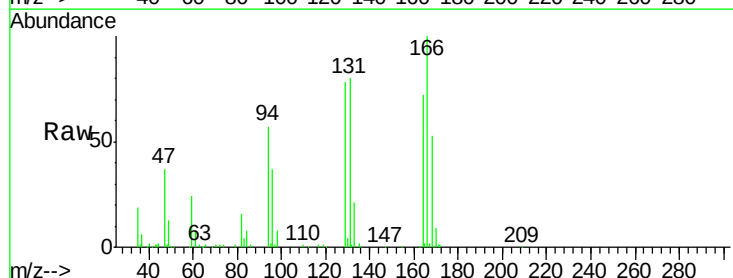
Ion Ratio Lower Upper

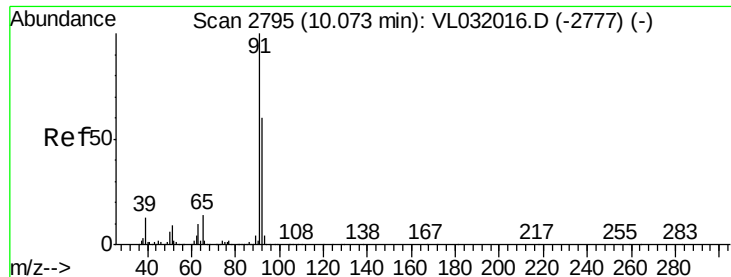
164 100

166 138.8 101.9 152.9

129 108.5 85.8 128.6

131 110.9 81.6 122.4





#53

Toluene

Concen: 0.98 ppbv

RT: 10.07 min Scan# 2794

Delta R.T. -0.02 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

Instrument :

MSVOA_L

ClientSampleId :

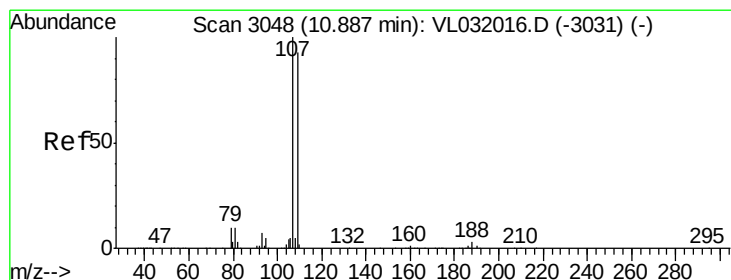
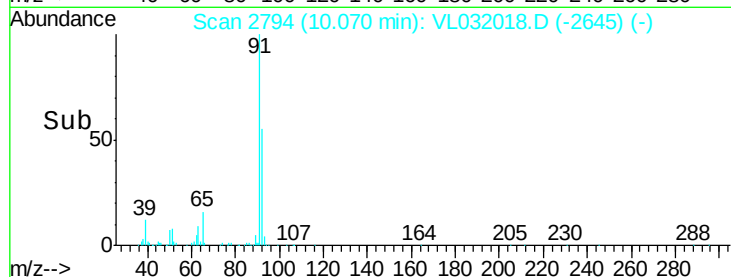
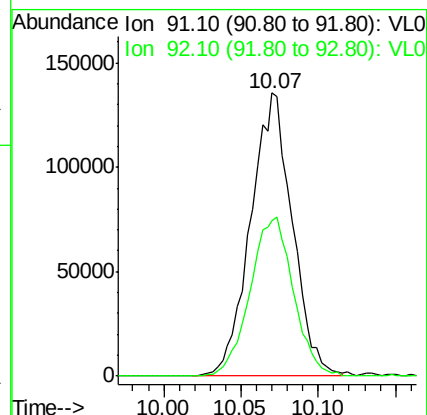
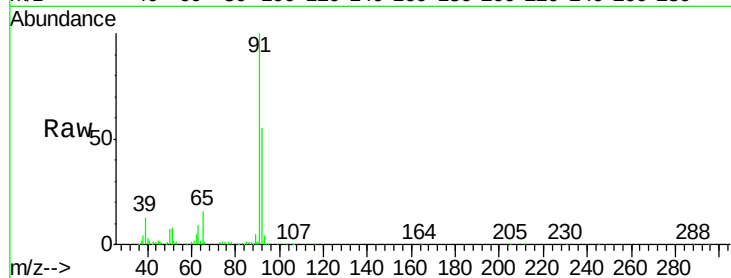
VSTDIC001

Tgt Ion: 91 Resp: 251863

Ion Ratio Lower Upper

91 100

92 58.8 47.4 71.2



#54

1,2-Dibromoethane

Concen: 1.08 ppbv

RT: 10.88 min Scan# 3047

Delta R.T. -0.02 min

Lab File: VL032018.D

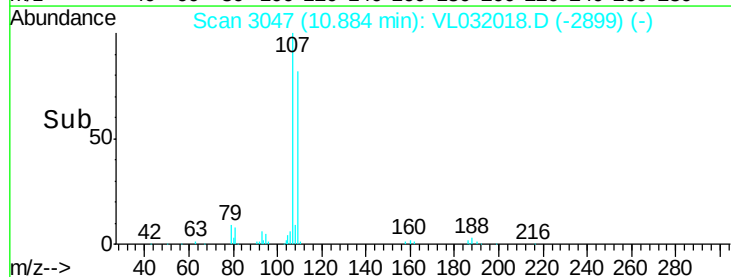
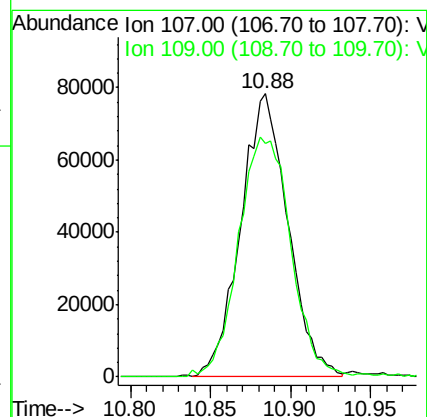
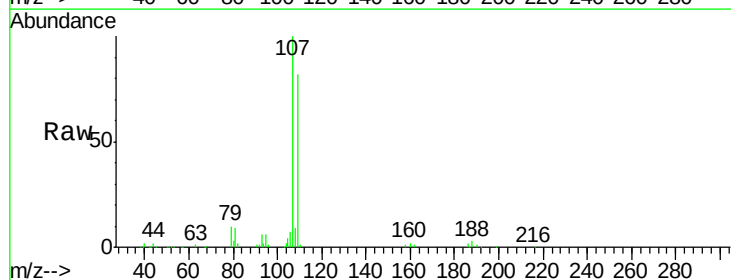
Acq: 31 May 2018 17:23

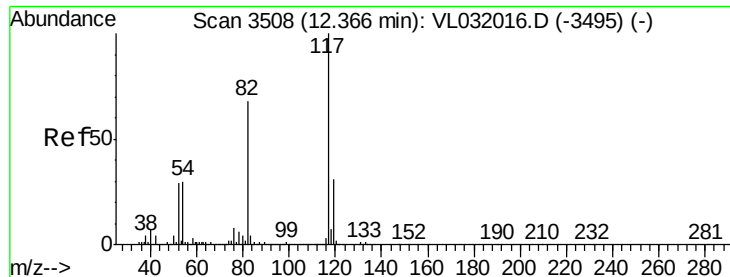
Tgt Ion: 107 Resp: 158260

Ion Ratio Lower Upper

107 100

109 80.8 72.1 108.1





#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.37 min Scan# 3508

Delta R.T. -0.02 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

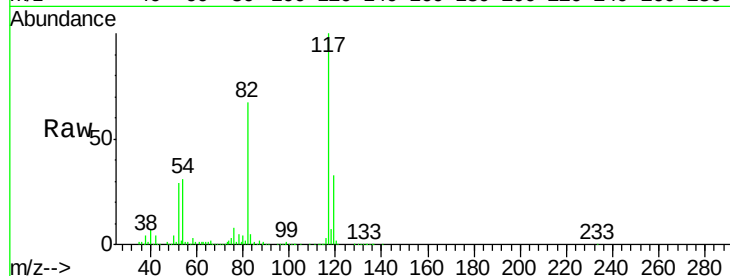
Tgt Ion:117 Resp: 2603517

Ion Ratio Lower Upper

117 100

82 65.9 51.6 77.4

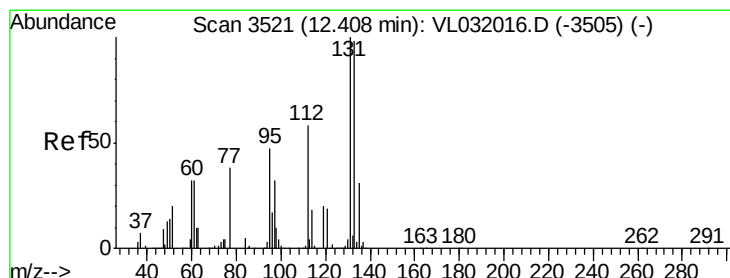
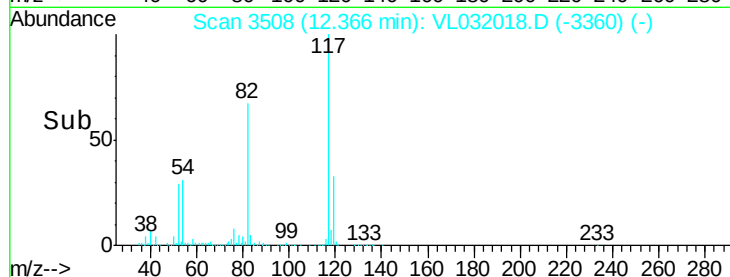
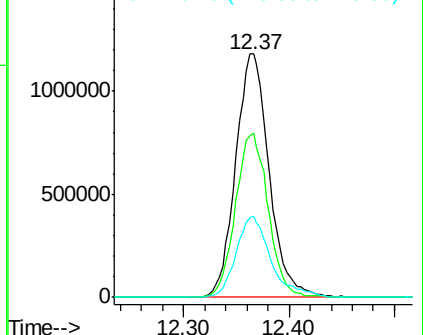
119 34.7 44.2 66.4#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 1.13 ppbv

RT: 12.40 min Scan# 3520

Delta R.T. -0.02 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

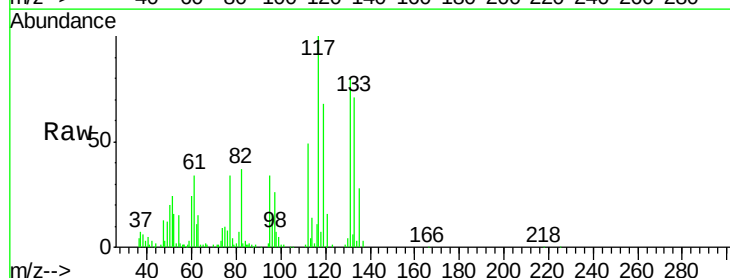
Tgt Ion:131 Resp: 133770

Ion Ratio Lower Upper

131 100

133 95.9 76.2 114.4

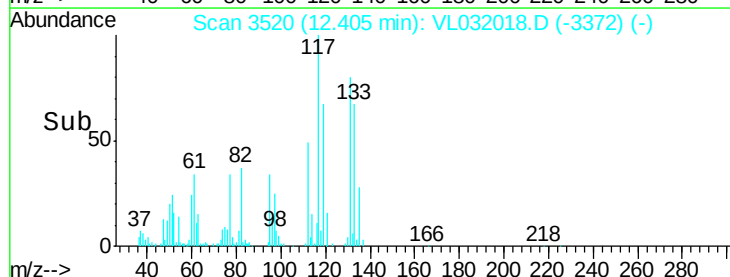
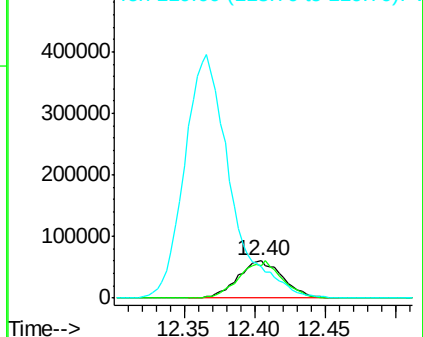
119 675.3 44.7 67.1#

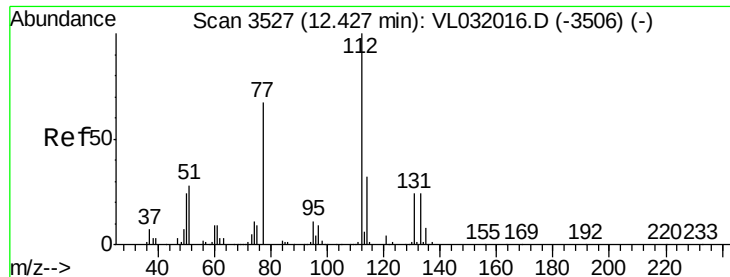


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

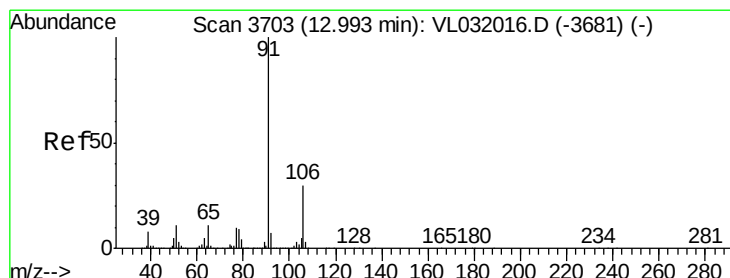
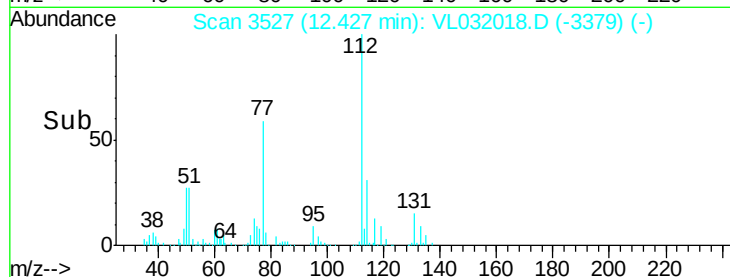
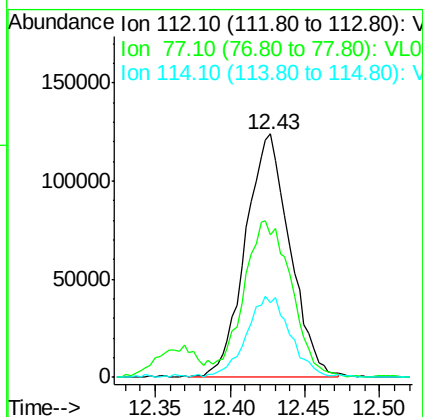
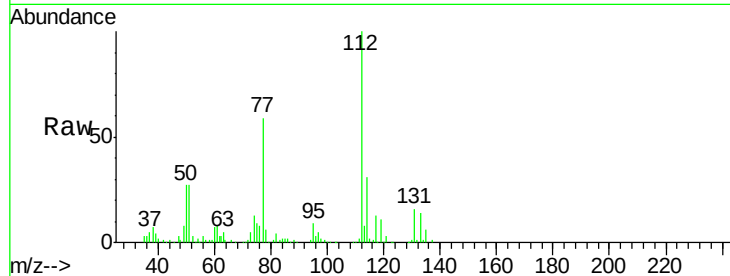




#57
Chlorobenzene
Concen: 1.14 ppbv
RT: 12.43 min Scan# 3527
Delta R.T. -0.02 min
Lab File: VL032018.D
Acq: 31 May 2018 17:23

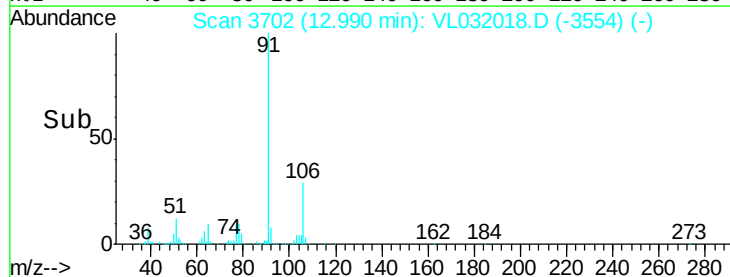
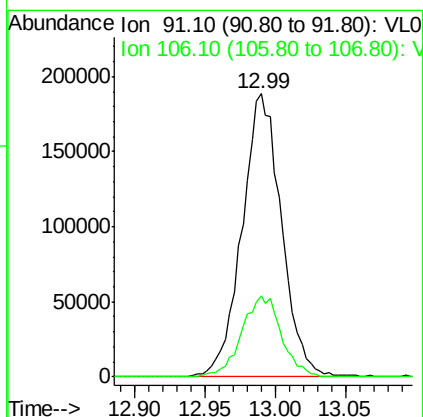
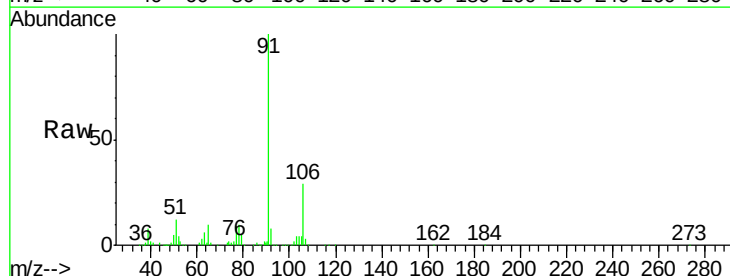
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

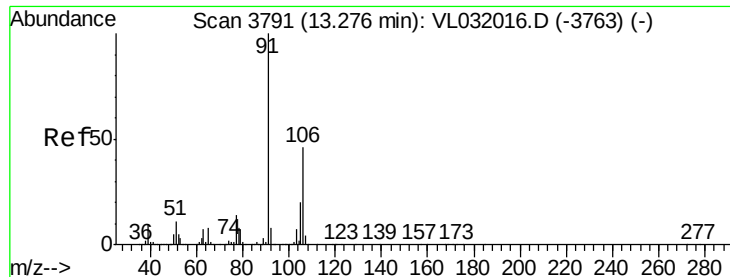
Tgt Ion	Ratio	Lower	Upper
112	100		
77	57.6	54.6	82.0
114	30.8	29.2	35.6



#58
Ethyl Benzene
Concen: 0.99 ppbv
RT: 12.99 min Scan# 3702
Delta R.T. -0.02 min
Lab File: VL032018.D
Acq: 31 May 2018 17:23

Tgt Ion	Ratio	Lower	Upper
91	100		
106	28.5	23.4	35.2





#59

m/p-Xylene

Concen: 2.20 ppbv m

RT: 13.27 min Scan# 3790

Delta R.T. -0.03 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

Instrument :

MSVOA_L

ClientSampleId :

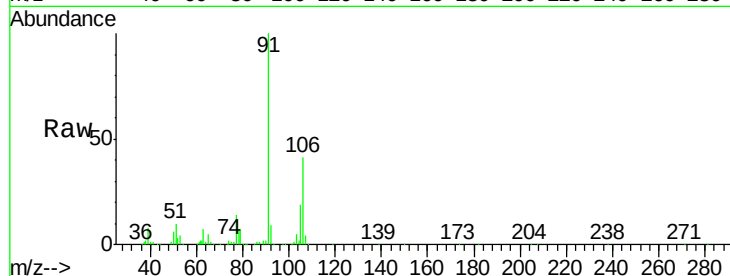
VSTDIC001

Tgt Ion: 91 Resp: 694527

Ion Ratio Lower Upper

91 100

106 43.2 35.9 53.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

13.27

200000

150000

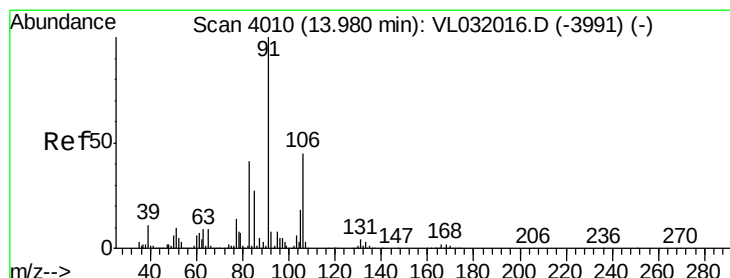
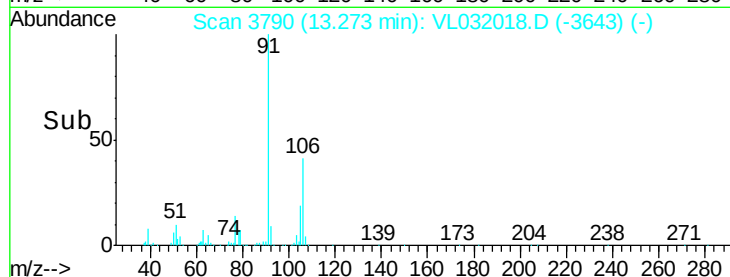
100000

50000

0

Time-->

13.10 13.20 13.30 13.40



#60

o-Xylene

Concen: 1.03 ppbv

RT: 13.97 min Scan# 4007

Delta R.T. -0.03 min

Lab File: VL032018.D

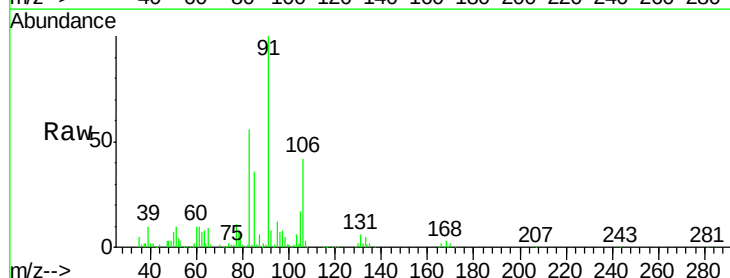
Acq: 31 May 2018 17:23

Tgt Ion: 91 Resp: 326884

Ion Ratio Lower Upper

91 100

106 44.0 21.5 64.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

13.97

150000

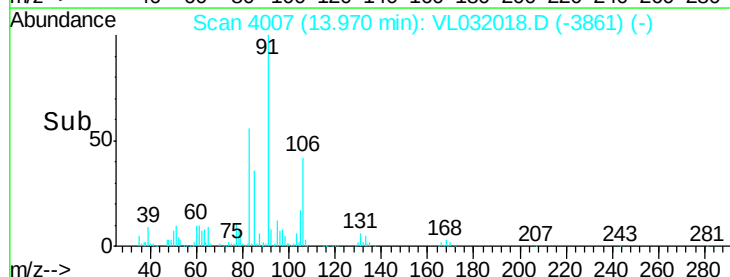
100000

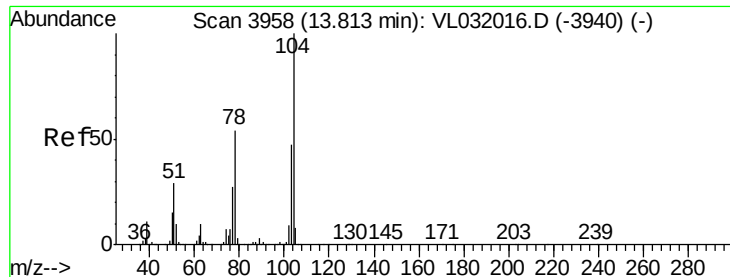
50000

0

Time-->

13.90 13.95 14.00





#61

Styrene

Concen: 0.46 ppbv

RT: 13.81 min Scan# 3958

Delta R.T. -0.02 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

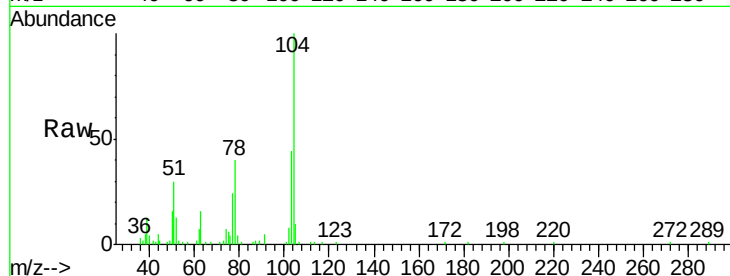
Tgt Ion:104 Resp: 29320

Ion Ratio Lower Upper

104 100

78 99.5 43.8 65.8#

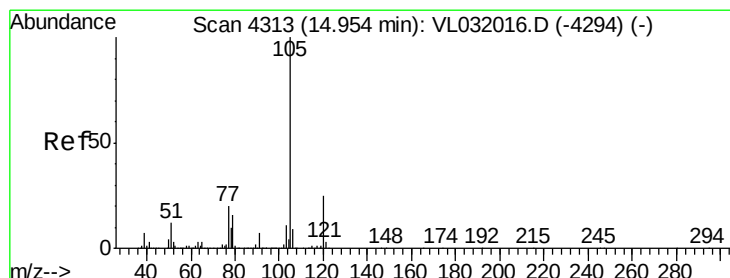
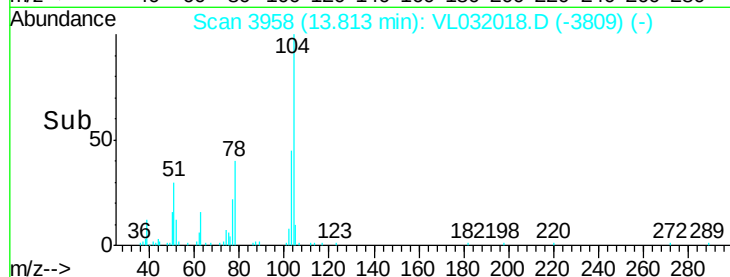
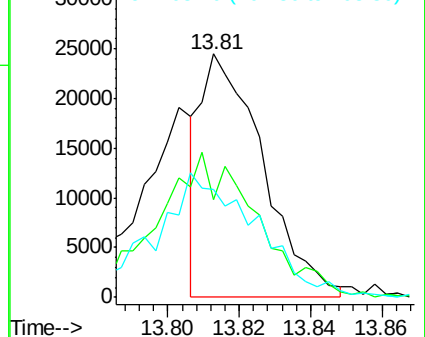
103 85.8 38.4 57.6#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 1.03 ppbv

RT: 14.95 min Scan# 4313

Delta R.T. -0.02 min

Lab File: VL032018.D

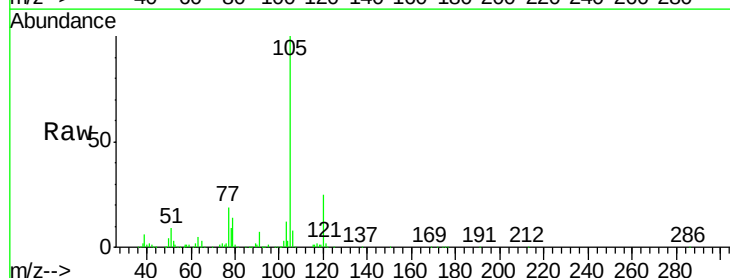
Acq: 31 May 2018 17:23

Tgt Ion:105 Resp: 415829

Ion Ratio Lower Upper

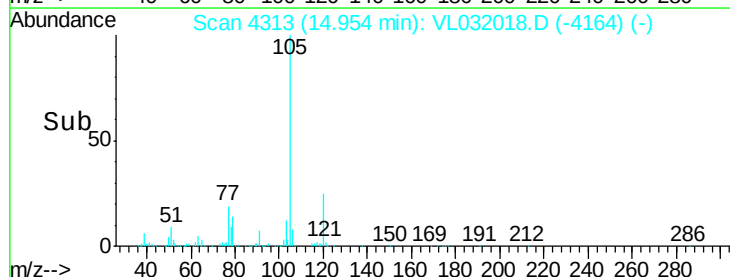
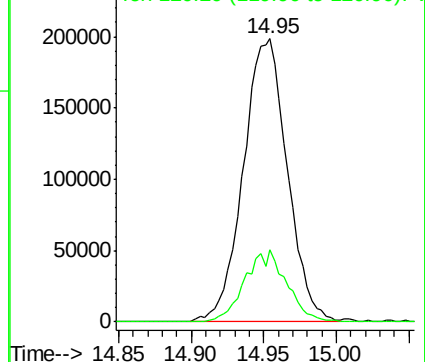
105 100

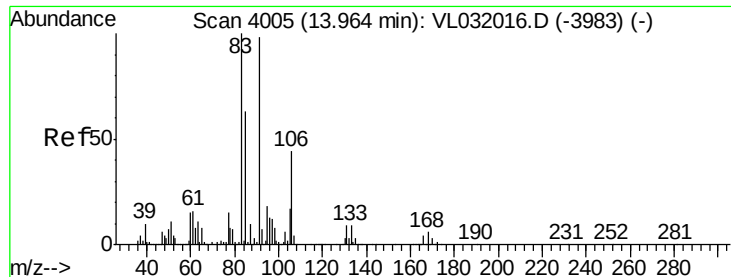
120 24.2 19.9 29.9



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 1.14 ppbv

RT: 13.96 min Scan# 4003

Delta R.T. -0.03 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

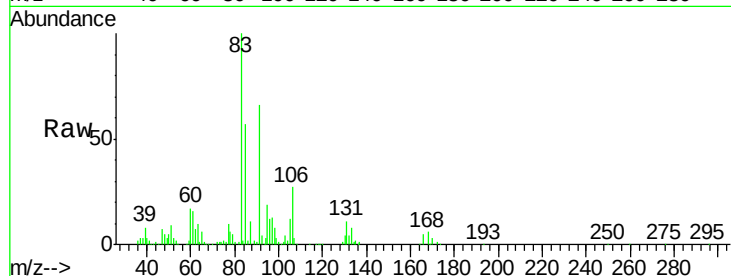
Tgt Ion: 83 Resp: 256968

Ion Ratio Lower Upper

83 100

131 10.1 4.9 14.7

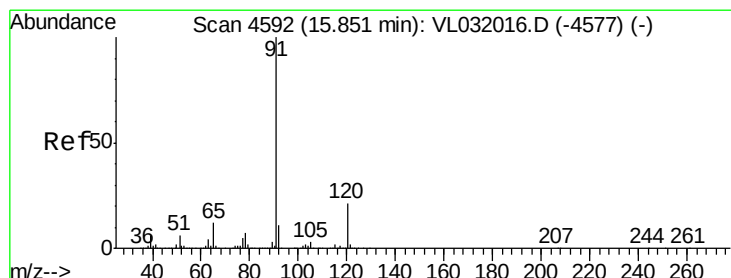
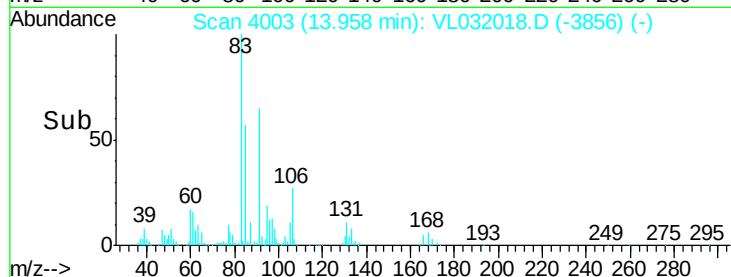
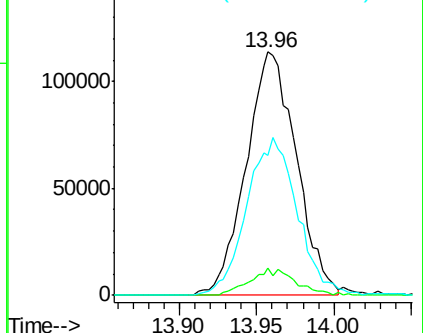
85 65.6 32.7 98.1



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: 0.72 ppbv

RT: 15.85 min Scan# 4591

Delta R.T. -0.02 min

Lab File: VL032018.D

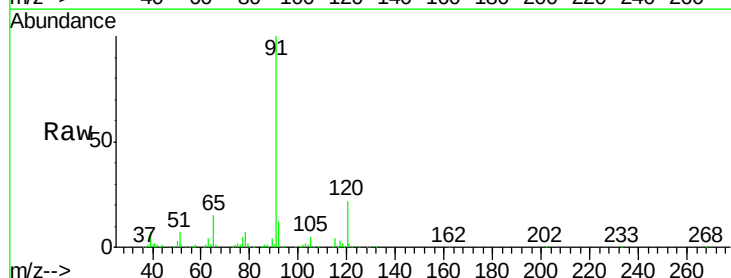
Acq: 31 May 2018 17:23

Tgt Ion: 120 Resp: 72872

Ion Ratio Lower Upper

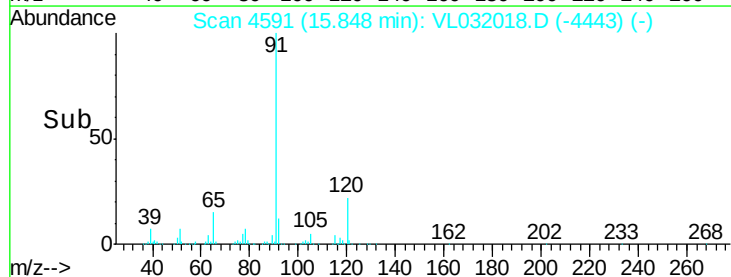
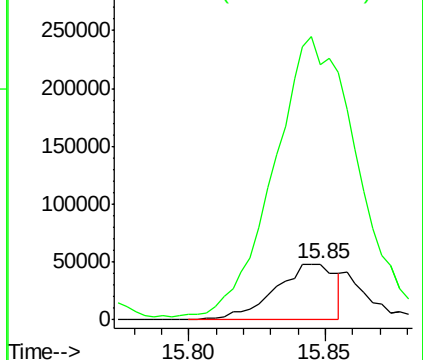
120 100

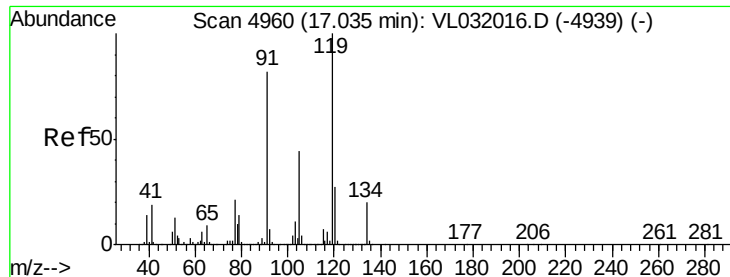
91 729.6 388.6 583.0#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 1.05 ppbv

RT: 17.03 min Scan# 4959

Delta R.T. -0.03 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

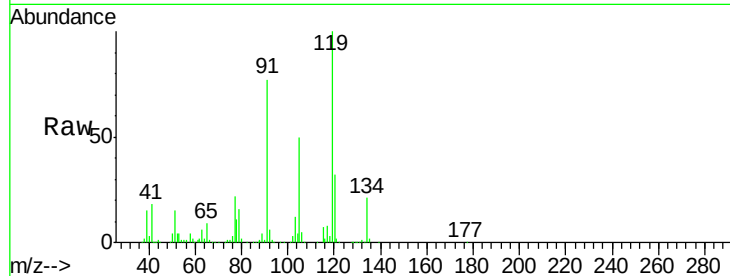
Tgt Ion: 119 Resp: 379416

Ion Ratio Lower Upper

119 100

91 85.2 68.1 102.1

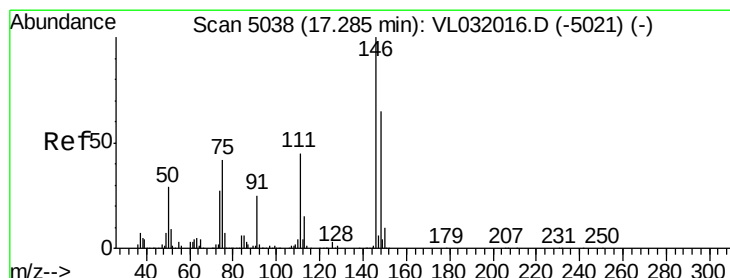
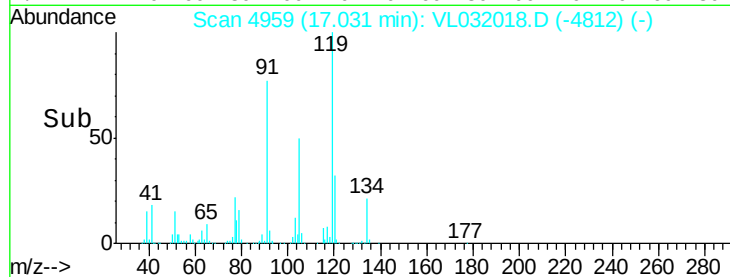
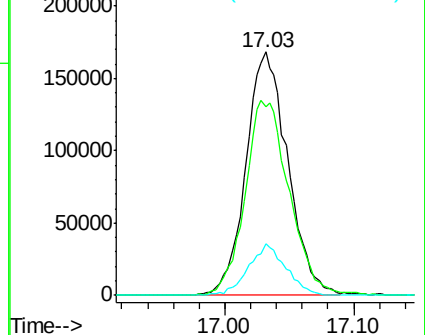
134 19.1 15.4 23.0



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 1.12 ppbv

RT: 17.28 min Scan# 5037

Delta R.T. -0.02 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

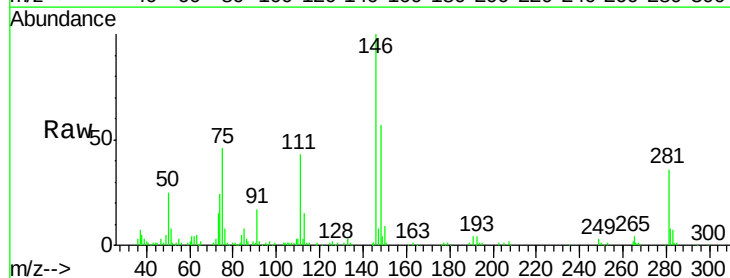
Tgt Ion: 91 Resp: 36950

Ion Ratio Lower Upper

91 100

126 14.7 13.4 20.0

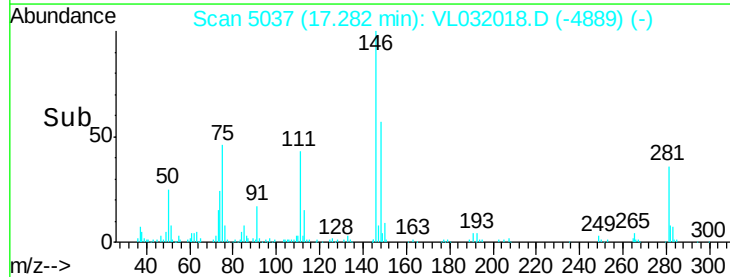
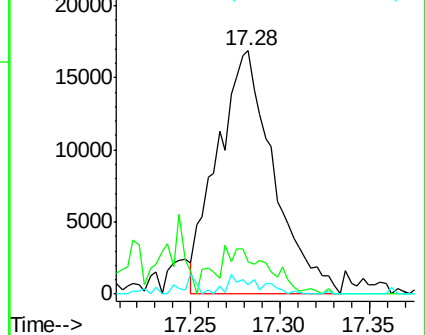
128 0.2 4.6 6.8#

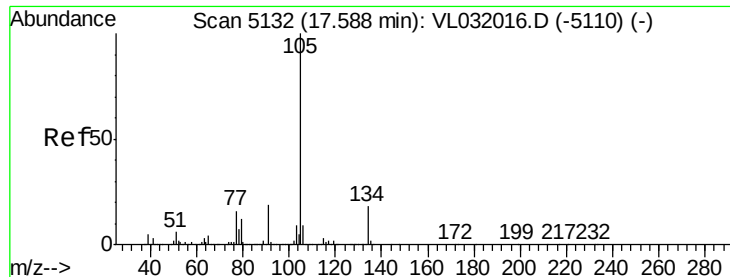


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 1.07 ppbv

RT: 17.58 min Scan# 5130

Delta R.T. -0.03 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

Instrument :

MSVOA_L

ClientSampleId :

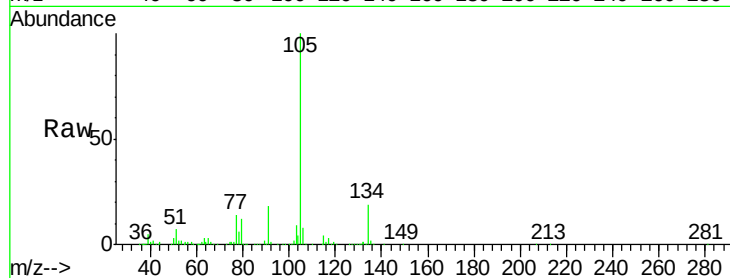
VSTDIC001

Tgt Ion: 105 Resp: 538872

Ion Ratio Lower Upper

105 100

134 17.9 14.2 21.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.58

250000

200000

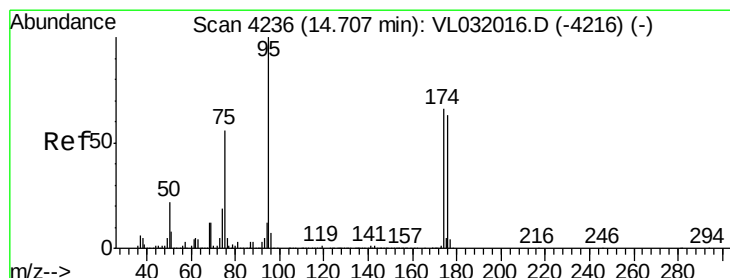
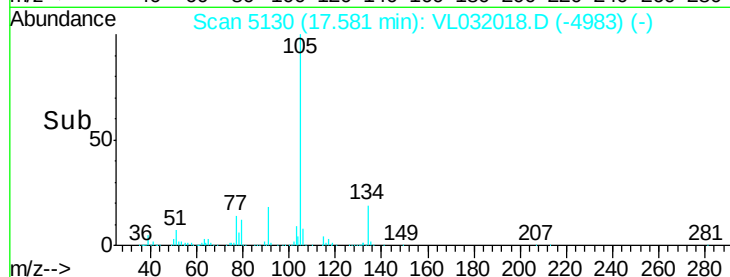
150000

100000

50000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.94 ppbv

RT: 14.70 min Scan# 4234

Delta R.T. -0.02 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

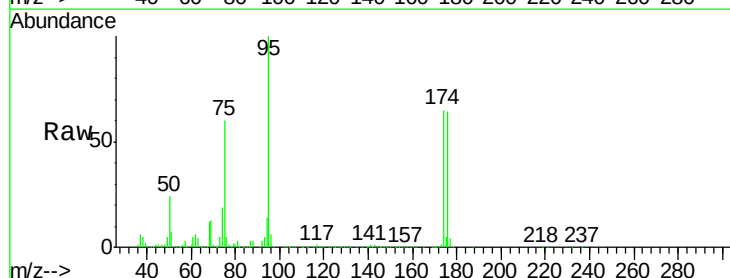
Tgt Ion: 95 Resp: 2007228

Ion Ratio Lower Upper

95 100

174 66.3 53.0 79.6

175 4.8 3.9 5.9



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

14.70

1200000

1000000

800000

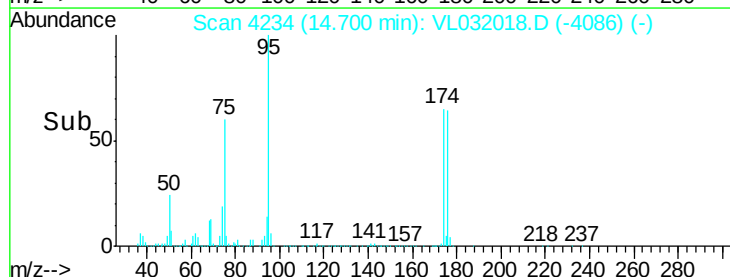
600000

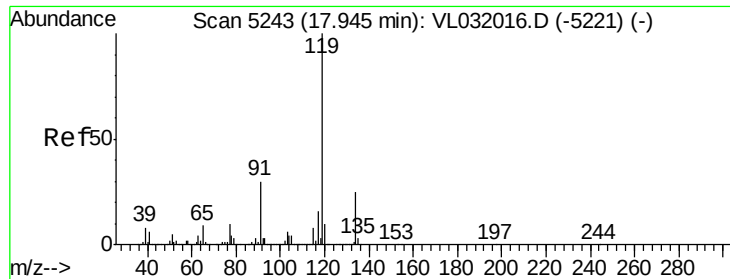
400000

200000

0

Time-->

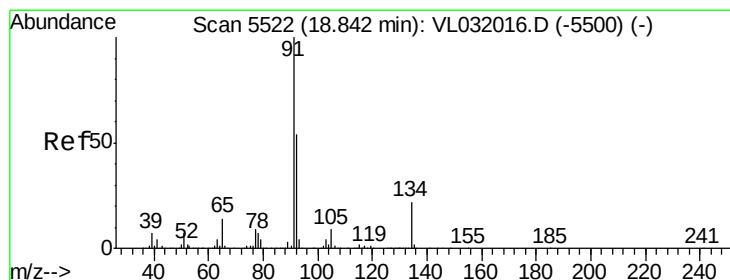
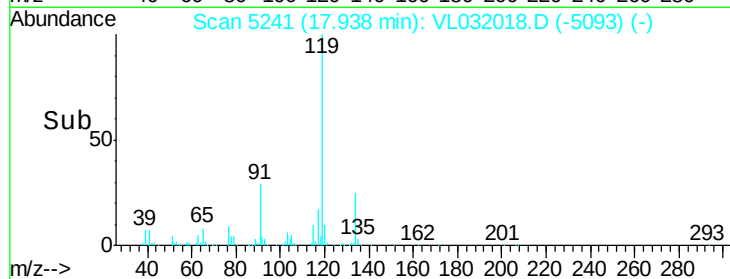
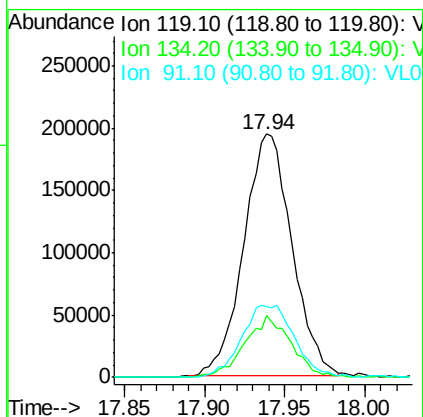
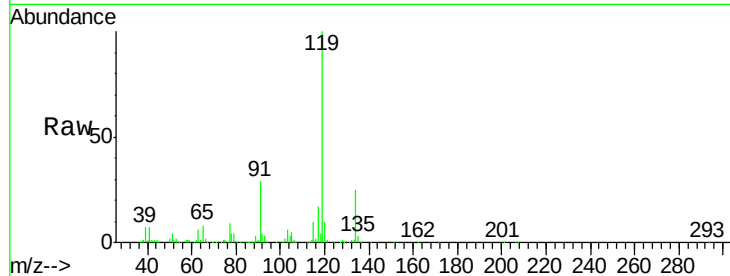




#69
p-Isopropyltoluene
Concen: 1.00 ppbv
RT: 17.94 min Scan# 5241
Delta R.T. -0.02 min
Lab File: VL032018.D
Acq: 31 May 2018 17:23

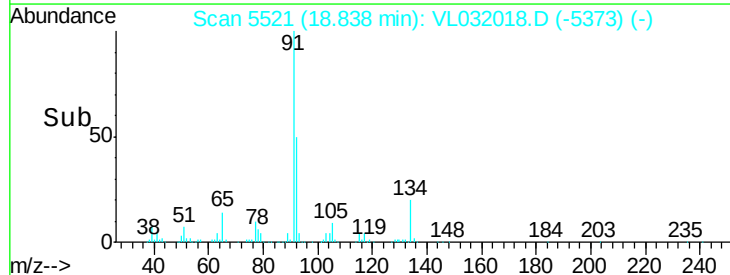
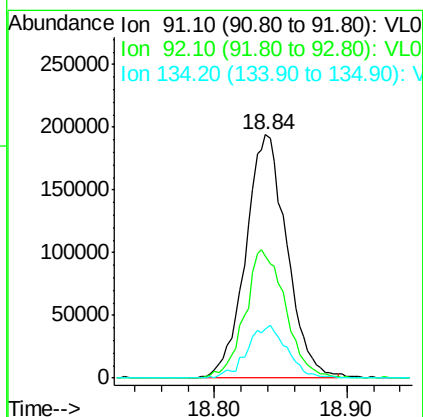
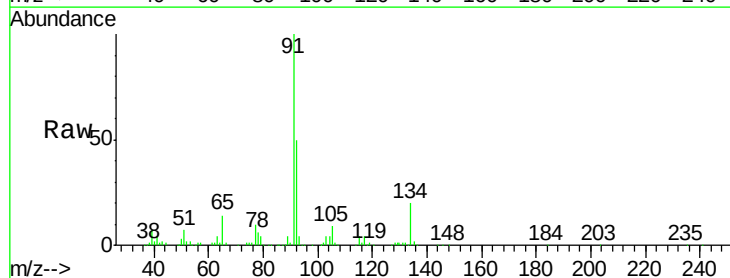
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

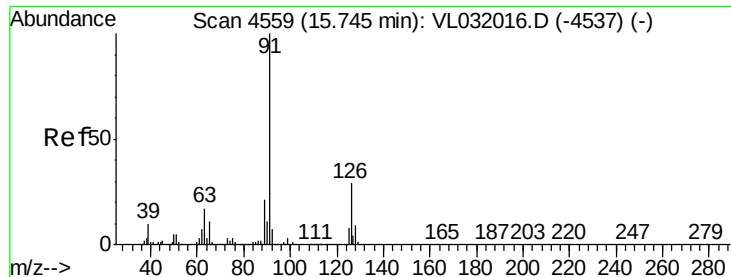
Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.6	19.8	29.8
91	33.2	23.8	35.6



#70
n-Butylbenzene
Concen: 1.00 ppbv
RT: 18.84 min Scan# 5521
Delta R.T. -0.02 min
Lab File: VL032018.D
Acq: 31 May 2018 17:23

Tgt Ion	Ratio	Lower	Upper
91	100		
92	51.8	41.8	62.8
134	21.1	17.6	26.4

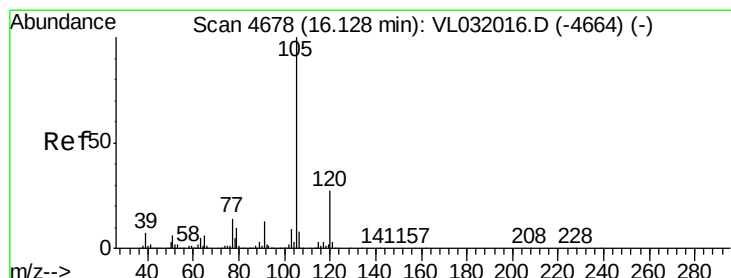
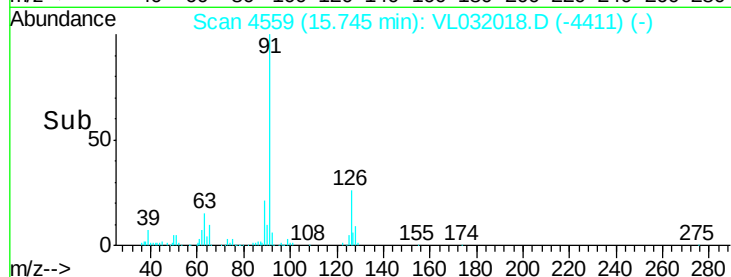
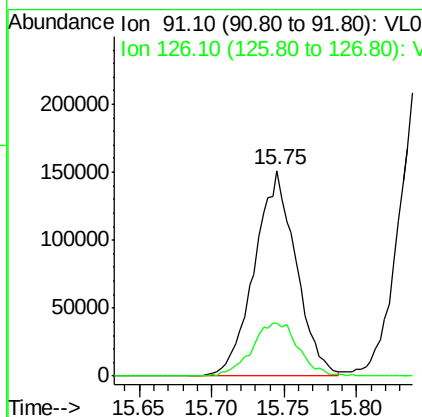
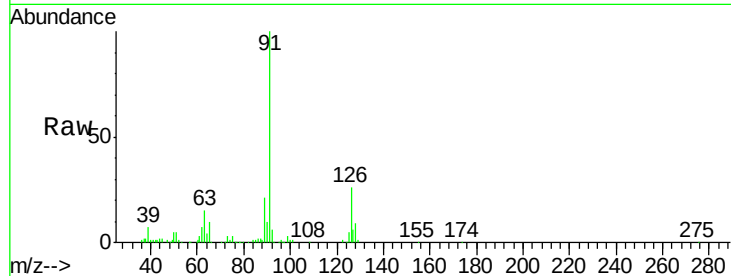




#71
2-Chlorotoluene
Concen: 1.01 ppbv
RT: 15.75 min Scan# 4559
Delta R.T. -0.02 min
Lab File: VL032018.D
Acq: 31 May 2018 17:23

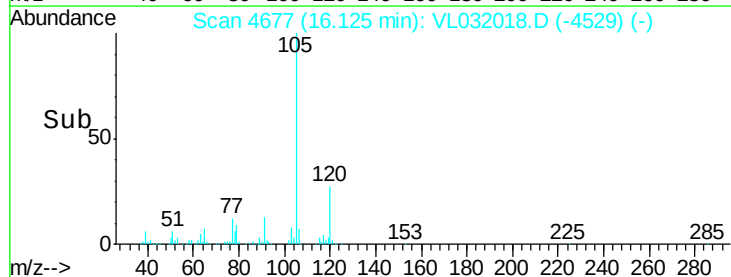
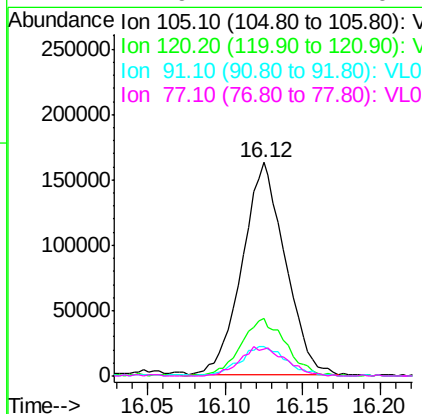
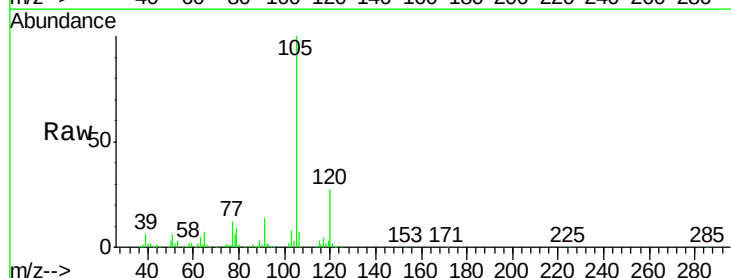
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

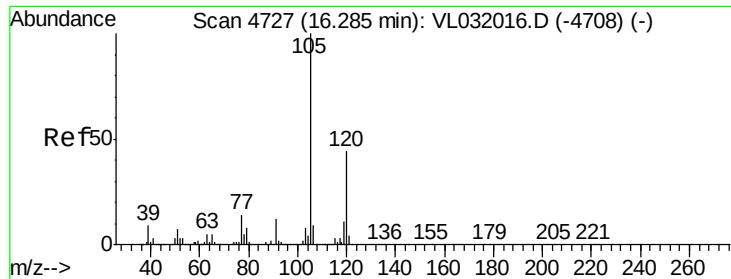
Tgt Ion: 91 Resp: 301303
Ion Ratio Lower Upper
91 100
126 29.1 11.8 47.2



#72
4-Ethyltoluene
Concen: 0.97 ppbv
RT: 16.12 min Scan# 4677
Delta R.T. -0.02 min
Lab File: VL032018.D
Acq: 31 May 2018 17:23

Tgt Ion: 105 Resp: 313851
Ion Ratio Lower Upper
105 100
120 28.6 22.6 33.8
91 14.6 10.5 15.7
77 14.9 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 0.97 ppbv

RT: 16.29 min Scan# 4727

Delta R.T. -0.02 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

Instrument :

MSVOA_L

ClientSampleId :

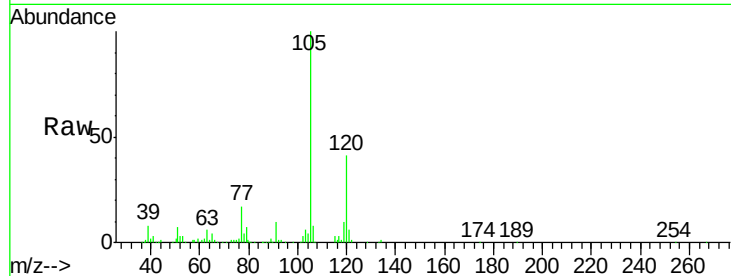
VSTDIC001

Tgt Ion:105 Resp: 289336

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

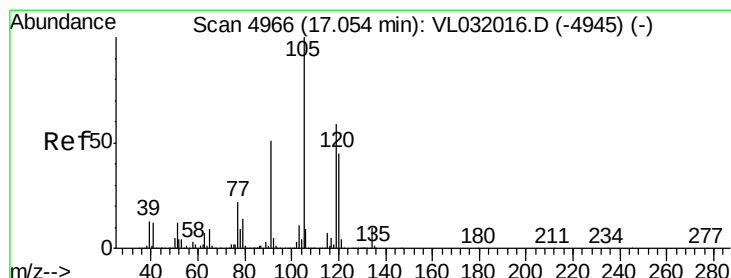
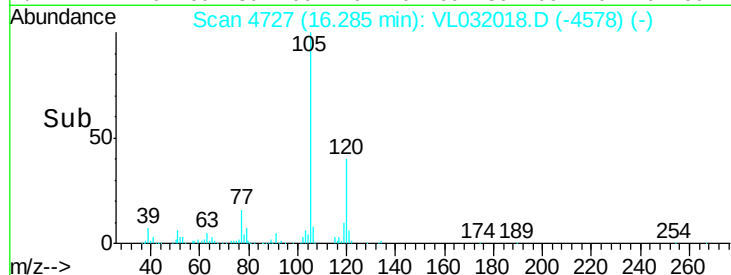
150000

100000

50000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 0.54 ppbv

RT: 17.04 min Scan# 4963

Delta R.T. -0.03 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

Tgt Ion:105 Resp: 179385

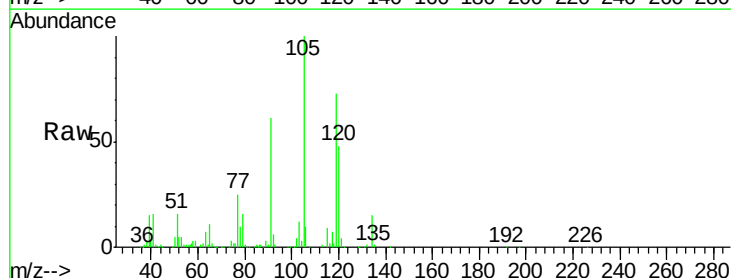
Ion Ratio Lower Upper

105 100

120 47.4 37.8 56.6

91 58.6 40.5 60.7

77 24.6 18.2 27.2



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

200000

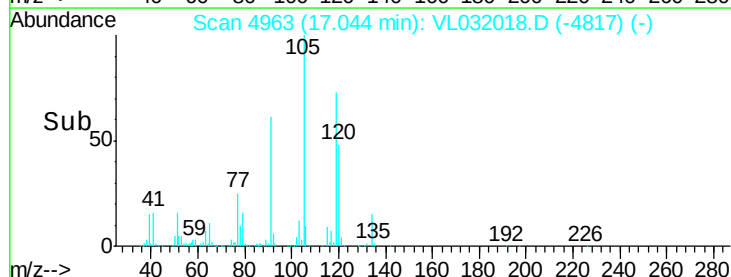
150000

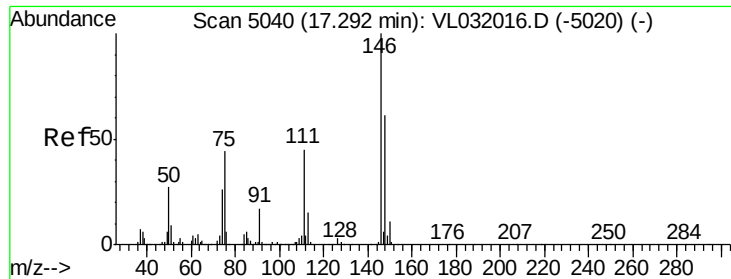
100000

50000

0

Time-->

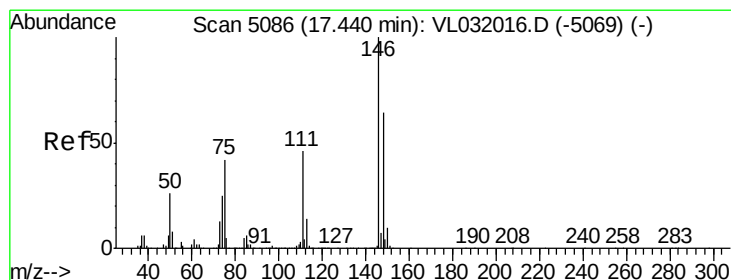
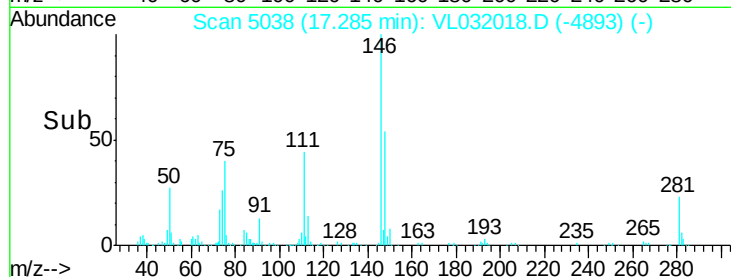
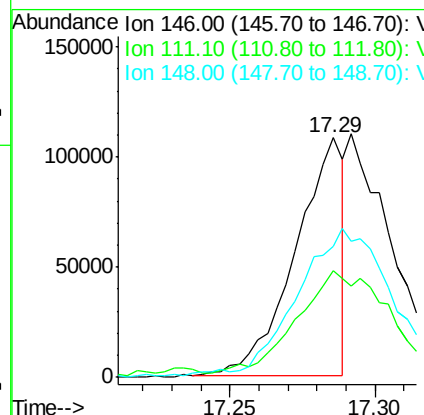
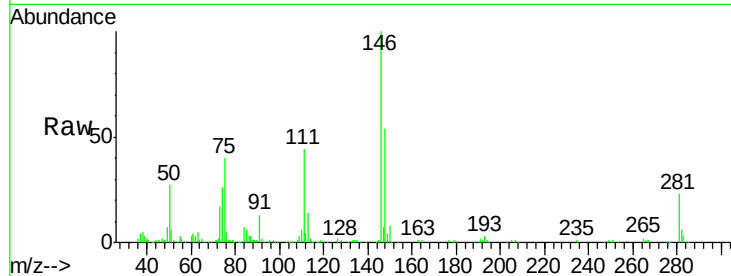




#75
 1,3-Dichlorobenzene
 Concen: 0.61 ppbv
 RT: 17.29 min Scan# 5038
 Delta R.T. -0.03 min
 Lab File: VL032018.D
 Acq: 31 May 2018 17:23

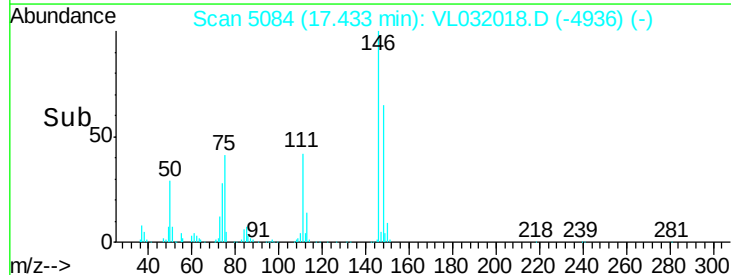
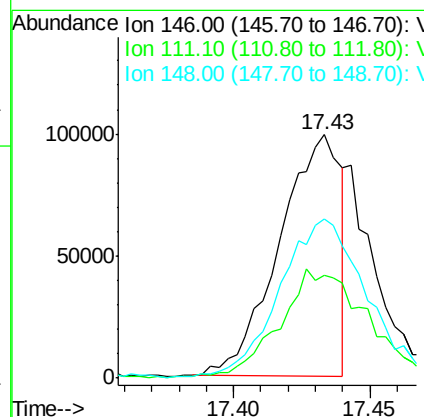
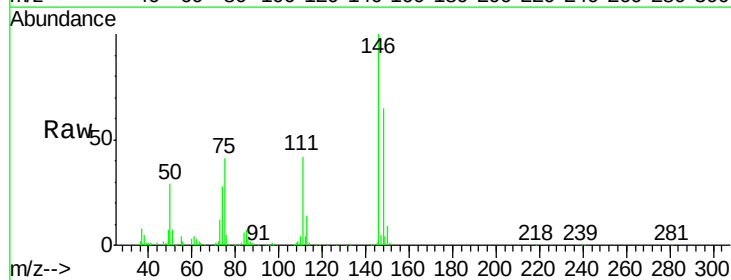
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

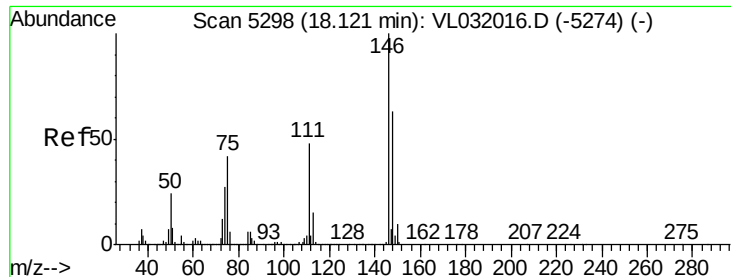
Tgt Ion:146 Resp: 125058
 Ion Ratio Lower Upper
 146 100
 111 95.2 23.5 70.5#
 148 128.4 32.3 96.8#



#76
 1,4-Dichlorobenzene
 Concen: 0.77 ppbv
 RT: 17.43 min Scan# 5084
 Delta R.T. -0.02 min
 Lab File: VL032018.D
 Acq: 31 May 2018 17:23

Tgt Ion:146 Resp: 154172
 Ion Ratio Lower Upper
 146 100
 111 66.2 23.0 69.0
 148 93.3 32.4 97.2

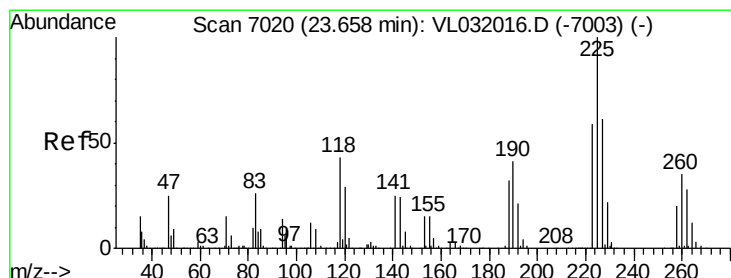
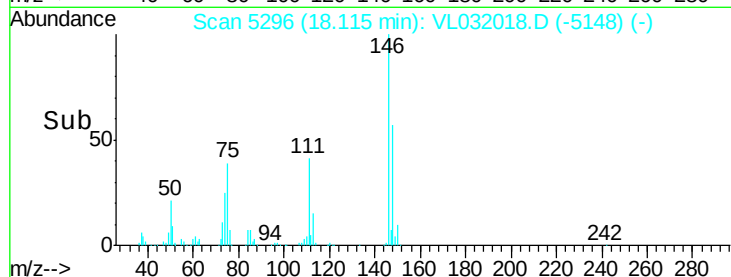
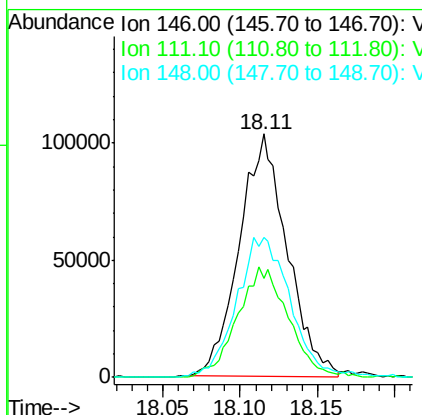
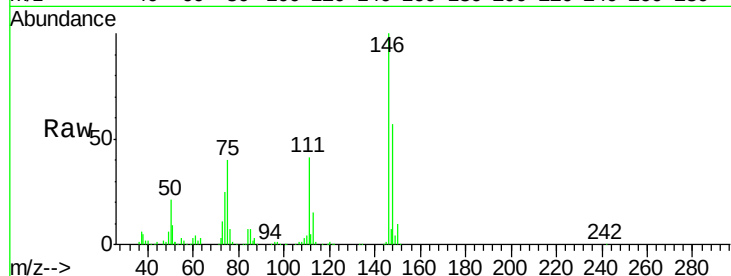




#77
 1,2-Dichlorobenzene
 Concen: 1.09 ppbv
 RT: 18.11 min Scan# 5296
 Delta R.T. -0.02 min
 Lab File: VL032018.D
 Acq: 31 May 2018 17:23

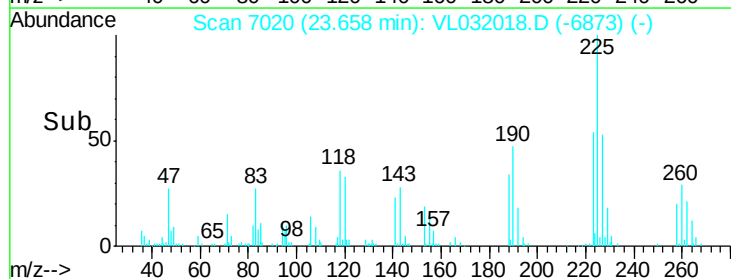
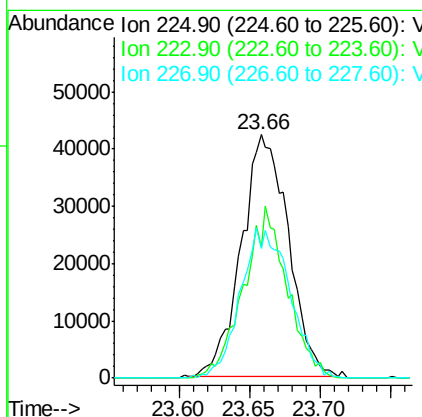
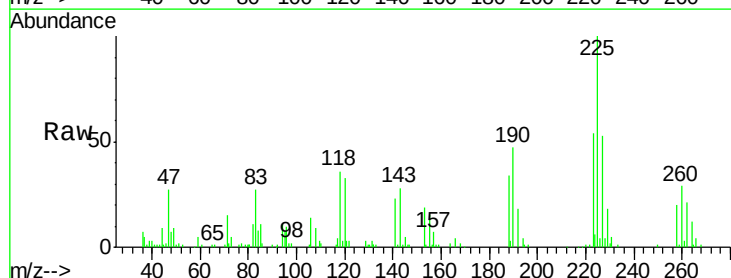
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

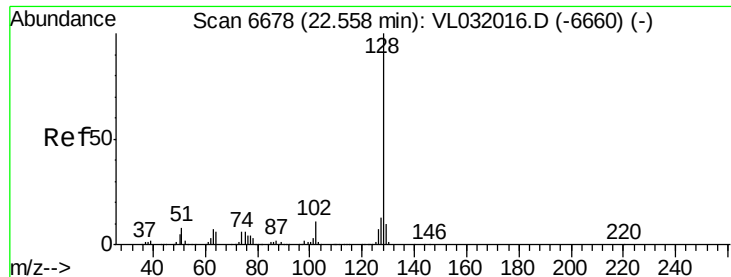
Tgt Ion:146 Resp: 223157
 Ion Ratio Lower Upper
 146 100
 111 48.9 24.2 72.6
 148 65.3 32.0 96.2



#78
 Hexachloro-1,3-Butadiene
 Concen: 1.06 ppbv
 RT: 23.66 min Scan# 7020
 Delta R.T. -0.03 min
 Lab File: VL032018.D
 Acq: 31 May 2018 17:23

Tgt Ion:225 Resp: 98273
 Ion Ratio Lower Upper
 225 100
 223 65.7 50.8 76.2
 227 65.2 50.9 76.3





#79

Naphthalene

Concen: 0.63 ppbv m

RT: 22.56 min Scan# 6680

Delta R.T. -0.02 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

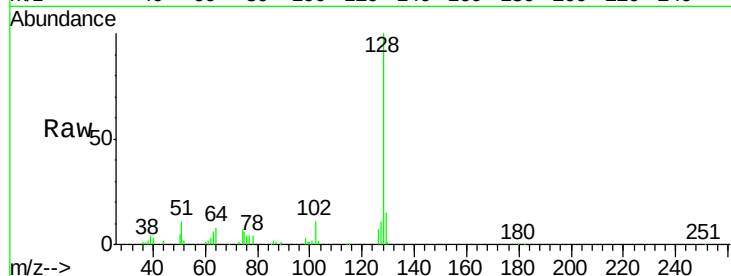
Tgt Ion:128 Resp: 143541

Ion Ratio Lower Upper

128 100

127 11.4 10.0 15.0

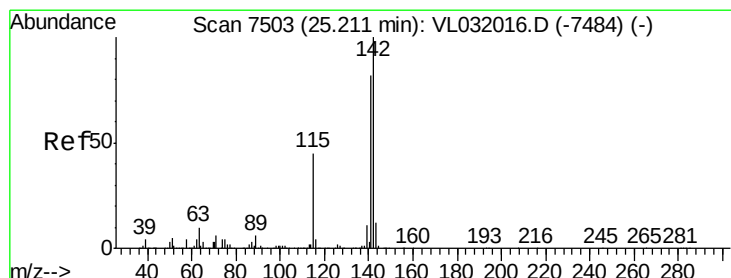
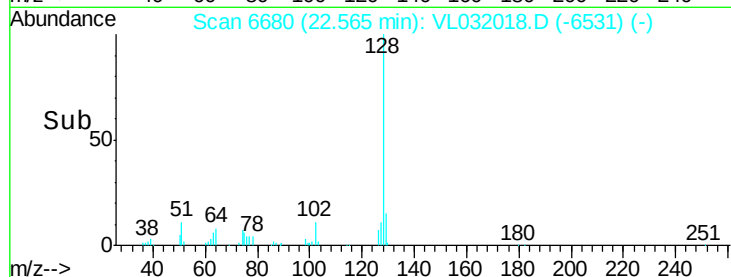
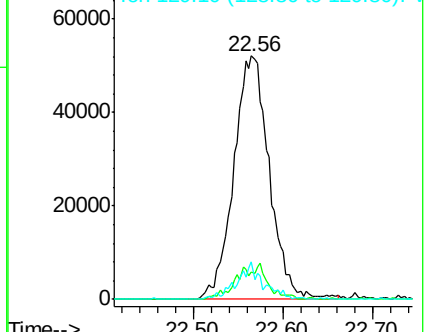
129 15.2 9.0 13.4#



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: 0.21 ppbv

RT: 25.21 min Scan# 7502

Delta R.T. -0.02 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

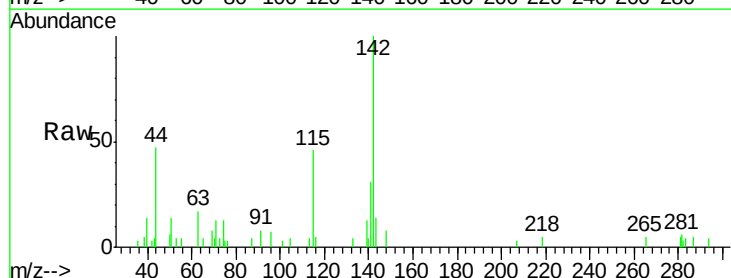
Tgt Ion:142 Resp: 11750

Ion Ratio Lower Upper

142 100

141 84.4 67.9 101.9

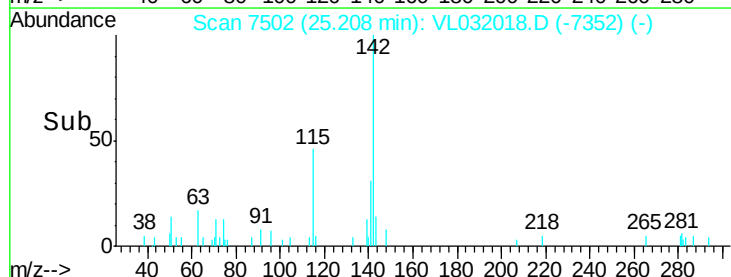
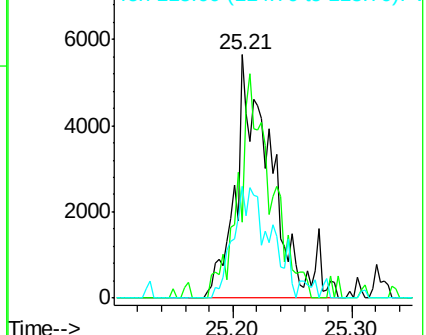
115 51.2 33.8 50.8#

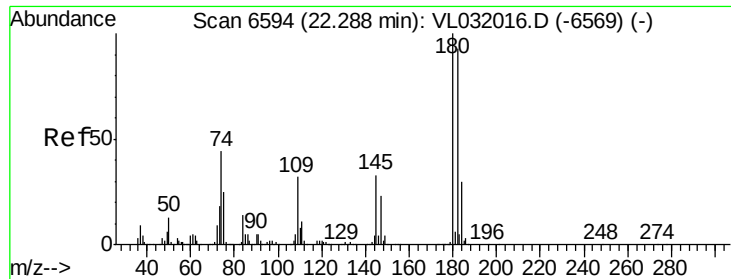


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81

1,2,4-Trichlorobenzene

Concen: 0.77 ppbv m

RT: 22.29 min Scan# 6594

Delta R.T. -0.02 min

Lab File: VL032018.D

Acq: 31 May 2018 17:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

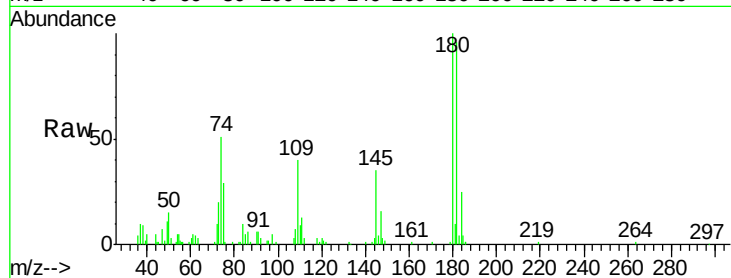
Tgt Ion:180 Resp: 97638

Ion Ratio Lower Upper

180 100

182 0.0 76.6 114.8#

184 0.0 24.0 36.0#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

