

Data File : VL032226.D
Acq On : 6 Jul 2018 9:34
Operator : SY/AP
Sample : VSTDCCC010
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Quant Time: Jul 06 12:53:36 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062918AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 22:27:58 2018
QLast Update : Fri Jun 29 22:27:58 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1634691	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	4134837	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	5402938	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.68	95	3187750	7.72	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	77.20%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.13	85	2223119	10.328	ppbv	99
3) Chlorodifluoromethane	3.06	51	2104215	10.535	ppbv	96
4) Chloromethane	3.23	50	1258088	11.798	ppbv	96
5) Vinyl Chloride	3.35	62	1213012	11.263	ppbv	97
6) Bromomethane	3.58	94	658114	10.728	ppbv	97
7) Chloroethane	3.66	64	421705	11.073	ppbv	98
8) Dichlorotetrafluoroethane	3.28	85	2510786	10.452	ppbv	90
9) Propene	3.09	41	1000826	10.751	ppbv	98
10) Heptane	8.34	43	3176439	11.704	ppbv	99
11) Trichlorofluoromethane	4.07	101	2348961	10.087	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.62	101	1427744	9.206	ppbv	90
13) Ethanol	3.71	45	238010	8.434	ppbv	98
14) Bromoethene	3.85	108	709693	9.617	ppbv	99
15) Acetone	3.96	43	1779139	9.308	ppbv	99
16) 1,3-Butadiene	3.42	39	1120703	12.287	ppbv	86
17) tert-Butyl alcohol	4.42	59	1535307	12.614	ppbv	99
18) 1,1-Dichloroethene	4.42	96	695539	9.375	ppbv	94
19) Isopropyl Alcohol	4.09	45	1446329	9.107	ppbv	# 42
20) Methylene Chloride	4.48	84	614360	8.795	ppbv	98
21) Allyl Chloride	4.55	41	1212965	9.293	ppbv	99
22) trans-1,2-Dichloroethene	5.04	96	726063	9.361	ppbv	98
23) Vinyl Acetate	5.23	43	3488718	10.065	ppbv	98
24) 1,1-Dichloroethane	5.17	63	2354738	10.604	ppbv	98
25) Ethyl Acetate	5.85	43	3888402	9.832	ppbv	100
26) Hexane	5.86	57	1792422	9.842	ppbv	97
27) Carbon Disulfide	4.69	76	1750226	9.668	ppbv	100
28) Methyl tert-Butyl Ether	5.19	73	3073132	9.548	ppbv	99
29) Chloroform	5.93	83	2741352	10.341	ppbv	100
30) Cyclohexane	7.34	84	1812436	10.559	ppbv	95
31) cis-1,2-Dichloroethene	5.72	61	1916653	10.531	ppbv	90
32) 1,1,1-Trichloroethane	6.71	97	3027169	10.894	ppbv	97
34) 2-Butanone	5.41	43	2742045	10.448	ppbv	98
35) Carbon Tetrachloride	7.22	117	3025168	10.688	ppbv	99
36) Benzene	7.10	78	4411135	11.022	ppbv	98
37) 1,2-Dichloroethane	6.50	62	2387071	11.972	ppbv	# 96
38) Trichloroethene	8.05	130	1425209	9.116	ppbv	94
39) 1,2-Dichloropropane	7.83	63	1757731	11.136	ppbv	98
40) 1,4-Dioxane	8.04	88	550956	8.901	ppbv	# 1
41) Tetrahydrofuran	6.23	42	1683658	10.702	ppbv	99
42) Bromodichloromethane	8.01	83	3382477	10.823	ppbv	98
43) Methyl Methacrylate	8.22	69	1934470	11.661	ppbv	98

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 22:27:58 2018
QLast Update : Fri Jun 29 22:27:58 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.08	57	7805791	11.147	ppbv	99
45) t-1,3-Dichloropropene	9.51	75	2380898	11.583	ppbv	99
46) cis-1,3-Dichloropropene	8.93	75	2643807	10.773	ppbv	98
47) 1,1,2-Trichloroethane	9.71	97	1747946	10.654	ppbv	96
48) Dibromochloromethane	10.55	129	2810601	11.066	ppbv	100
49) Bromoform	13.31	173	2126126	9.997	ppbv	100
50) 4-Methyl-2-Pentanone	8.96	43	4512924	10.497	ppbv	99
51) 2-Hexanone	10.36	43	3812207	10.697	ppbv #	99
52) Tetrachloroethene	11.47	164	1337745	9.192	ppbv	96
53) Toluene	10.04	91	5111341	10.567	ppbv	99
54) 1,2-Dibromoethane	10.86	107	2713435	11.002	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.38	131	1945995	8.067	ppbv #	61
57) Chlorobenzene	12.40	112	3623786	7.745	ppbv	95
58) Ethyl Benzene	12.96	91	6941787	7.972	ppbv	96
59) m/p-Xylene	13.25	91	4998704	7.162	ppbv #	21
60) o-Xylene	13.95	91	5344569	7.677	ppbv	95
61) Styrene	13.78	104	4388103	7.692	ppbv	93
62) Isopropylbenzene	14.93	105	7431719	6.943	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.94	83	3738749	6.936	ppbv	100
64) n-propylbenzene	15.82	120	1902857	6.869	ppbv	85
65) tert-Butylbenzene	17.01	119	5896891	6.269	ppbv	92
66) Benzyl Chloride	17.26	91	3337516	5.746	ppbv	93
67) sec-Butylbenzene	17.56	105	8852657	6.428	ppbv	98
69) p-Isopropyltoluene	17.91	119	7009812	6.345	ppbv	96
70) n-Butylbenzene	18.81	91	7734912	6.705	ppbv	98
71) 2-Chlorotoluene	15.72	91	5869299	7.121	ppbv	94
72) 4-Ethyltoluene	16.10	105	6139157	6.828	ppbv	97
73) 1,3,5-Trimethylbenzene	16.25	105	5803946	6.853	ppbv	94
74) 1,2,4-Trimethylbenzene	17.03	105	5540433	6.482	ppbv	94
75) 1,3-Dichlorobenzene	17.27	146	2934874	6.037	ppbv	96
76) 1,4-Dichlorobenzene	17.41	146	3009484	6.104	ppbv	97
77) 1,2-Dichlorobenzene	18.09	146	2878700	5.925	ppbv	97
78) Hexachloro-1,3-Butadiene	23.64	225	1591003	9.404	ppbv	99
79) Naphthalene	22.53	128	4410749	5.677	ppbv	99
80) Naphthalene,2-methyl-	25.19	142	2262161	8.067	ppbv	96
81) 1,2,4-Trichlorobenzene	22.25	180	2068519	5.896	ppbv	100

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

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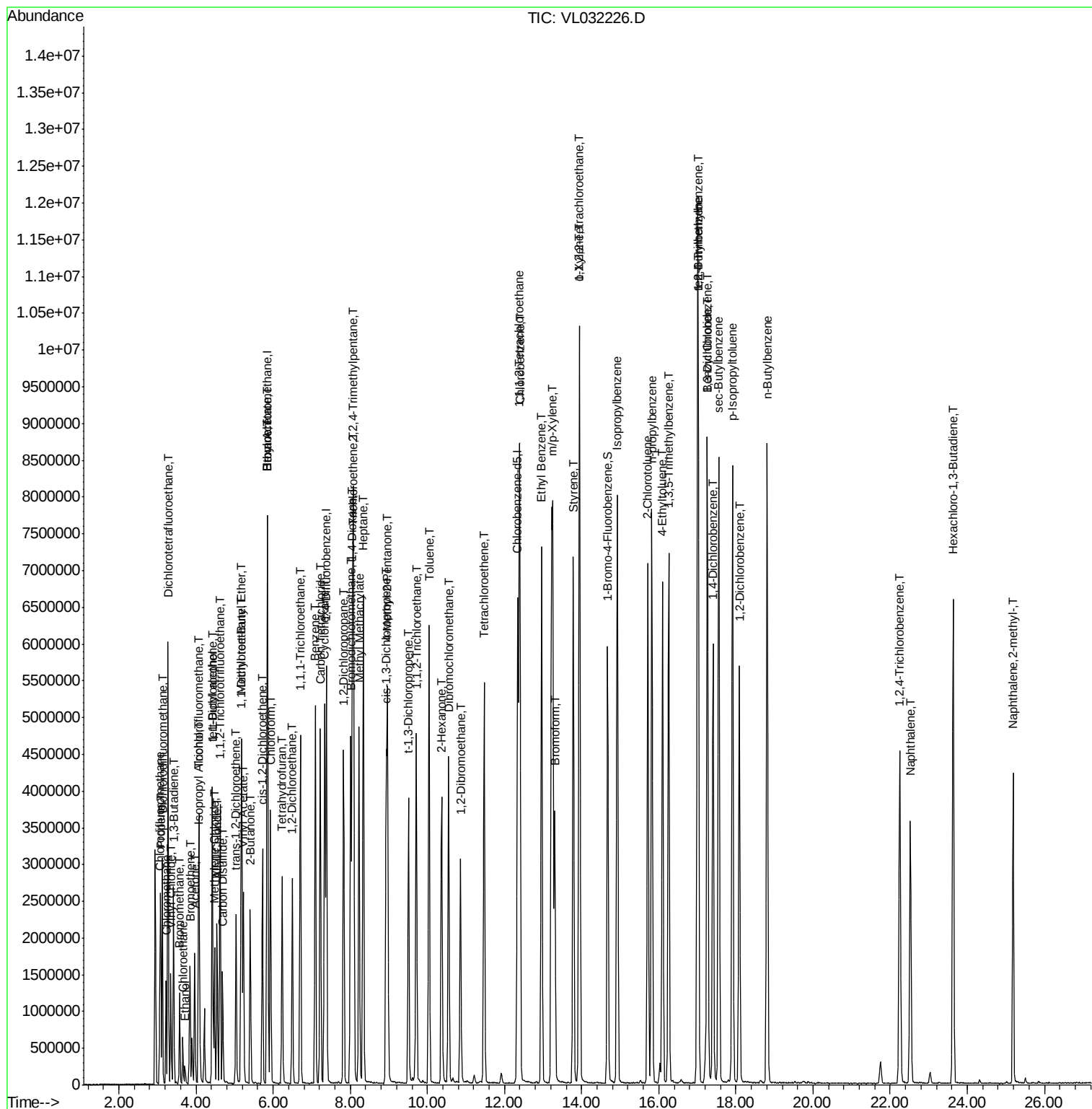
Quant Time: Jul 06 12:53:36 2018

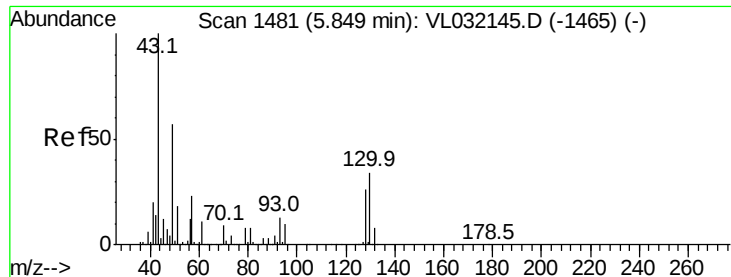
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_L\METHODS\VL062918AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Jun 29 22:27:58 2018

QLast Update : Fri Jun 29 22:27:58 2018

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.84 min Scan# 1479

Delta R.T. -0.02 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

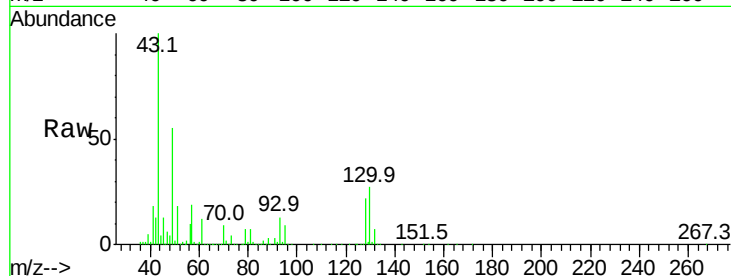
Tgt Ion: 49 Resp: 1634691

Ion Ratio Lower Upper

49 100

128 40.8 23.4 70.0

130 52.4 30.3 90.9



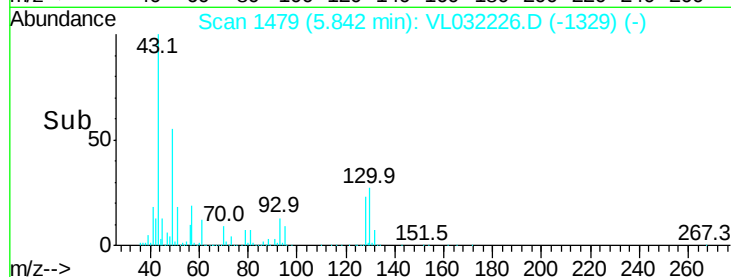
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

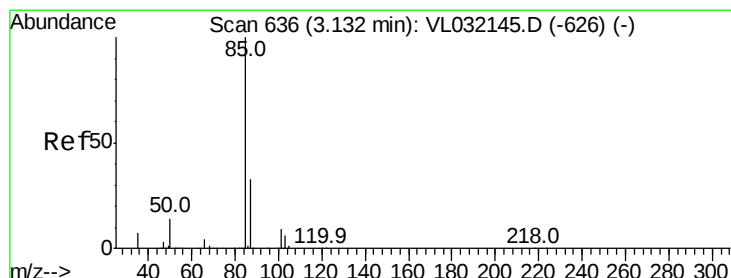
Ion 130.00 (129.70 to 130.70): VL0

5.84

Time-->



Time-->



#2

Dichlorodifluoromethane

Concen: 10.328 ppbv

RT: 3.13 min Scan# 635

Delta R.T. -0.01 min

Lab File: VL032226.D

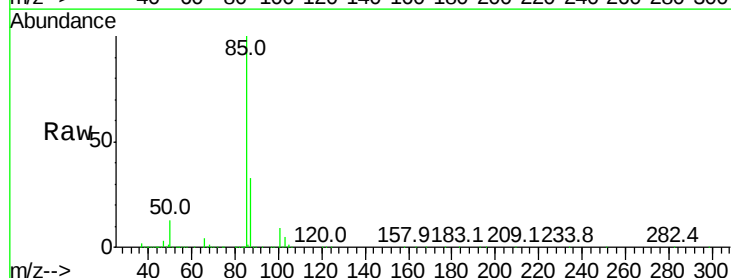
Acq: 6 Jul 2018 9:34

Tgt Ion: 85 Resp: 2223119

Ion Ratio Lower Upper

85 100

87 32.8 26.7 40.1

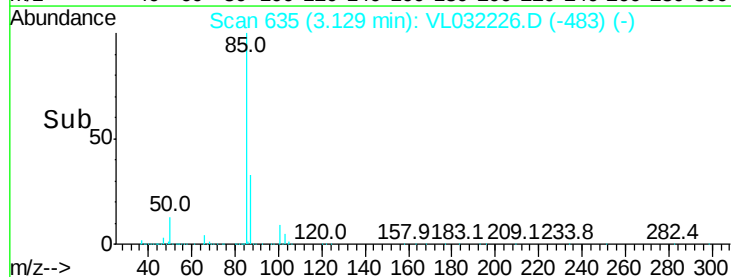


Abundance Ion 85.00 (84.70 to 85.70): VL0

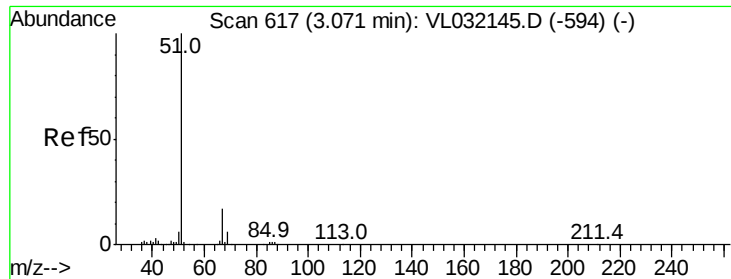
Ion 87.00 (86.70 to 87.70): VL0

3.13

Time-->



Time-->



#3

Chlorodifluoromethane

Concen: 10.535 ppbv

RT: 3.06 min Scan# 615

Delta R.T. -0.01 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Instrument :

MSVOA_L

ClientSampleId :

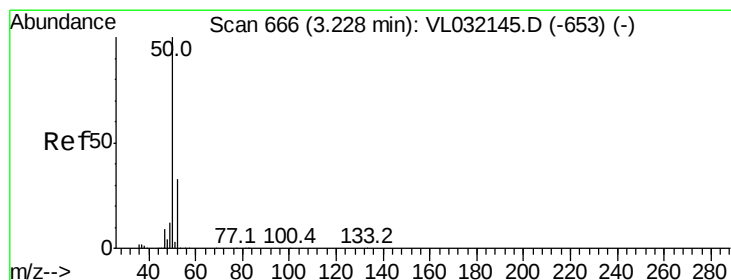
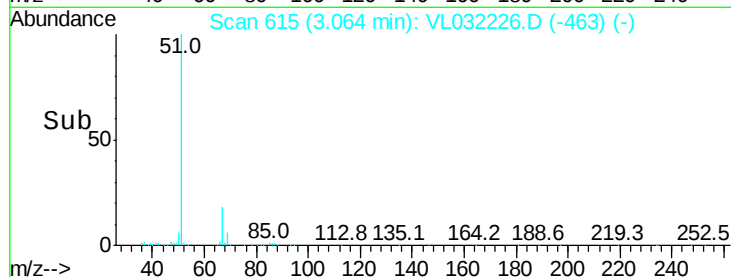
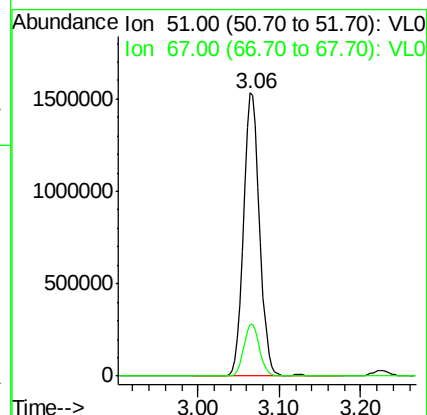
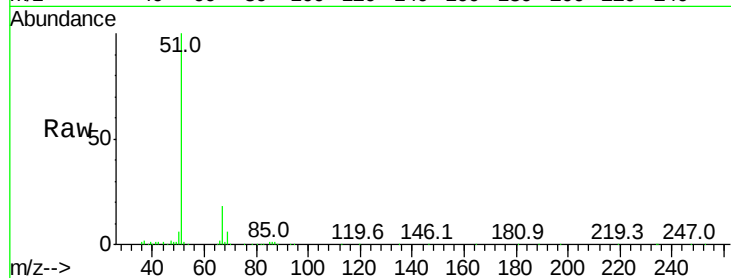
VSTDCCC010EC

Tgt Ion: 51 Resp: 2104215

Ion Ratio Lower Upper

51 100

67 18.3 13.2 19.8



#4

Chloromethane

Concen: 11.798 ppbv

RT: 3.23 min Scan# 665

Delta R.T. -0.01 min

Lab File: VL032226.D

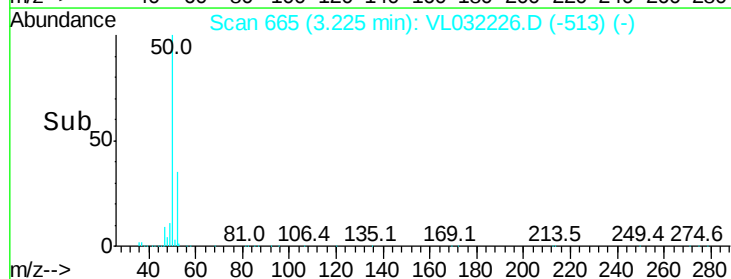
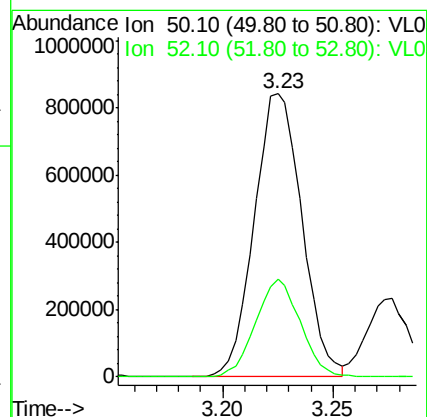
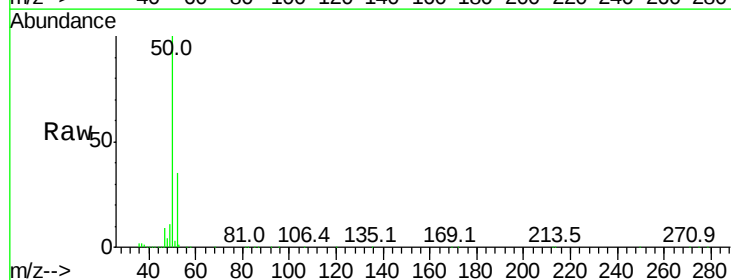
Acq: 6 Jul 2018 9:34

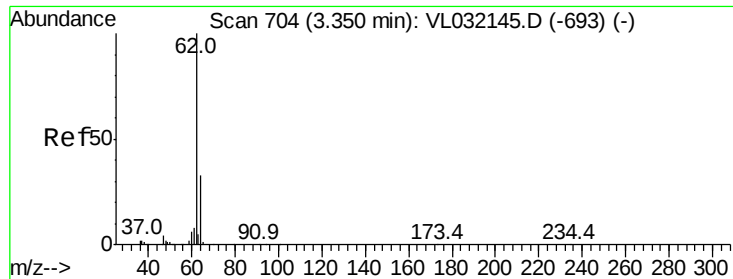
Tgt Ion: 50 Resp: 1258088

Ion Ratio Lower Upper

50 100

52 34.8 26.0 39.0





#5

Vinyl Chloride

Concen: 11.263 ppbv

RT: 3.35 min Scan# 703

Delta R.T. -0.01 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Instrument :

MSVOA_L

ClientSampleId :

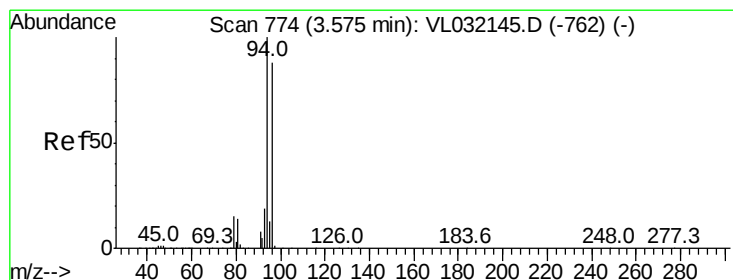
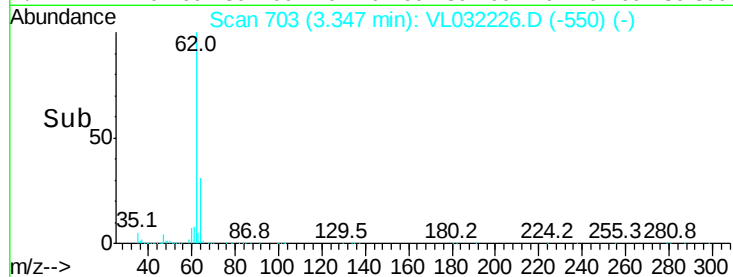
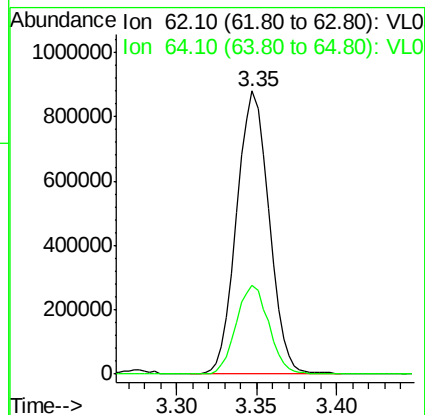
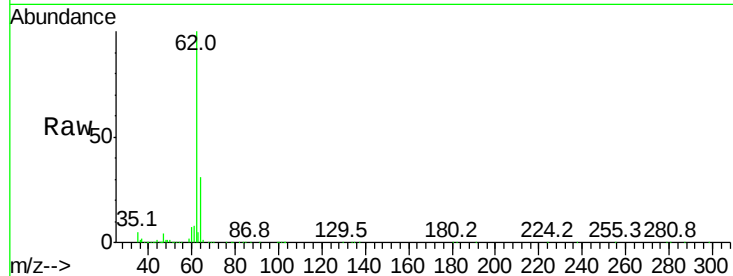
VSTDCCC010EC

Tgt Ion: 62 Resp: 1213012

Ion Ratio Lower Upper

62 100

64 31.2 26.1 39.1



#6

Bromomethane

Concen: 10.728 ppbv

RT: 3.58 min Scan# 774

Delta R.T. -0.01 min

Lab File: VL032226.D

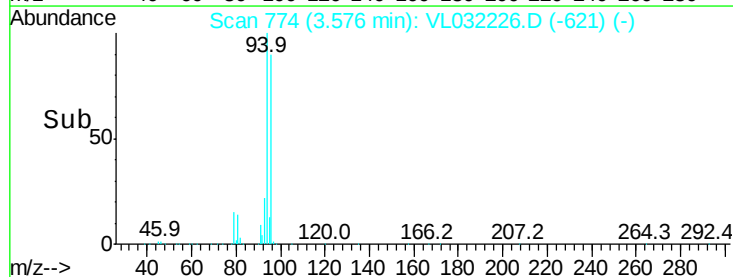
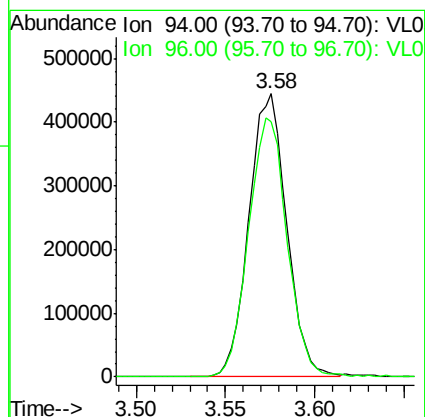
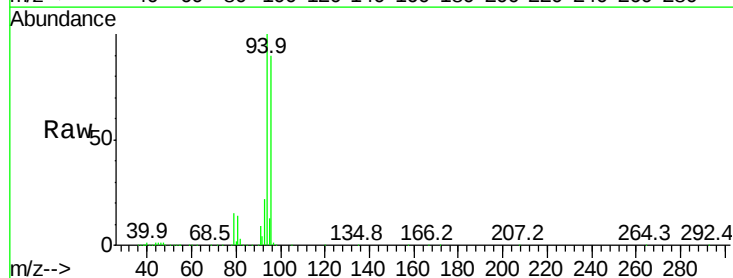
Acq: 6 Jul 2018 9:34

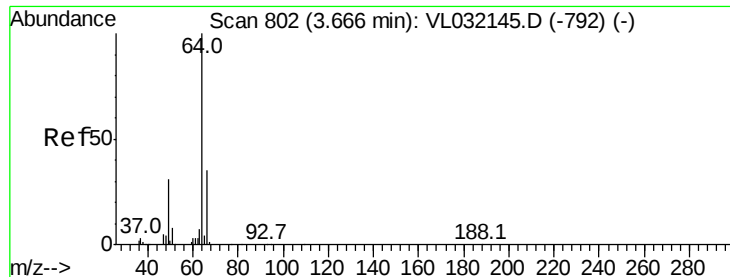
Tgt Ion: 94 Resp: 658114

Ion Ratio Lower Upper

94 100

96 90.3 74.7 112.1





#7

Chloroethane

Concen: 11.073 ppbv

RT: 3.66 min Scan# 800

Delta R.T. -0.01 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Instrument :

MSVOA_L

ClientSampleId :

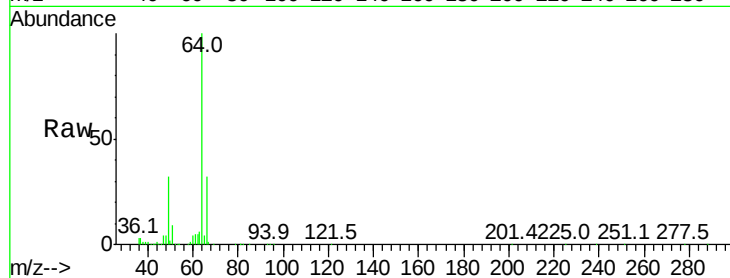
VSTDCCC010EC

Tgt Ion: 64 Resp: 421705

Ion Ratio Lower Upper

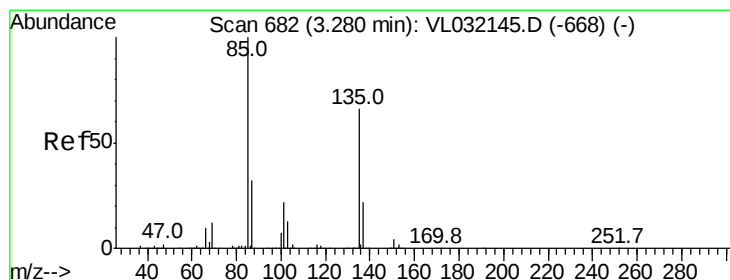
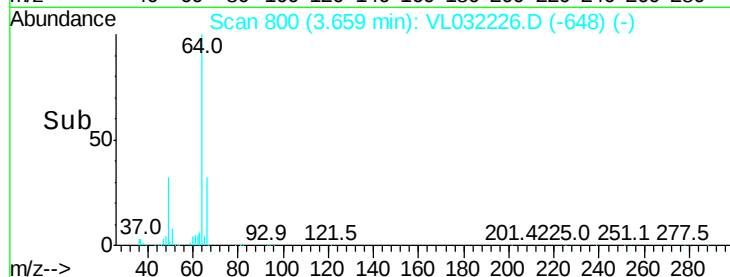
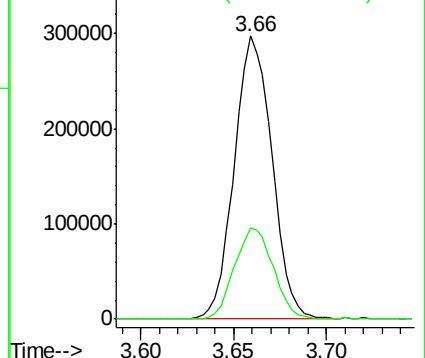
64 100

66 32.4 26.9 40.3



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 10.452 ppbv

RT: 3.28 min Scan# 681

Delta R.T. -0.01 min

Lab File: VL032226.D

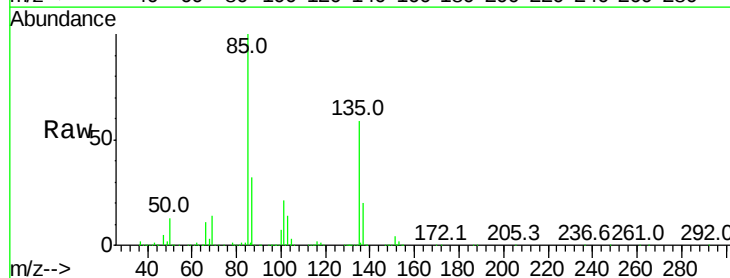
Acq: 6 Jul 2018 9:34

Tgt Ion: 85 Resp: 2510786

Ion Ratio Lower Upper

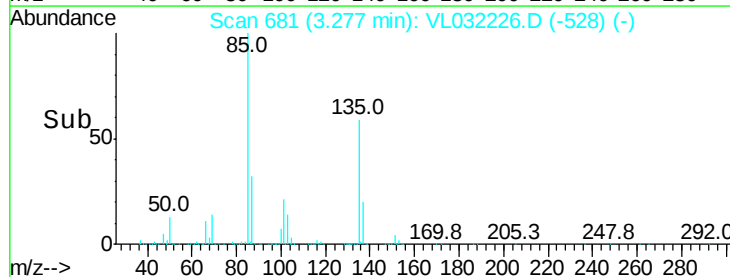
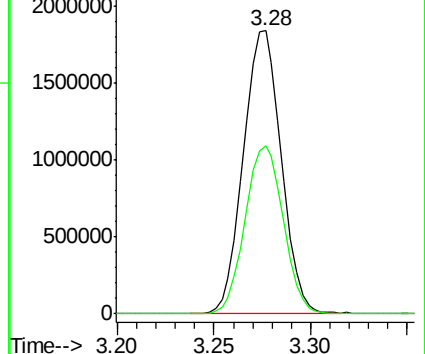
85 100

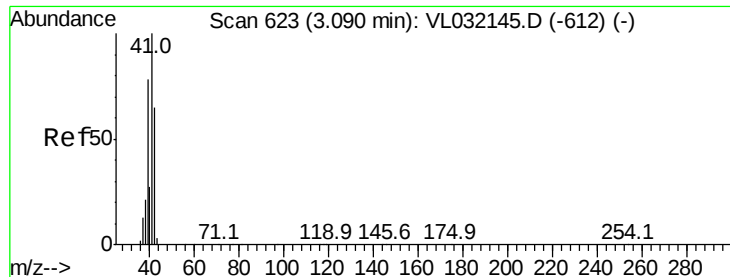
135 60.1 54.6 82.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 10.751 ppbv

RT: 3.09 min Scan# 622

Delta R.T. -0.01 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

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ClientSampleId :

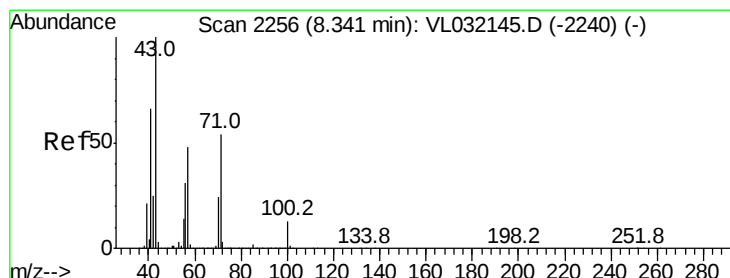
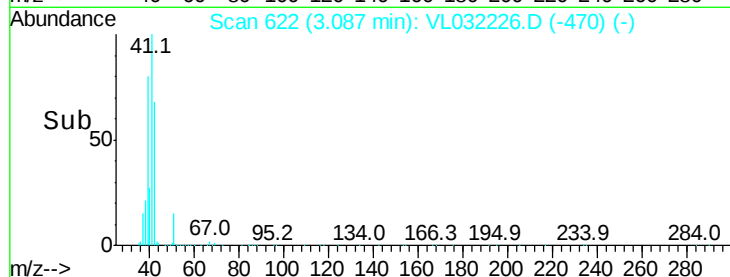
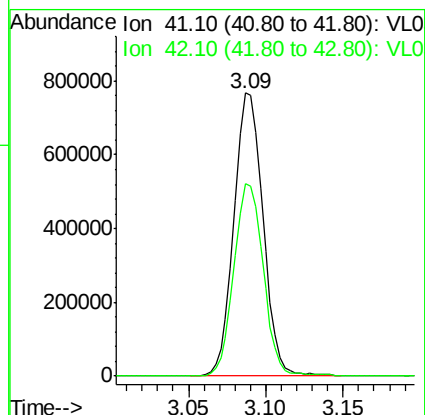
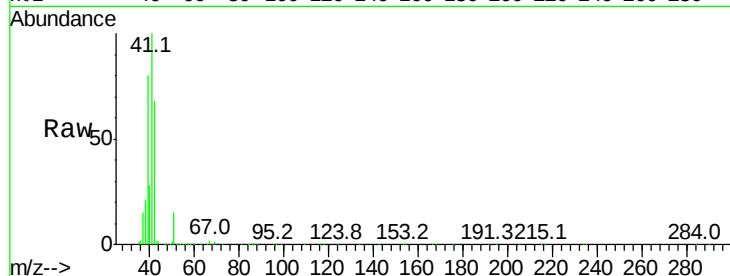
VSTDCCC010EC

Tgt Ion: 41 Resp: 1000826

Ion Ratio Lower Upper

41 100

42 68.9 56.2 84.4



#10

Heptane

Concen: 11.704 ppbv

RT: 8.34 min Scan# 2255

Delta R.T. -0.02 min

Lab File: VL032226.D

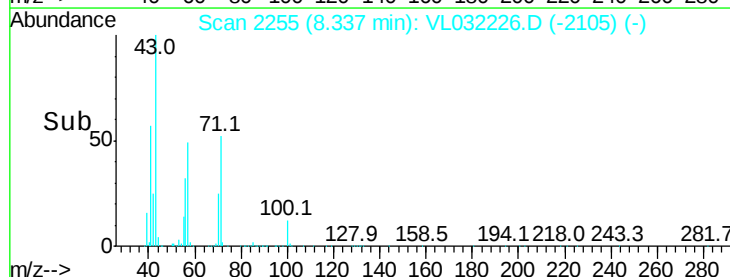
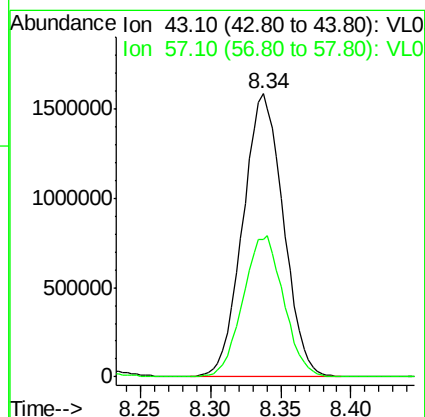
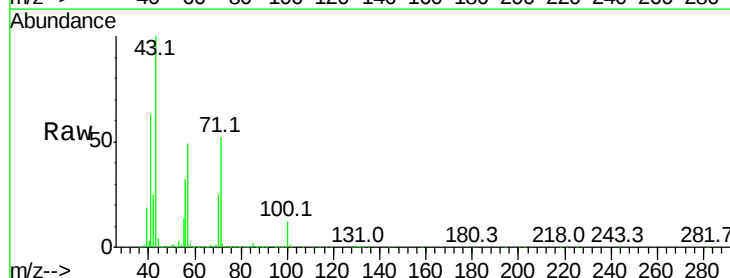
Acq: 6 Jul 2018 9:34

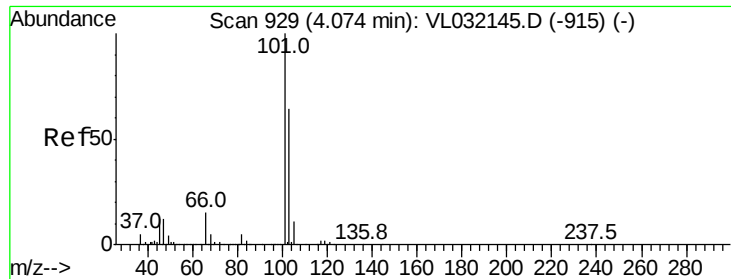
Tgt Ion: 43 Resp: 3176439

Ion Ratio Lower Upper

43 100

57 50.2 39.8 59.8

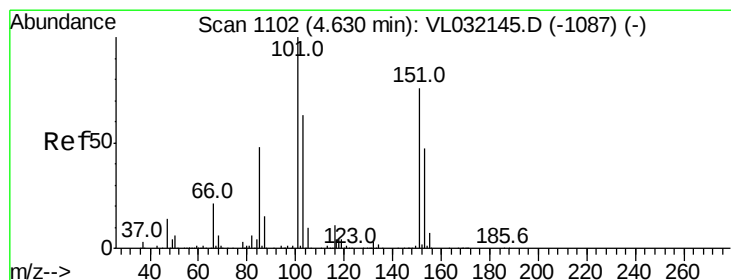
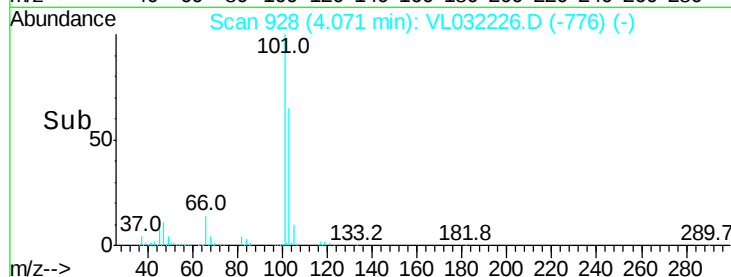
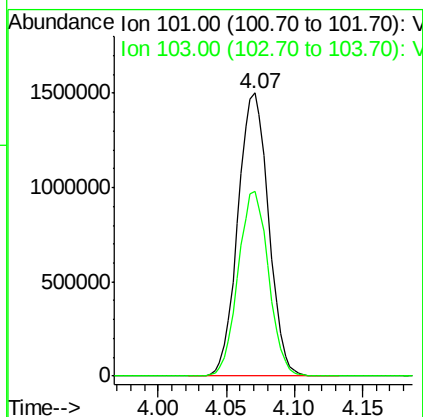
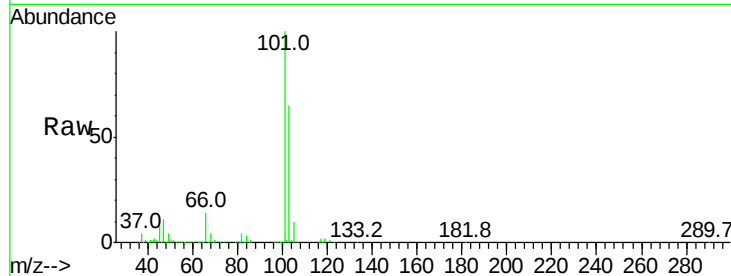




#11
 Trichlorofluoromethane
 Concen: 10.087 ppbv
 RT: 4.07 min Scan# 928
 Delta R.T. -0.01 min
 Lab File: VL032226.D
 Acq: 6 Jul 2018 9:34

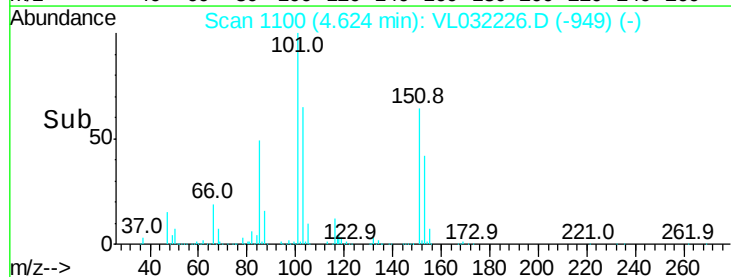
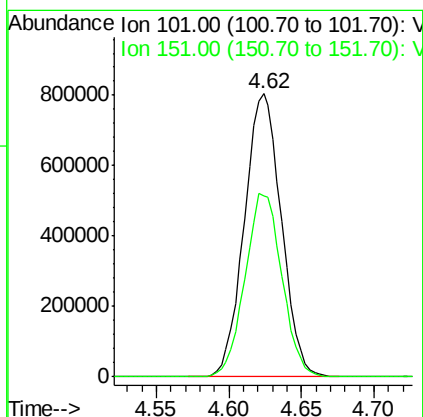
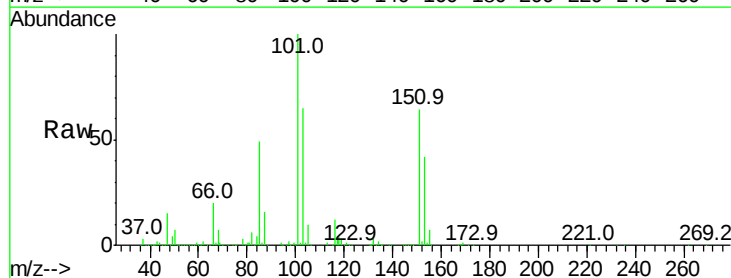
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

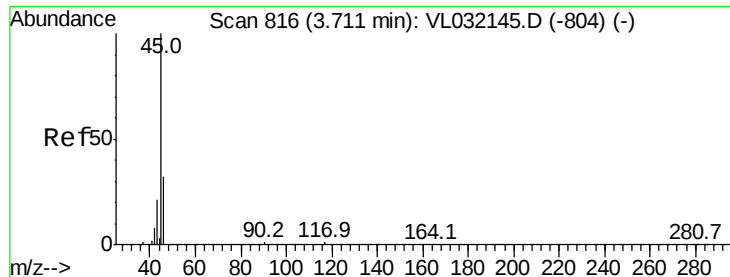
Tgt Ion:101 Resp: 2348961
 Ion Ratio Lower Upper
 101 100
 103 65.2 51.4 77.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.206 ppbv
 RT: 4.62 min Scan# 1100
 Delta R.T. -0.02 min
 Lab File: VL032226.D
 Acq: 6 Jul 2018 9:34

Tgt Ion:101 Resp: 1427744
 Ion Ratio Lower Upper
 101 100
 151 64.7 58.8 88.2





#13

Ethanol

Concen: 8.434 ppbv

RT: 3.71 min Scan# 817

Delta R.T. -0.01 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Instrument :

MSVOA_L

ClientSampleId :

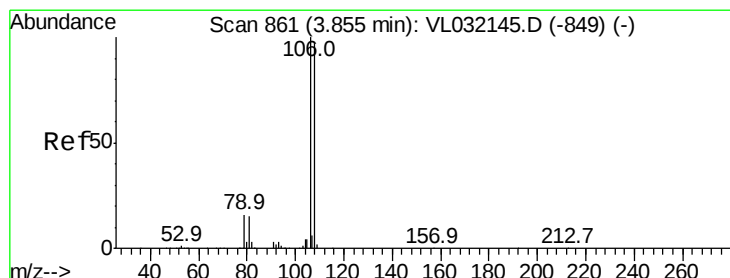
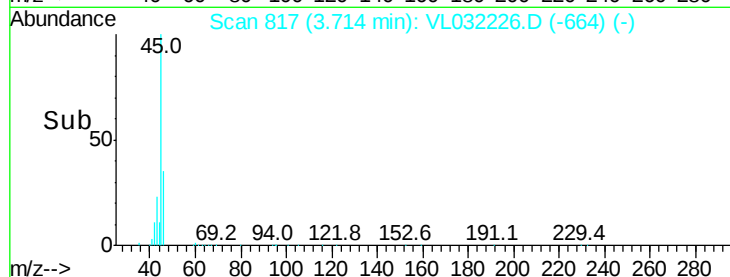
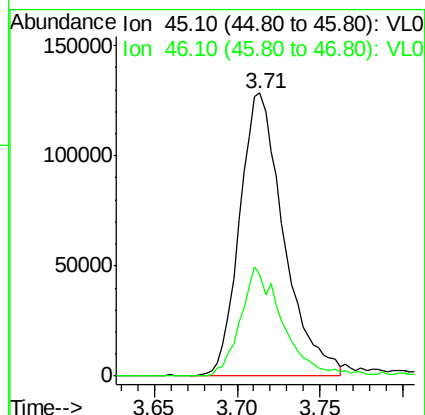
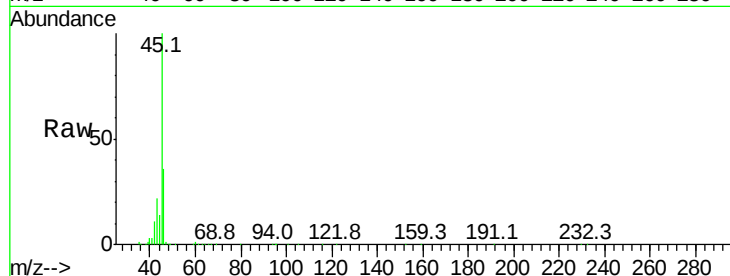
VSTDCCC010EC

Tgt Ion: 45 Resp: 238010

Ion Ratio Lower Upper

45 100

46 37.9 14.6 58.4



#14

Bromoethene

Concen: 9.617 ppbv

RT: 3.85 min Scan# 860

Delta R.T. -0.01 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

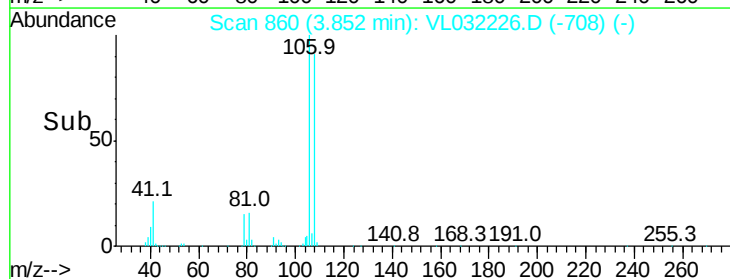
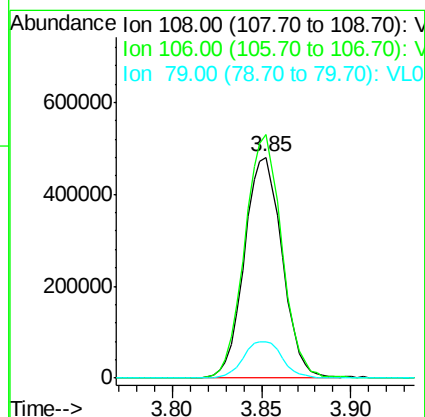
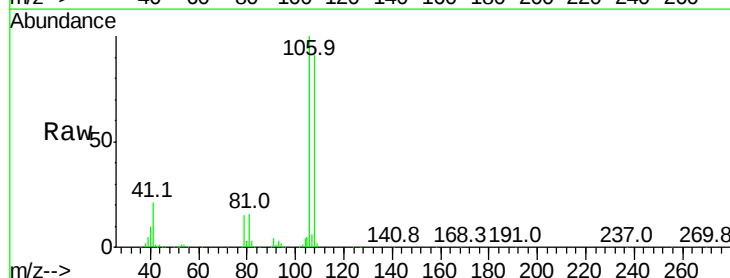
Tgt Ion: 108 Resp: 709693

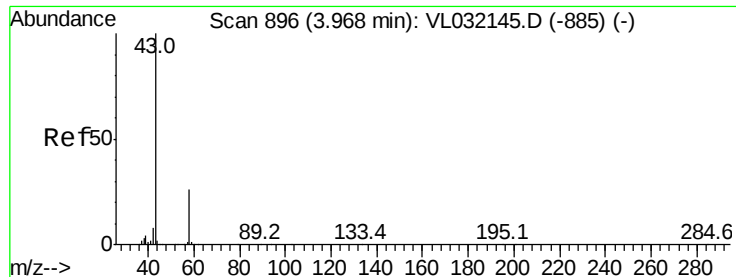
Ion Ratio Lower Upper

108 100

106 108.8 86.3 129.5

79 17.1 12.7 19.1





#15

Acetone

Concen: 9.308 ppbv

RT: 3.96 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Instrument :

MSVOA_L

ClientSampleId :

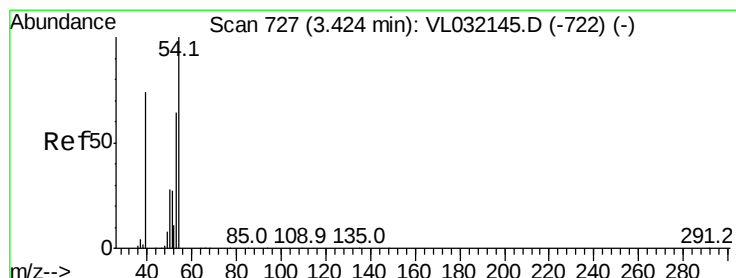
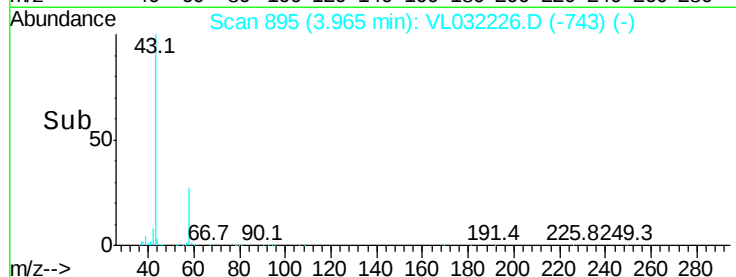
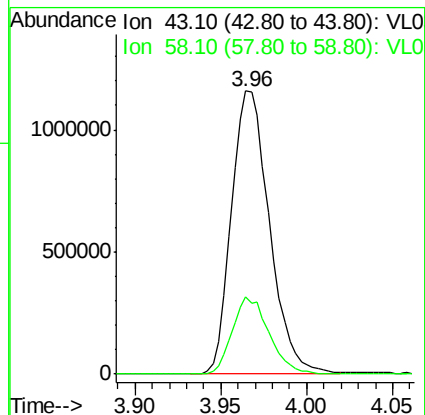
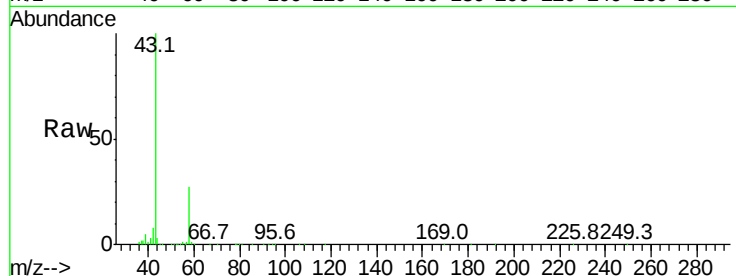
VSTDCCC010EC

Tgt Ion: 43 Resp: 1779139

Ion Ratio Lower Upper

43 100

58 26.4 21.4 32.0



#16

1,3-Butadiene

Concen: 12.287 ppbv

RT: 3.42 min Scan# 726

Delta R.T. -0.01 min

Lab File: VL032226.D

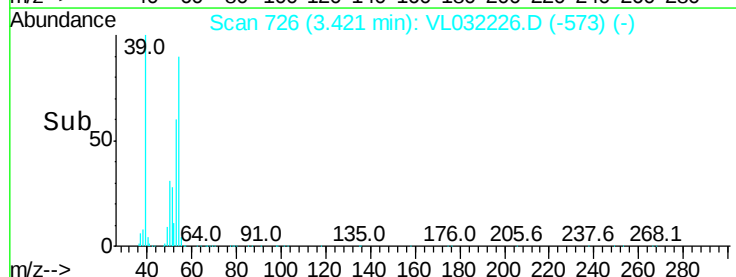
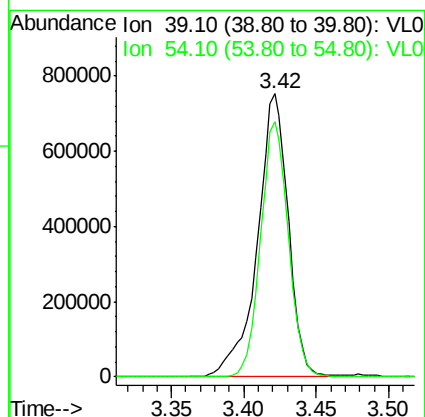
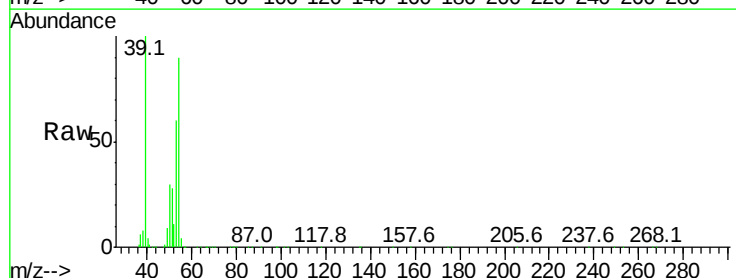
Acq: 6 Jul 2018 9:34

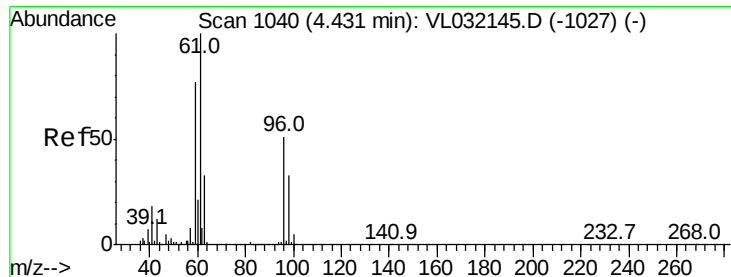
Tgt Ion: 39 Resp: 1120703

Ion Ratio Lower Upper

39 100

54 81.3 75.8 113.6





#17

tert-Butyl alcohol

Concen: 12.614 ppbv

RT: 4.42 min Scan# 1038

Delta R.T. -0.01 min

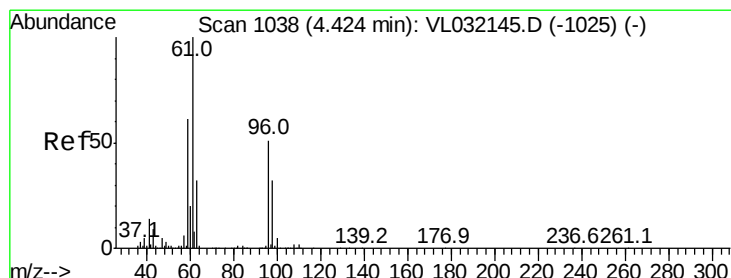
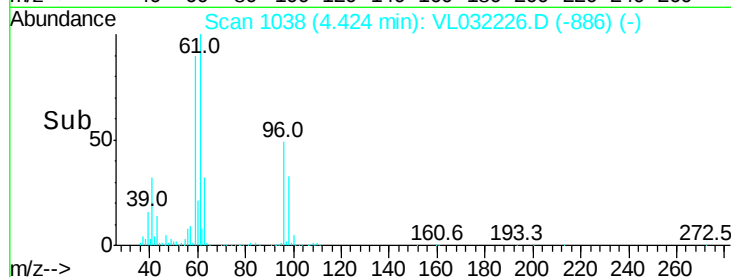
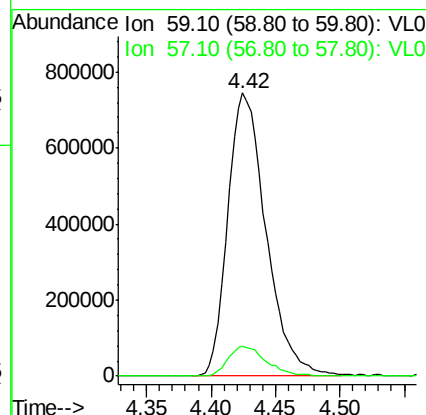
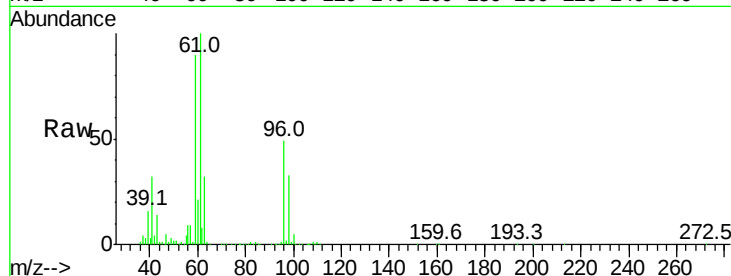
Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 59 Resp: 1535307

Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.2	12.2



#18

1,1-Dichloroethene

Concen: 9.375 ppbv

RT: 4.42 min Scan# 1037

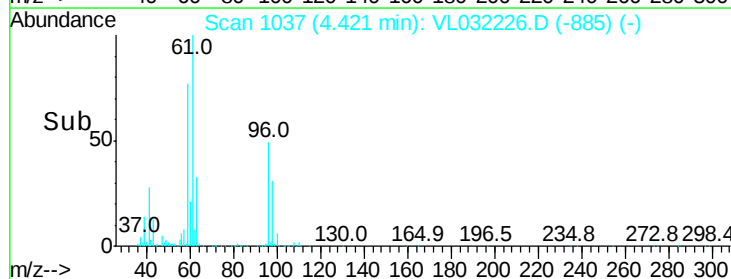
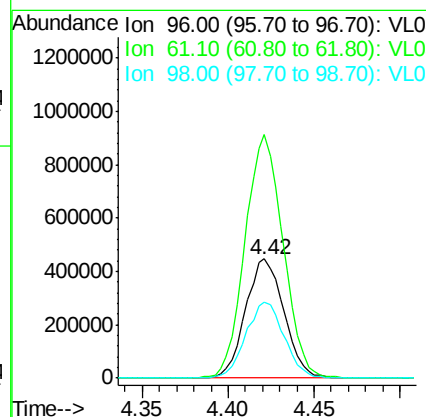
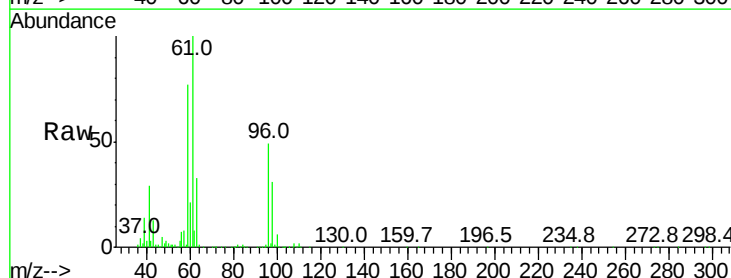
Delta R.T. -0.01 min

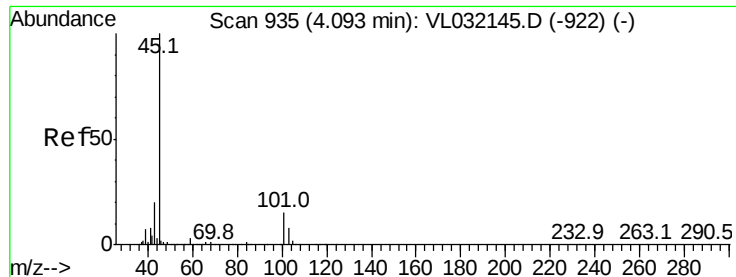
Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Tgt Ion: 96 Resp: 695539

Ion	Ratio	Lower	Upper
96	100		
61	204.6	154.1	231.1
98	63.9	50.3	75.5





#19

Isopropyl Alcohol

Concen: 9.107 ppbv

RT: 4.09 min Scan# 934

Delta R.T. -0.01 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Instrument :

MSVOA_L

ClientSampleId :

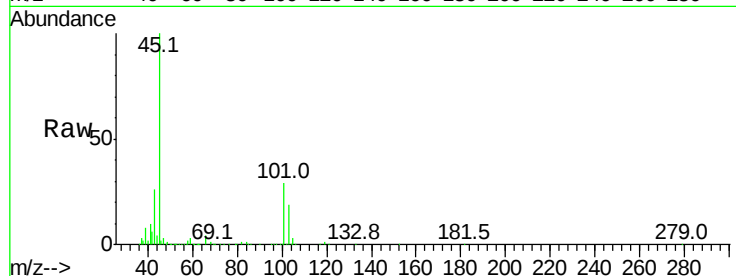
VSTDCCC010EC

Tgt Ion: 45 Resp: 1446329

Ion Ratio Lower Upper

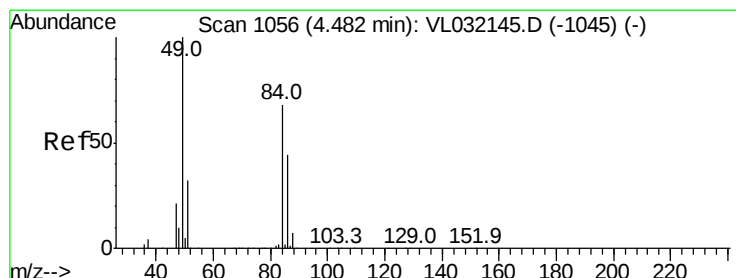
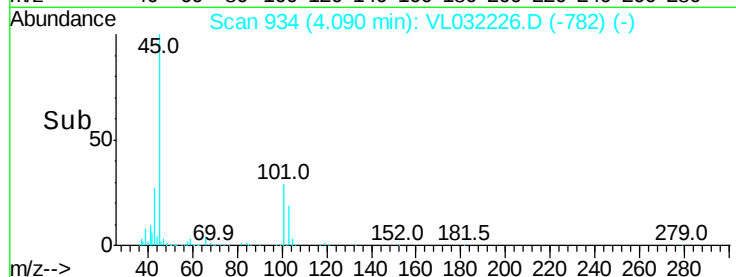
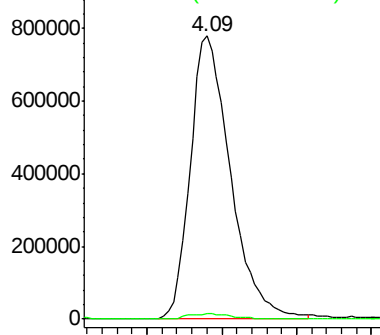
45 100

58 2.3 29.4 44.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 8.795 ppbv

RT: 4.48 min Scan# 1055

Delta R.T. -0.01 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Tgt Ion: 84 Resp: 614360

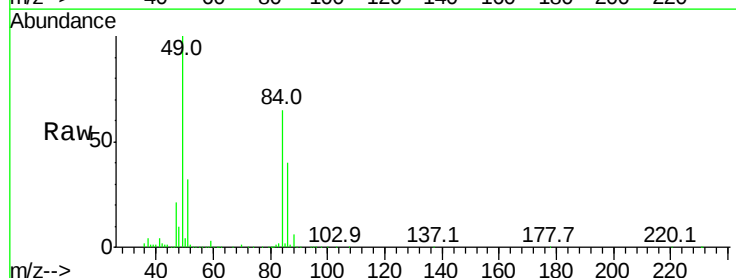
Ion Ratio Lower Upper

84 100

49 152.5 119.6 179.4

51 48.1 36.3 54.5

86 61.1 49.7 74.5

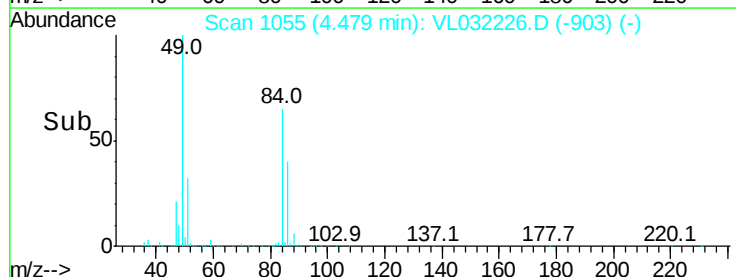
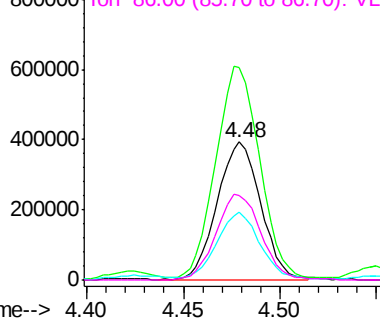


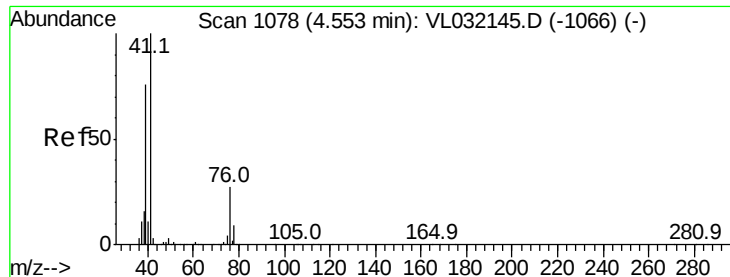
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



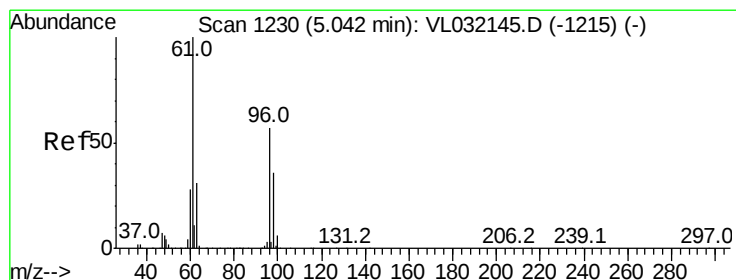
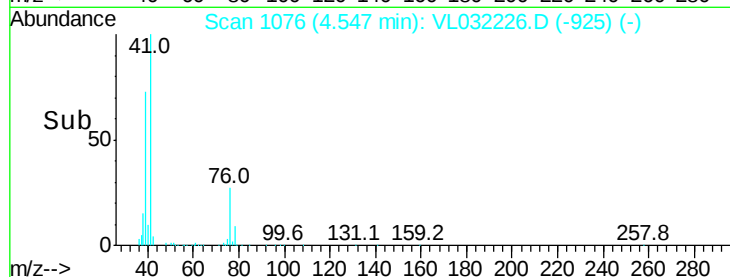
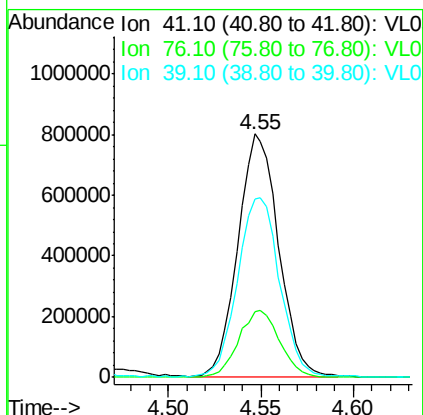
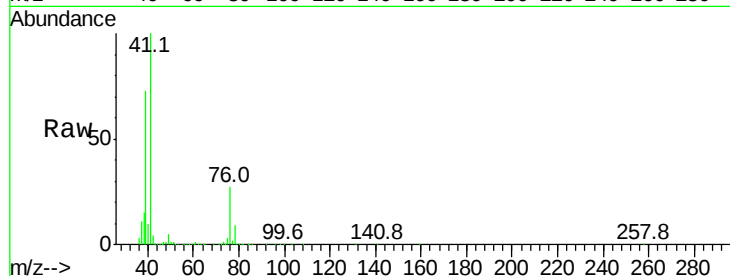


#21
 Allyl Chloride
 Concen: 9.293 ppbv
 RT: 4.55 min Scan# 1076
 Delta R.T. -0.02 min
 Lab File: VL032226.D
 Acq: 6 Jul 2018 9:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 41 Resp: 1212965

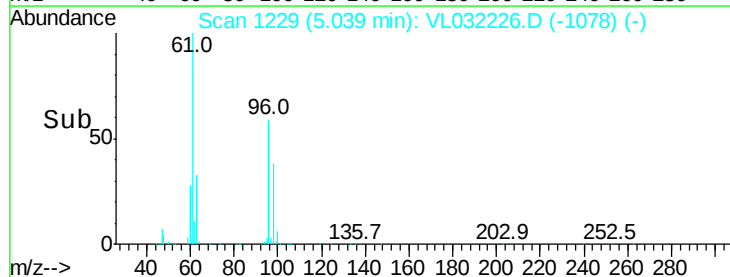
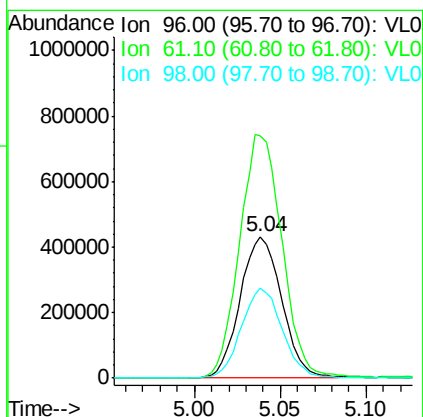
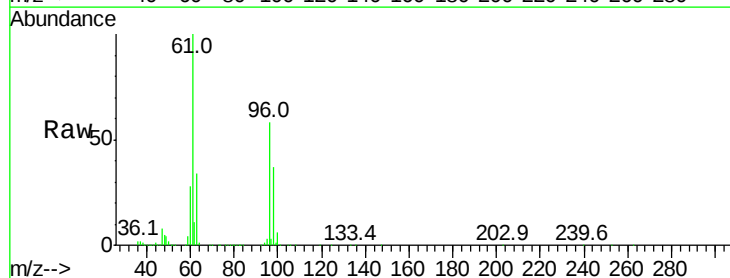
Ion	Ratio	Lower	Upper
41	100		
76	28.1	22.5	33.7
39	77.1	60.5	90.7

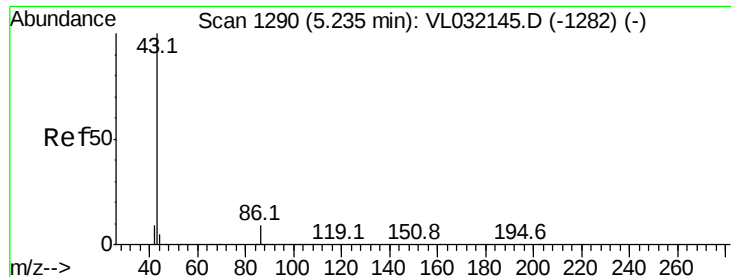


#22
 trans-1,2-Dichloroethene
 Concen: 9.361 ppbv
 RT: 5.04 min Scan# 1229
 Delta R.T. -0.02 min
 Lab File: VL032226.D
 Acq: 6 Jul 2018 9:34

Tgt Ion: 96 Resp: 726063

Ion	Ratio	Lower	Upper
96	100		
61	171.2	135.2	202.8
98	63.4	49.7	74.5





#23

Vinyl Acetate

Concen: 10.065 ppbv

RT: 5.23 min Scan# 1289

Delta R.T. -0.02 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 43 Resp: 3488718

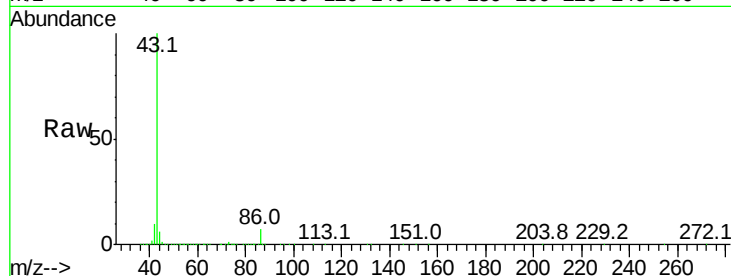
Ion	Ratio	Lower	Upper
43	100		
86	7.3	6.2	9.4
42	9.6	6.9	10.3
44	5.5	3.8	5.8

43 100

86 7.3 6.2 9.4

42 9.6 6.9 10.3

44 5.5 3.8 5.8

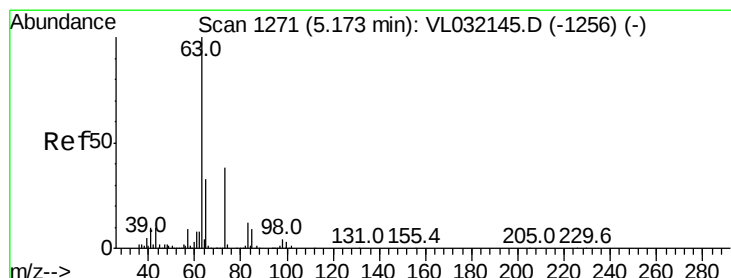
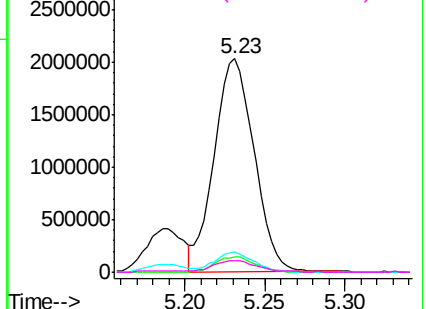
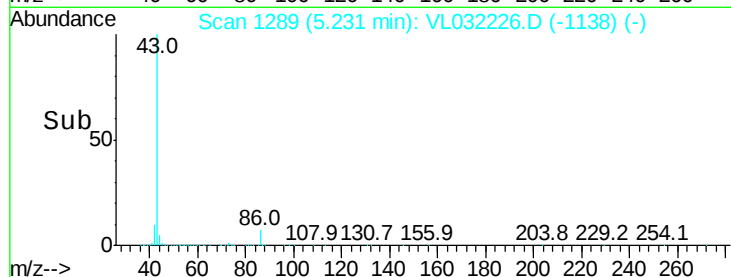


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 10.604 ppbv

RT: 5.17 min Scan# 1269

Delta R.T. -0.02 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

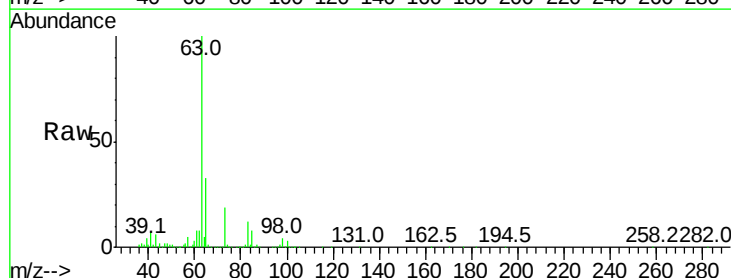
Tgt Ion: 63 Resp: 2354738

Ion	Ratio	Lower	Upper
63	100		
98	4.2	2.4	7.2
100	2.7	1.7	5.0

63 100

98 4.2 2.4 7.2

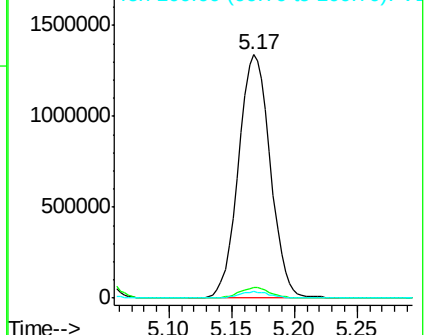
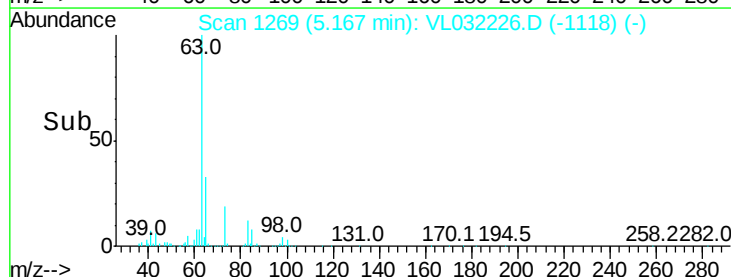
100 2.7 1.7 5.0

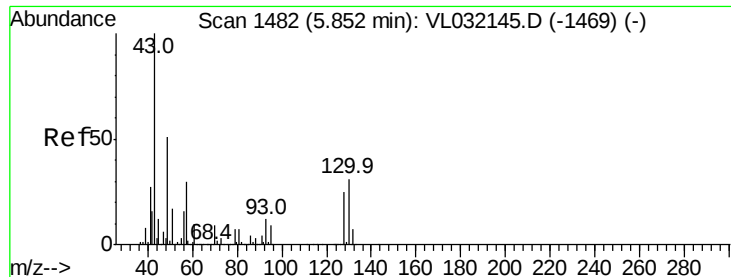


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



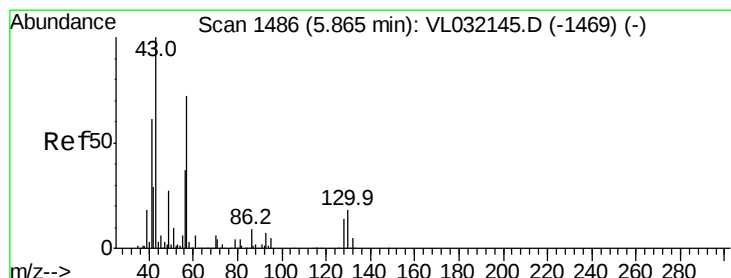
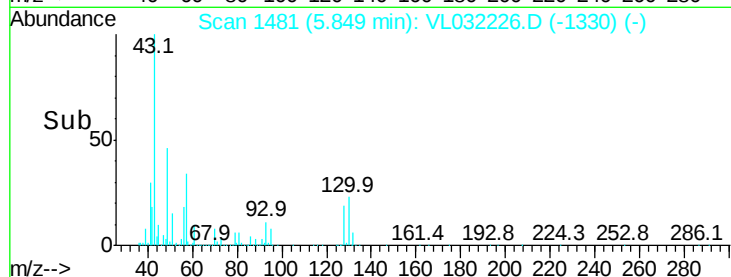
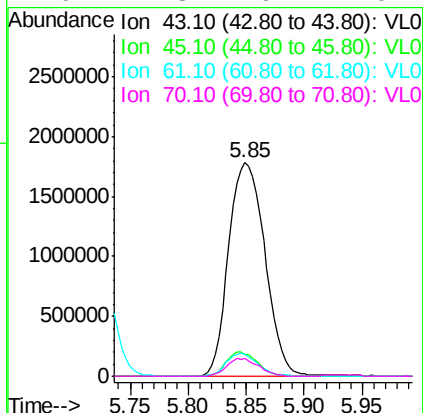
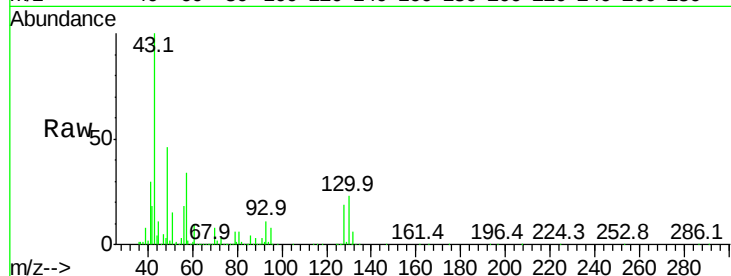


#25
Ethyl Acetate
Concen: 9.832 ppbv
RT: 5.85 min Scan# 1481
Delta R.T. -0.02 min
Lab File: VL032226.D
Acq: 6 Jul 2018 9:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 43 Resp: 3888402

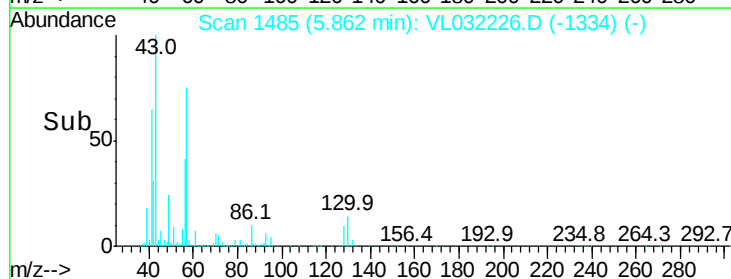
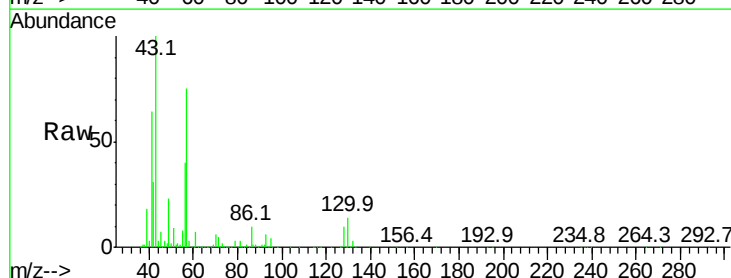
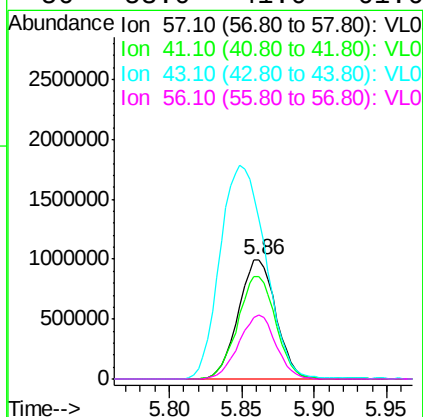
Ion	Ratio	Lower	Upper
43	100		
45	9.8	7.8	11.8
61	9.1	7.4	11.0
70	7.3	6.1	9.1

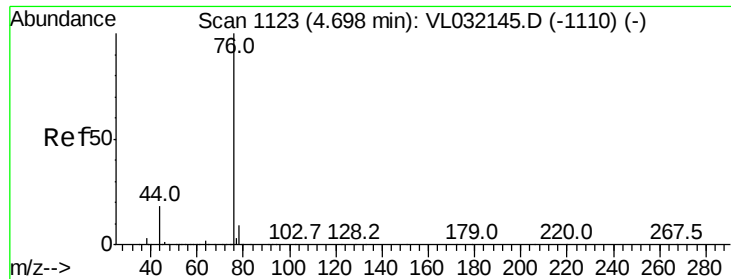


#26
Hexane
Concen: 9.842 ppbv
RT: 5.86 min Scan# 1485
Delta R.T. -0.02 min
Lab File: VL032226.D
Acq: 6 Jul 2018 9:34

Tgt Ion: 57 Resp: 1792422

Ion	Ratio	Lower	Upper
57	100		
41	87.3	68.6	103.0
43	217.1	168.6	252.8
56	53.0	41.0	61.6





#27

Carbon Disulfide

Concen: 9.668 ppbv

RT: 4.69 min Scan# 1121

Delta R.T. -0.02 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

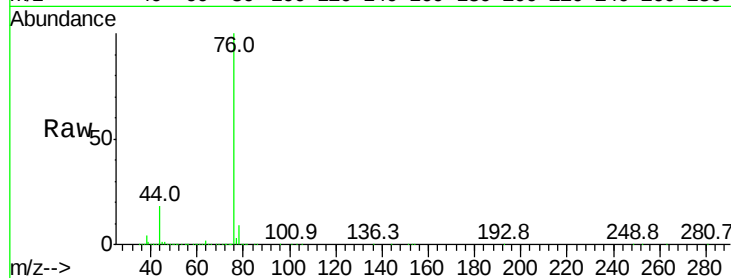
Tgt Ion: 76 Resp: 1750226

Ion Ratio Lower Upper

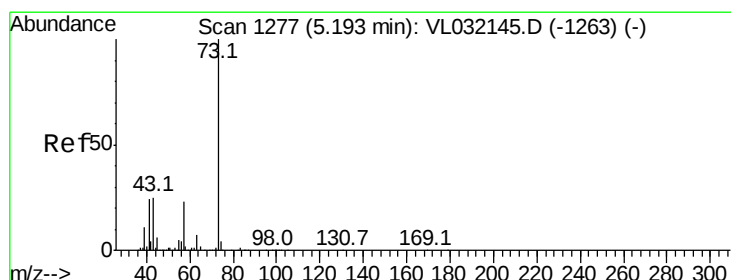
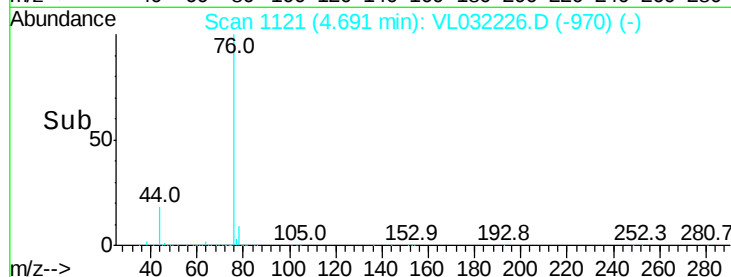
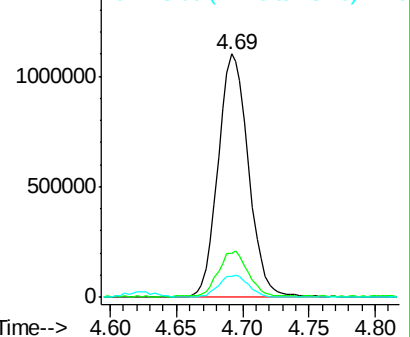
76 100

44 19.0 15.1 22.7

78 9.2 7.2 10.8



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



#28

Methyl tert-Butyl Ether

Concen: 9.548 ppbv

RT: 5.19 min Scan# 1275

Delta R.T. -0.02 min

Lab File: VL032226.D

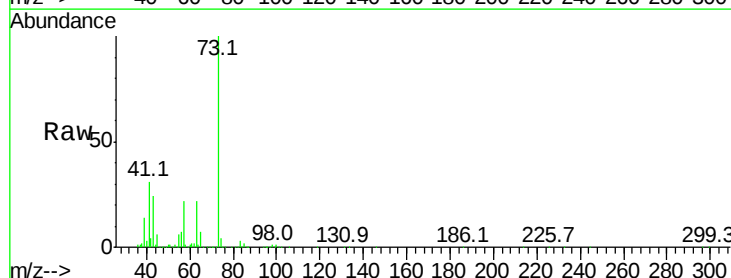
Acq: 6 Jul 2018 9:34

Tgt Ion: 73 Resp: 3073132

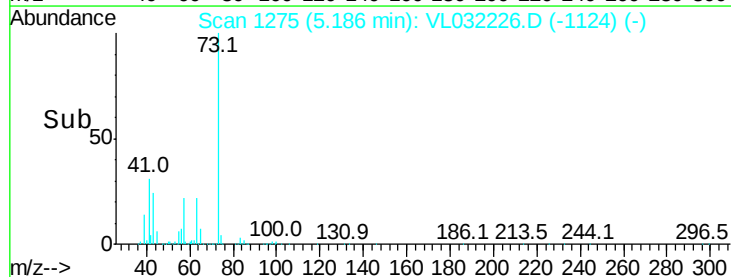
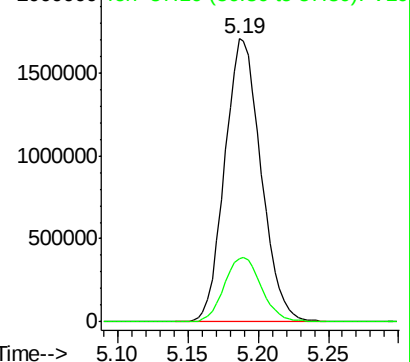
Ion Ratio Lower Upper

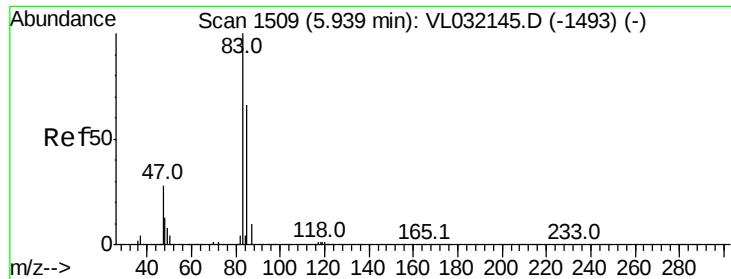
73 100

57 23.5 18.6 27.8



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





#29

Chloroform

Concen: 10.341 ppbv

RT: 5.93 min Scan# 1507

Delta R.T. -0.02 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Instrument :

MSVOA_L

ClientSampleId :

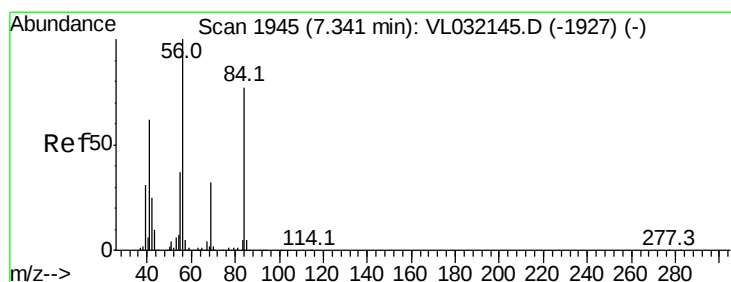
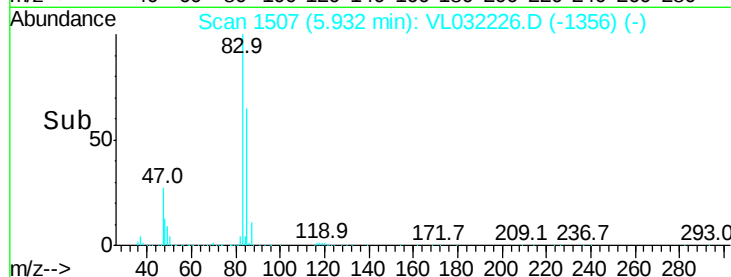
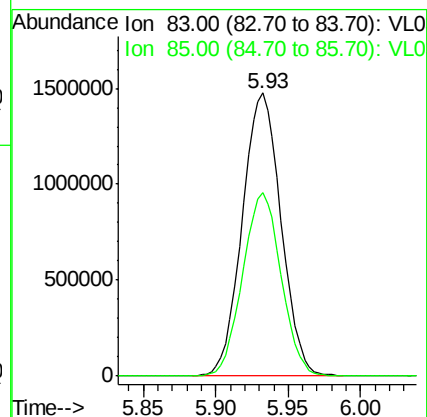
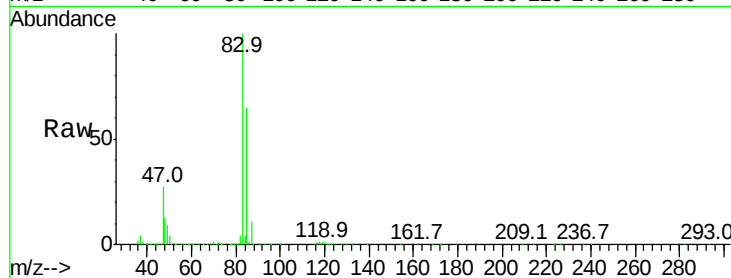
VSTDCCC010EC

Tgt Ion: 83 Resp: 2741352

Ion Ratio Lower Upper

83 100

85 64.8 51.6 77.4



#30

Cyclohexane

Concen: 10.559 ppbv

RT: 7.34 min Scan# 1944

Delta R.T. -0.02 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

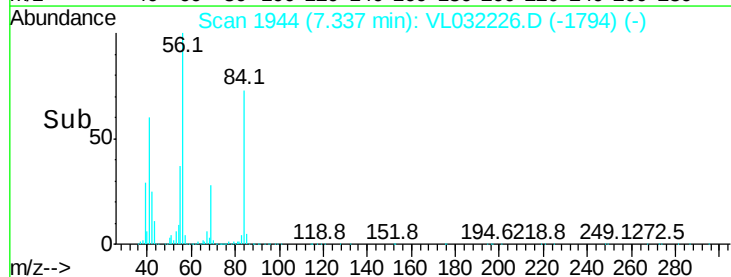
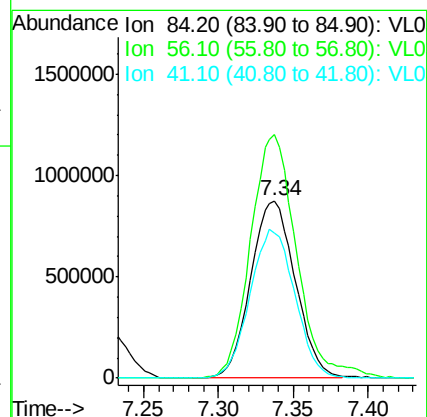
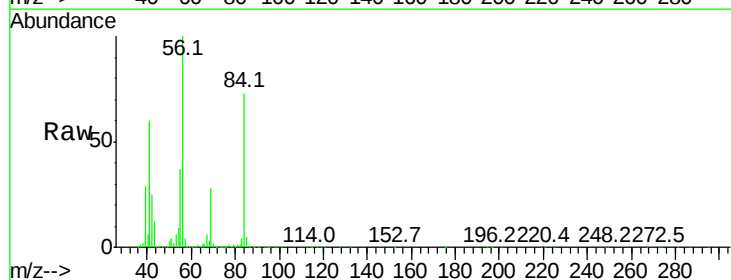
Tgt Ion: 84 Resp: 1812436

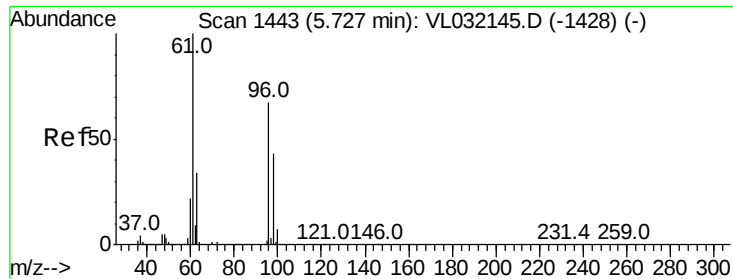
Ion Ratio Lower Upper

84 100

56 142.2 109.1 163.7

41 84.3 64.6 96.8





#31

cis-1,2-Dichloroethene

Concen: 10.531 ppbv

RT: 5.72 min Scan# 1441

Delta R.T. -0.02 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

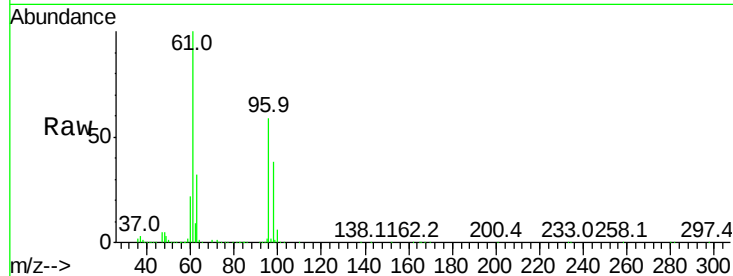
Tgt Ion: 61 Resp: 1916653

Ion Ratio Lower Upper

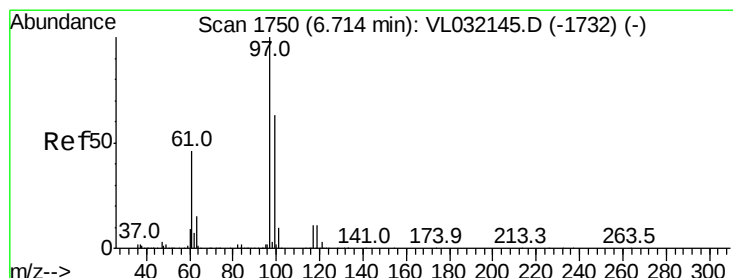
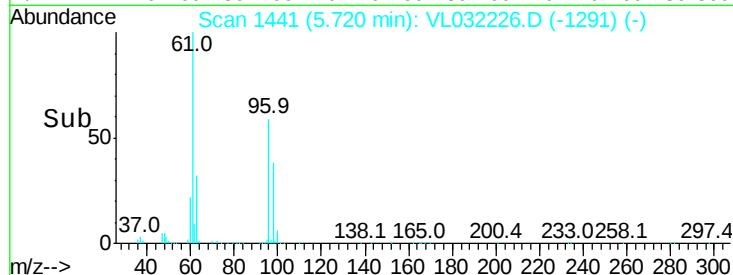
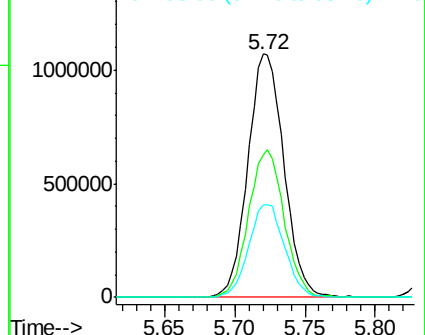
61 100

96 58.5 54.2 81.4

98 37.9 34.6 52.0



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: 10.894 ppbv

RT: 6.71 min Scan# 1748

Delta R.T. -0.02 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

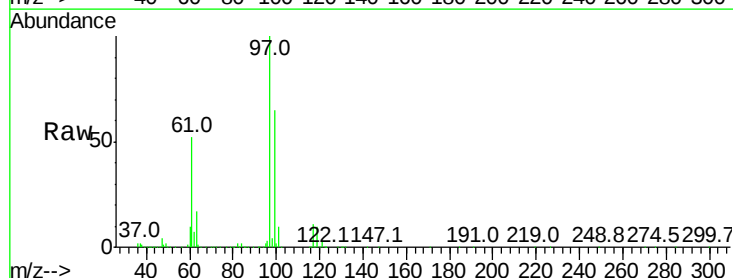
Tgt Ion: 97 Resp: 3027169

Ion Ratio Lower Upper

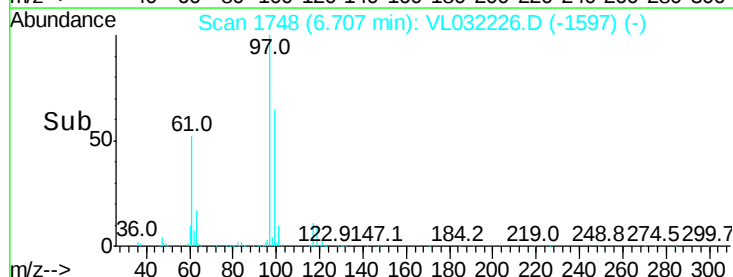
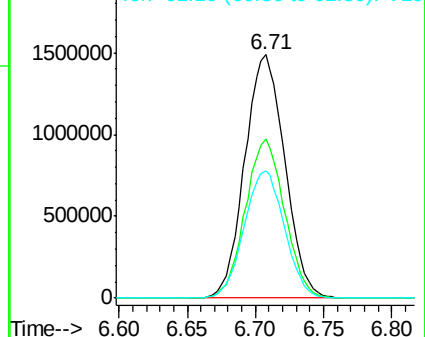
97 100

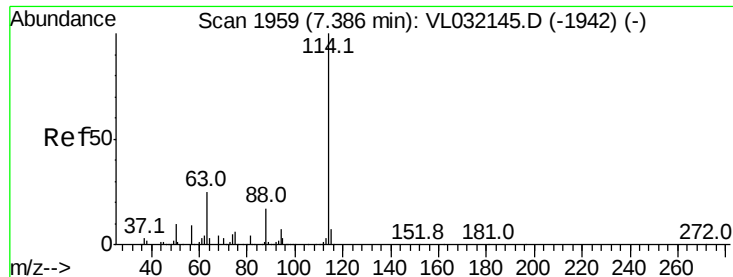
99 64.2 51.3 76.9

61 52.8 38.4 57.6



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

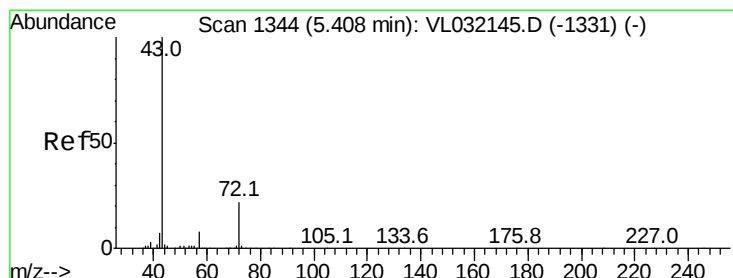
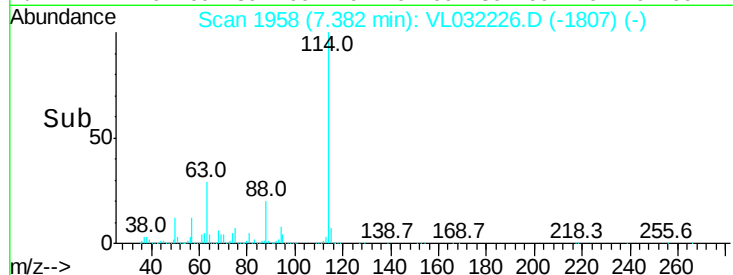
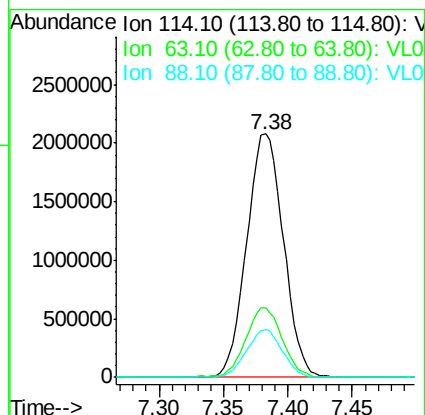
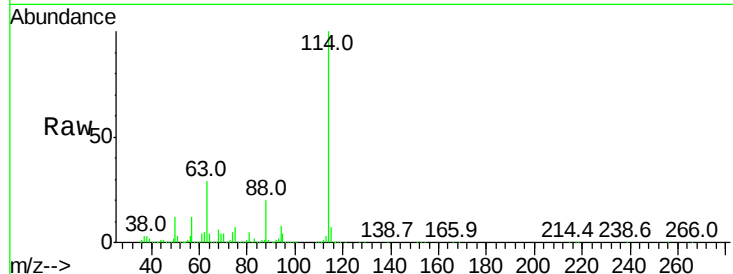




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.38 min Scan# 1958
 Delta R.T. -0.02 min
 Lab File: VL032226.D
 Acq: 6 Jul 2018 9:34

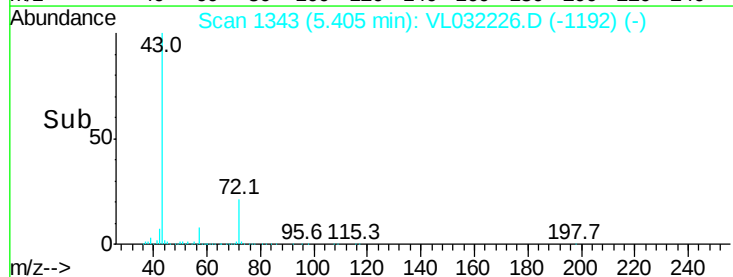
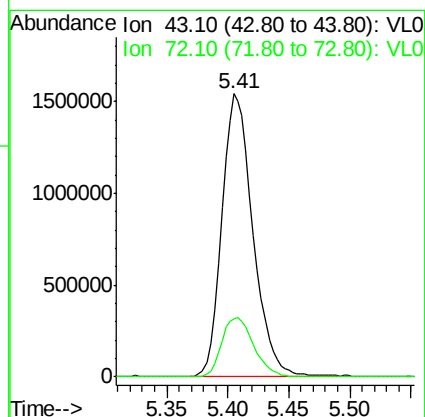
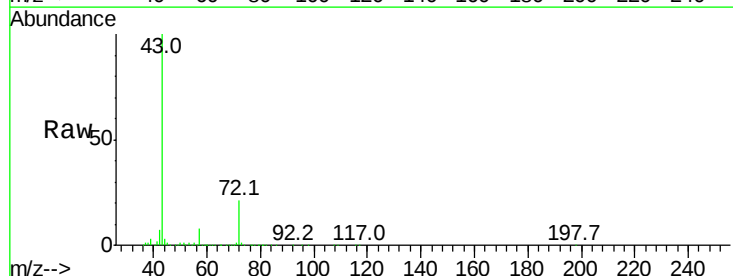
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

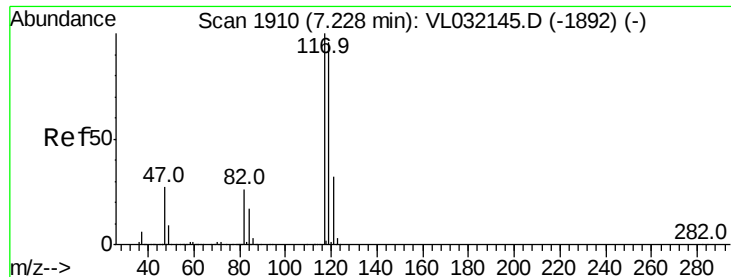
Tgt Ion:114 Resp: 4134837
 Ion Ratio Lower Upper
 114 100
 63 28.6 19.1 28.7
 88 19.2 13.9 20.9



#34
 2-Butanone
 Concen: 10.448 ppbv
 RT: 5.41 min Scan# 1343
 Delta R.T. -0.02 min
 Lab File: VL032226.D
 Acq: 6 Jul 2018 9:34

Tgt Ion: 43 Resp: 2742045
 Ion Ratio Lower Upper
 43 100
 72 22.1 18.4 27.6





#35

Carbon Tetrachloride

Concen: 10.688 ppbv

RT: 7.22 min Scan# 1908

Delta R.T. -0.02 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

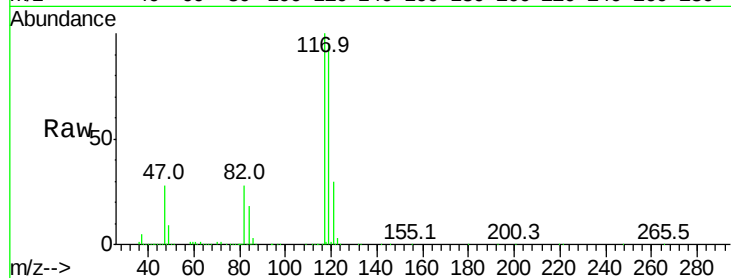
Tgt Ion:117 Resp: 3025168

Ion Ratio Lower Upper

117 100

119 94.6 74.8 112.2

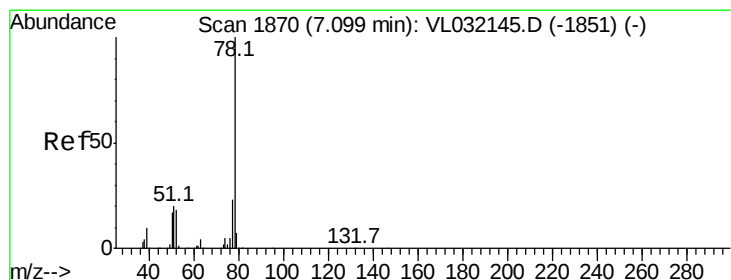
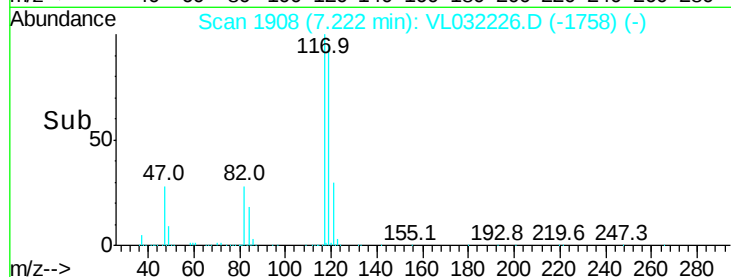
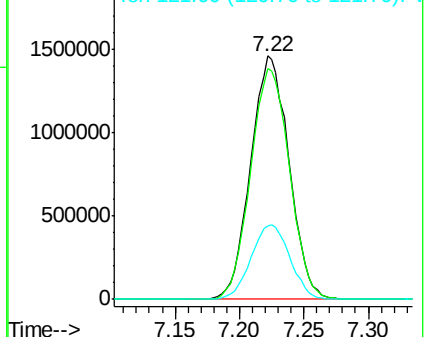
121 30.0 24.0 36.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 11.022 ppbv

RT: 7.10 min Scan# 1869

Delta R.T. -0.02 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

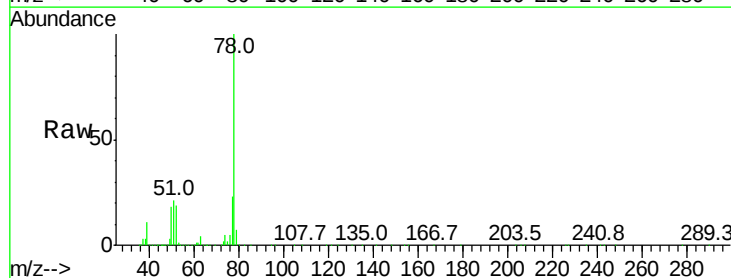
Tgt Ion: 78 Resp: 4411135

Ion Ratio Lower Upper

78 100

77 22.8 17.7 26.5

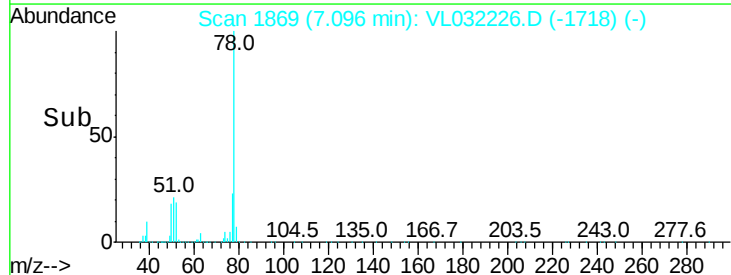
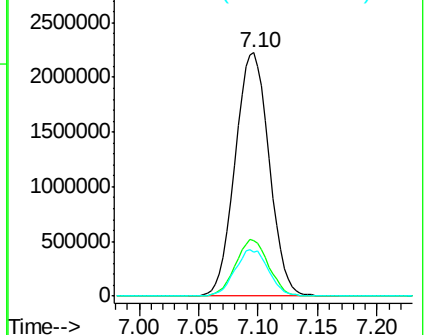
50 18.3 14.0 21.0

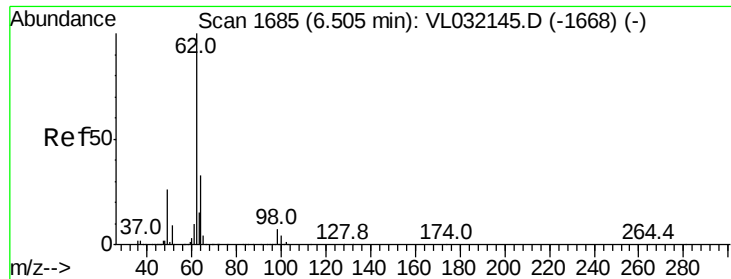


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

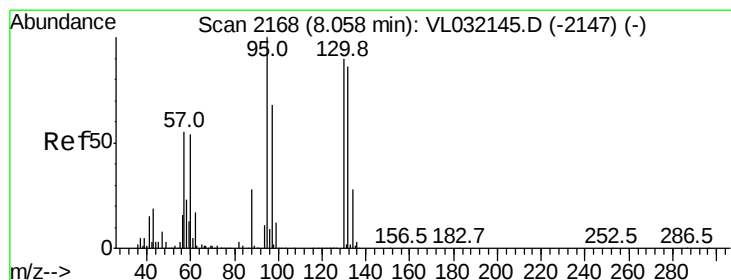
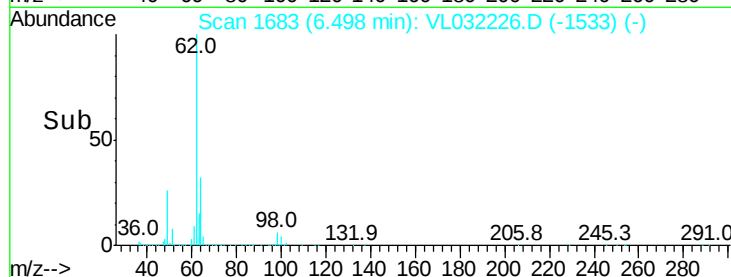
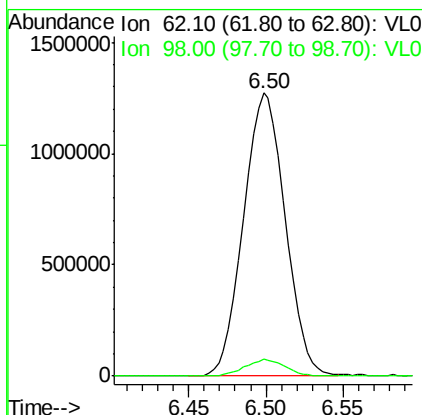
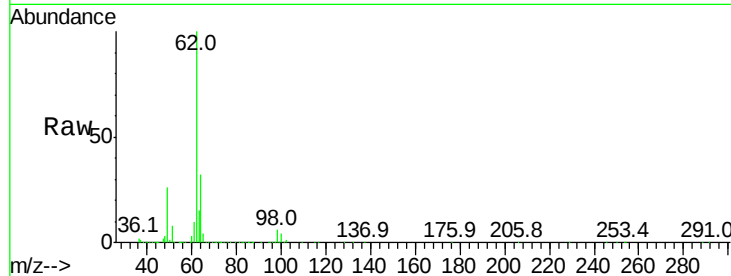




#37
 1,2-Dichloroethane
 Concen: 11.972 ppbv
 RT: 6.50 min Scan# 1683
 Delta R.T. -0.02 min
 Lab File: VL032226.D
 Acq: 6 Jul 2018 9:34

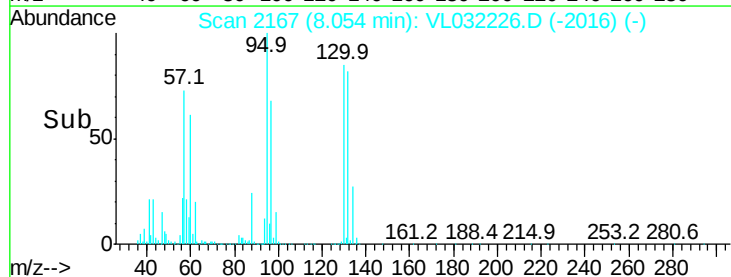
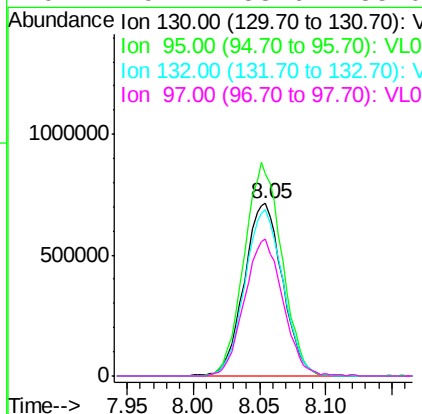
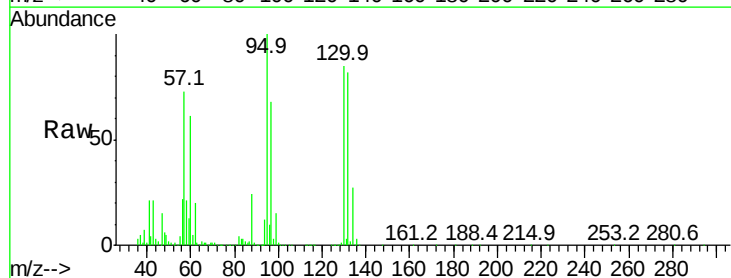
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

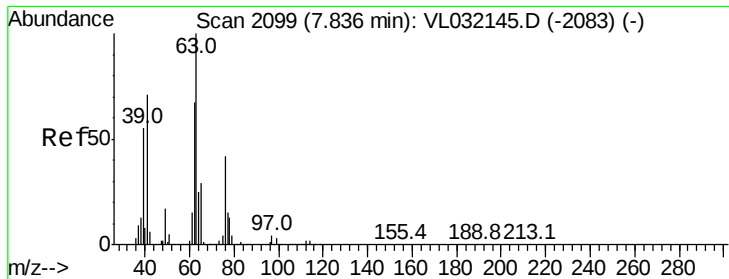
Tgt Ion: 62 Resp: 2387071
 Ion Ratio Lower Upper
 62 100
 98 5.7 5.8 8.6#



#38
 Trichloroethene
 Concen: 9.116 ppbv
 RT: 8.05 min Scan# 2167
 Delta R.T. -0.02 min
 Lab File: VL032226.D
 Acq: 6 Jul 2018 9:34

Tgt Ion: 130 Resp: 1425209
 Ion Ratio Lower Upper
 130 100
 95 117.4 88.1 132.1
 132 96.8 74.6 112.0
 97 79.7 58.6 88.0

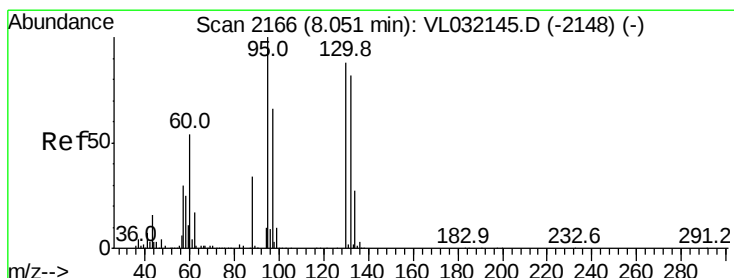
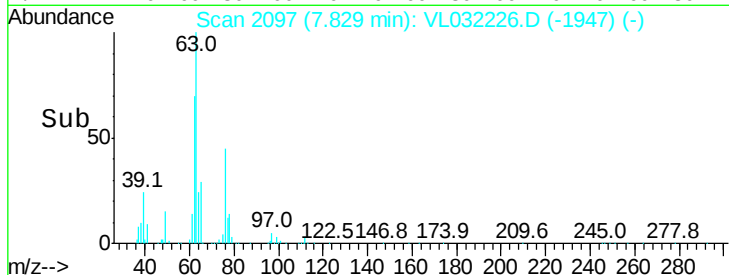
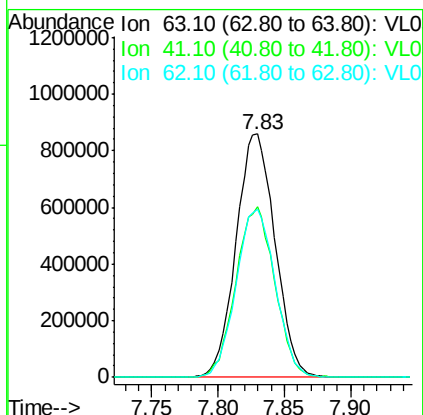
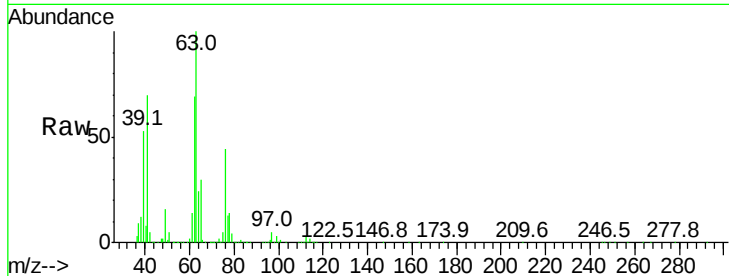




#39
 1,2-Dichloropropane
 Concen: 11.136 ppbv
 RT: 7.83 min Scan# 2097
 Delta R.T. -0.02 min
 Lab File: VL032226.D
 Acq: 6 Jul 2018 9:34

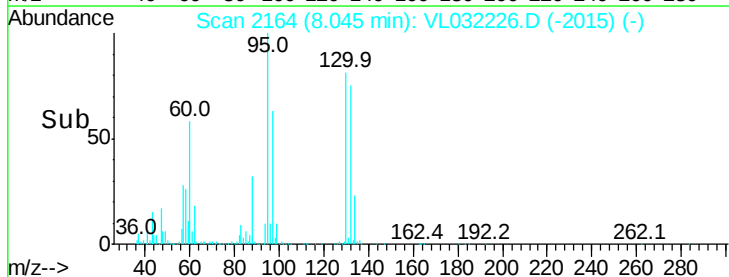
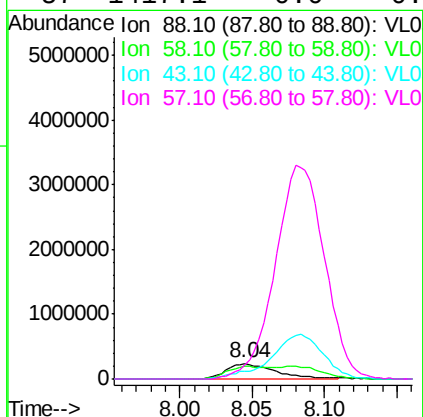
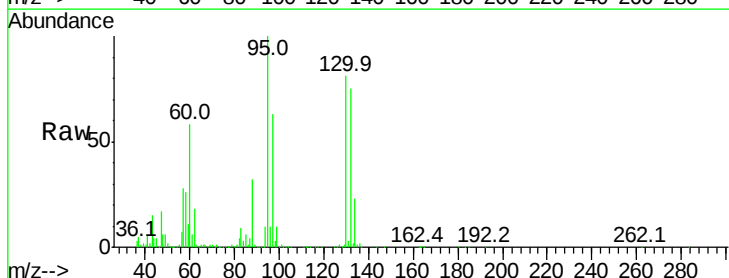
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

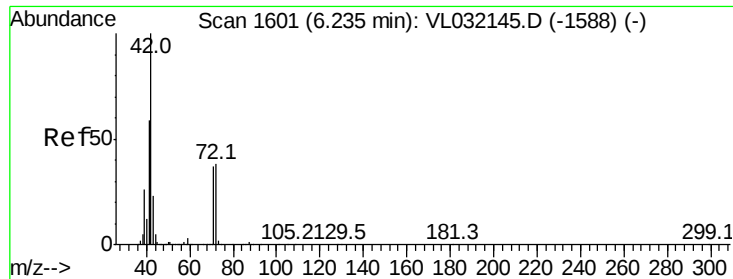
Tgt Ion: 63 Resp: 1757731
 Ion Ratio Lower Upper
 63 100
 41 69.9 53.3 79.9
 62 68.8 54.8 82.2



#40
 1,4-Dioxane
 Concen: 8.901 ppbv
 RT: 8.04 min Scan# 2164
 Delta R.T. -0.02 min
 Lab File: VL032226.D
 Acq: 6 Jul 2018 9:34

Tgt Ion: 88 Resp: 550956
 Ion Ratio Lower Upper
 88 100
 58 149.8 47.4 71.0#
 43 312.6 0.0 0.0#
 57 1417.1 0.0 0.0#

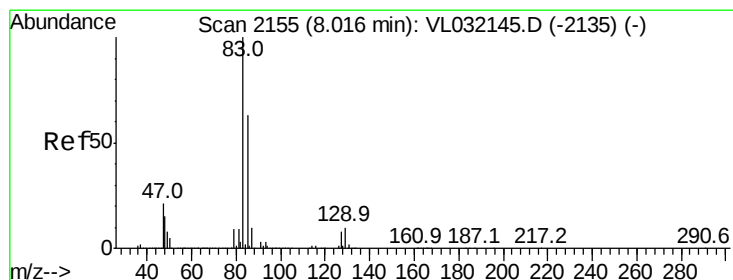
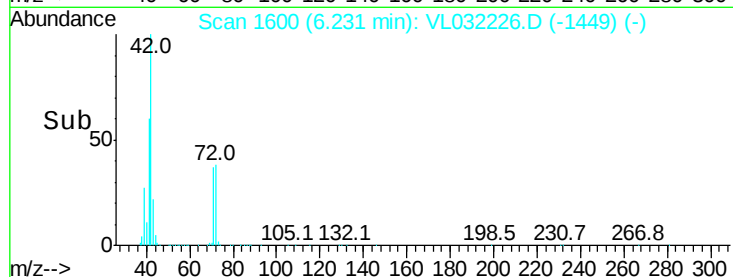
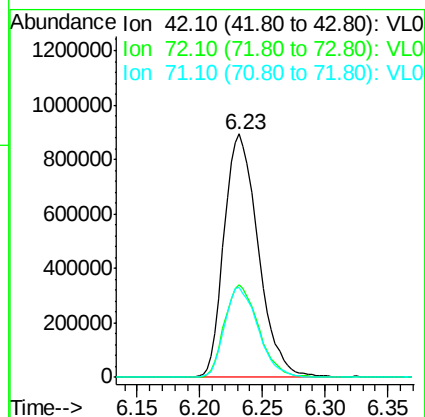
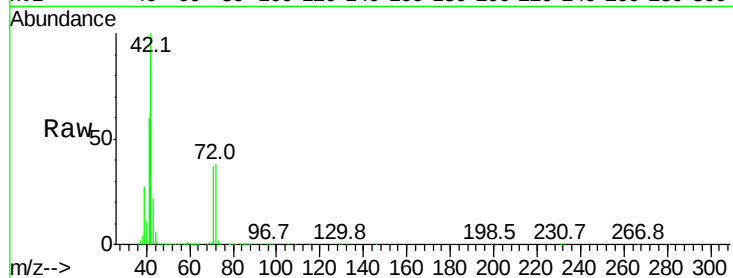




#41
Tetrahydrofuran
Concen: 10.702 ppbv
RT: 6.23 min Scan# 1600
Delta R.T. -0.02 min
Lab File: VL032226.D
Acq: 6 Jul 2018 9:34

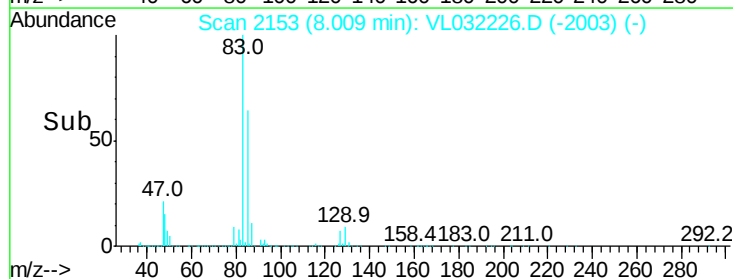
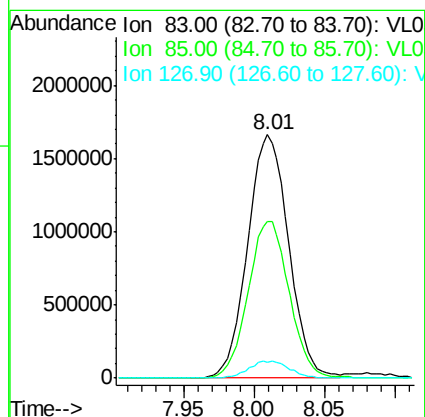
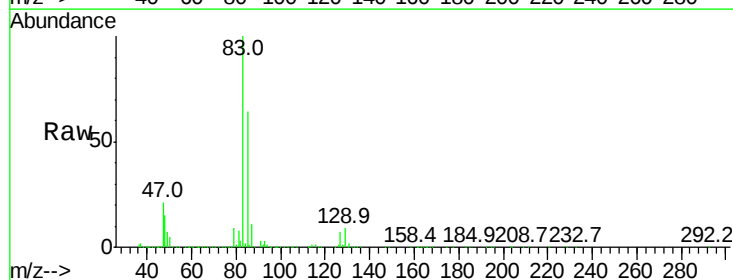
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

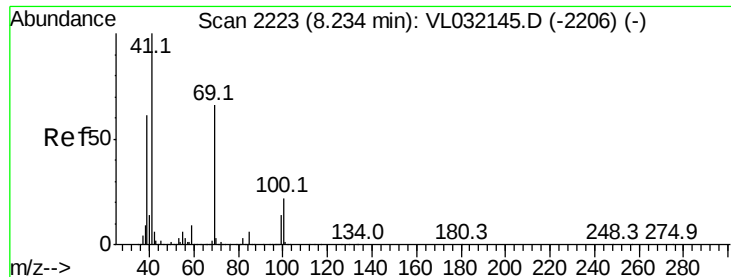
Tgt Ion: 42 Resp: 1683658
Ion Ratio Lower Upper
42 100
72 38.0 31.1 46.7
71 36.6 29.5 44.3



#42
Bromodichloromethane
Concen: 10.823 ppbv
RT: 8.01 min Scan# 2153
Delta R.T. -0.02 min
Lab File: VL032226.D
Acq: 6 Jul 2018 9:34

Tgt Ion: 83 Resp: 3382477
Ion Ratio Lower Upper
83 100
85 64.2 52.6 79.0
127 6.7 6.5 9.7

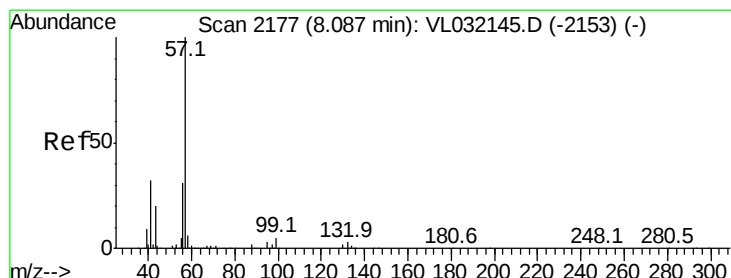
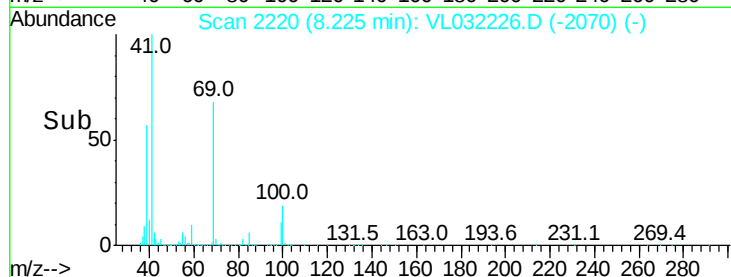
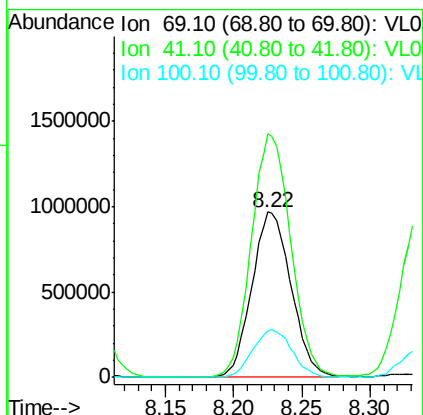
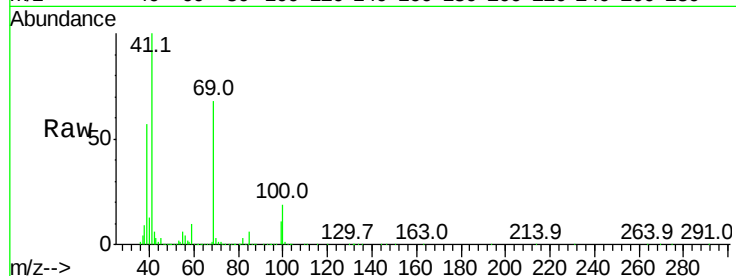




#43
Methyl Methacrylate
Concen: 11.661 ppbv
RT: 8.22 min Scan# 2220
Delta R.T. -0.02 min
Lab File: VL032226.D
Acq: 6 Jul 2018 9:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 69 Resp: 1934470
Ion Ratio Lower Upper
69 100
41 147.7 118.2 177.4
100 29.1 27.4 41.2



#44
2,2,4-Trimethylpentane
Concen: 11.147 ppbv
RT: 8.08 min Scan# 2175
Delta R.T. -0.02 min
Lab File: VL032226.D
Acq: 6 Jul 2018 9:34

Tgt Ion: 57 Resp: 7805791
Ion Ratio Lower Upper
57 100
41 31.0 24.3 36.5
56 31.9 25.1 37.7

