

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL102418\
 Data File : VL032695.D
 Acq On : 24 Oct 2018 19:54
 Operator : SY/AP
 Sample : J5164-13 0.1 LOD
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT4-2018 0.1 LOD

Quant Time: Oct 25 05:27:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 25 05:15:43 2018
 QLast Update : Thu Oct 25 05:15:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1445484	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	3389559	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3320759	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2511780	10.16	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.60%

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.09	85	23790	0.162	ppbv 99
3) Chlorodifluoromethane	3.02	51	15043	0.133	ppbv 98
4) Chloromethane	3.18	50	8627	0.137	ppbv 96
5) Vinyl Chloride	3.31	62	7727	0.113	ppbv 91
6) Bromomethane	3.53	94	3345	0.078	ppbv # 69
7) Chloroethane	3.61	64	1770	0.070	ppbv # 84
8) Dichlorotetrafluoroethane	3.23	85	12933	0.083	ppbv # 20
9) Propene	3.04	41	5758	0.124	ppbv 97
10) Heptane	8.25	43	7097	0.040	ppbv # 39
11) Trichlorofluoromethane	4.02	101	22625	0.118	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.56	101	8630	0.054	ppbv # 17
13) Ethanol	3.67	45	326	0.025	ppbv # 36
14) Bromoethene	3.80	108	6185	0.114	ppbv 92
15) Acetone	3.94	43	29711	0.223	ppbv 97
16) 1,3-Butadiene	3.37	39	5627	0.115	ppbv # 78
17) tert-Butyl alcohol	4.37	59	365	0.009	ppbv # 100
18) 1,1-Dichloroethene	4.36	96	3252	0.046	ppbv 81
19) Isopropyl Alcohol	4.07	45	4712	0.050	ppbv # 93
20) Methylene Chloride	4.42	84	9501	0.140	ppbv # 87
21) Allyl Chloride	4.49	41	12209	0.111	ppbv # 84
22) trans-1,2-Dichloroethene	4.96	96	1066	0.015	ppbv # 21
23) Vinyl Acetate	5.15	43	3125	0.013	ppbv # 45
24) 1,1-Dichloroethane	5.10	63	13286	0.072	ppbv # 93
25) Ethyl Acetate	5.80	43	34496	0.112	ppbv # 95
26) Hexane	5.78	57	2856	0.020	ppbv # 1
27) Carbon Disulfide	4.63	76	16053	0.091	ppbv # 58
28) Methyl tert-Butyl Ether	5.12	73	176	0.001	ppbv # 53
29) Chloroform	5.86	83	30831	0.133	ppbv # 82
30) Cyclohexane	7.25	84	1380	0.012	ppbv # 1
31) cis-1,2-Dichloroethene	5.64	61	5165	0.038	ppbv 91
32) 1,1,1-Trichloroethane	6.63	97	19700	0.083	ppbv # 40
34) 2-Butanone	5.34	43	467	0.003	ppbv # 52
35) Carbon Tetrachloride	7.15	117	18304	0.076	ppbv # 95
36) Benzene	7.01	78	18280	0.066	ppbv 95
37) 1,2-Dichloroethane	6.43	62	12887	0.076	ppbv # 95
38) Trichloroethene	7.99	130	685	0.007	ppbv 97
39) 1,2-Dichloropropane	7.30	63	864229	8.131	ppbv # 26
40) 1,4-Dioxane	8.04	88	483	0.013	ppbv # 1
41) Tetrahydrofuran	6.17	42	145	0.001	ppbv # 35
42) Bromodichloromethane	7.93	83	13940	0.059	ppbv # 93
43) Methyl Methacrylate	8.15	69	1405	0.014	ppbv # 1

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 MDL-AIR-03-QT4-2018 0.1 LOD

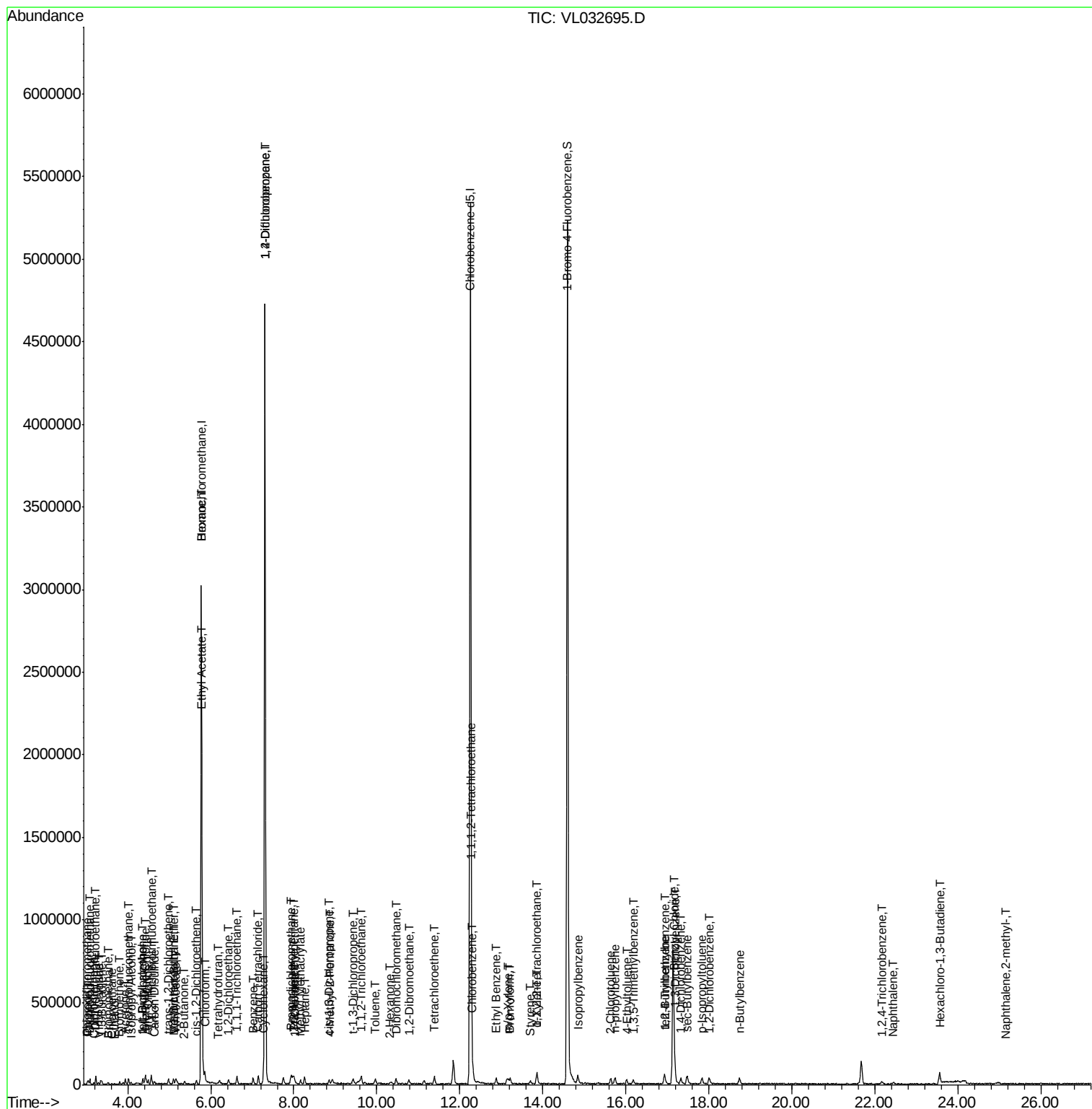
Quant Time: Oct 25 05:27:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 25 05:15:43 2018
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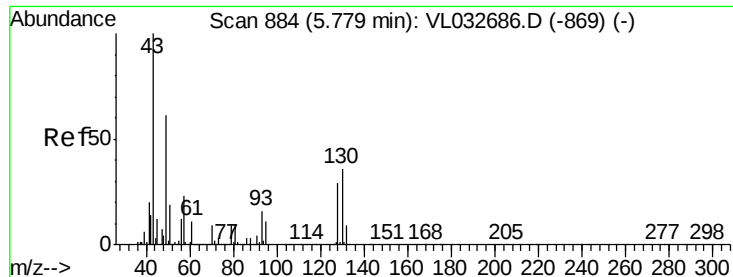
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.01	57	28024	0.060	ppbv #	63
45) t-1,3-Dichloropropene	9.43	75	2904	0.022	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	3060	0.020	ppbv	98
47) 1,1,2-Trichloroethane	9.63	97	4462	0.036	ppbv #	42
48) Dibromochloromethane	10.47	129	7842	0.037	ppbv #	1
49) Bromoform	13.21	173	14341	0.087	ppbv #	90
50) 4-Methyl-2-Pentanone	8.88	43	191	0.001	ppbv #	38
51) 2-Hexanone	10.31	43	1557	0.008	ppbv #	28
52) Tetrachloroethene	11.38	164	6243	0.065	ppbv #	82
53) Toluene	9.96	91	8229	0.026	ppbv #	20
54) 1,2-Dibromoethane	10.77	107	16092	0.094	ppbv	91
56) 1,1,1,2-Tetrachloroethane	12.29	131	4493	0.031	ppbv #	1
57) Chlorobenzene	12.31	112	19264	0.079	ppbv #	92
58) Ethyl Benzene	12.88	91	19630	0.051	ppbv	97
59) m/p-Xylene	13.16	91	4671	0.014	ppbv #	31
60) o-Xylene	13.86	91	12549	0.038	ppbv	67
61) Styrene	13.70	104	3293	0.015	ppbv #	1
62) Isopropylbenzene	14.84	105	19176	0.041	ppbv #	58
63) 1,1,2,2-Tetrachloroethane	13.85	83	5983	0.023	ppbv #	1
64) n-propylbenzene	15.74	120	2355	0.020	ppbv #	1
65) tert-Butylbenzene	16.92	119	12069	0.030	ppbv #	17
66) Benzyl Chloride	17.17	91	6728	0.033	ppbv #	62
67) sec-Butylbenzene	17.47	105	20716	0.036	ppbv #	71
69) p-Isopropyltoluene	17.83	119	7420	0.016	ppbv #	1
70) n-Butylbenzene	18.73	91	10823	0.023	ppbv #	33
71) 2-Chlorotoluene	15.63	91	10910	0.033	ppbv #	42
72) 4-Ethyltoluene	16.01	105	18558	0.053	ppbv #	88
73) 1,3,5-Trimethylbenzene	16.17	105	5156	0.015	ppbv #	58
74) 1,2,4-Trimethylbenzene	16.94	105	12120	0.033	ppbv #	74
75) 1,3-Dichlorobenzene	17.19	146	13206	0.063	ppbv #	1
76) 1,4-Dichlorobenzene	17.33	146	2156	0.011	ppbv #	1
77) 1,2-Dichlorobenzene	18.00	146	7344	0.037	ppbv #	1
78) Hexachloro-1,3-Butadiene	23.55	225	3907	0.041	ppbv #	1
79) Naphthalene	22.43	128	1874	0.008	ppbv #	78
80) Naphthalene,2-methyl-	25.15	142	322	0.006	ppbv #	35
81) 1,2,4-Trichlorobenzene	22.16	180	1469	0.012	ppbv #	1

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 882

Delta R.T. -0.01 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT4-2018 0.1 LOD

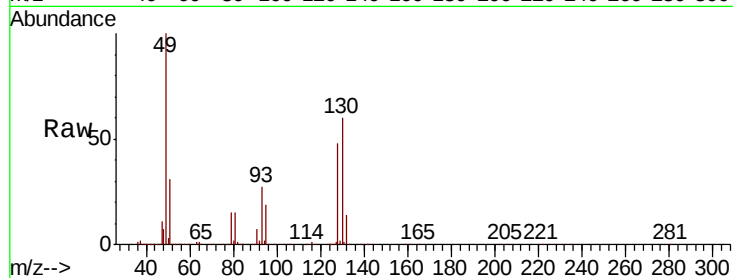
Tgt Ion: 49 Resp: 1445484

Ion Ratio Lower Upper

49 100

128 48.1 22.3 66.8

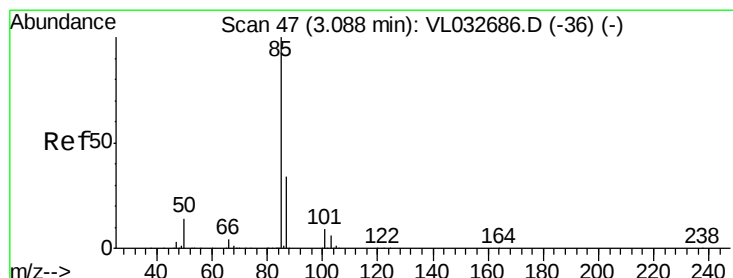
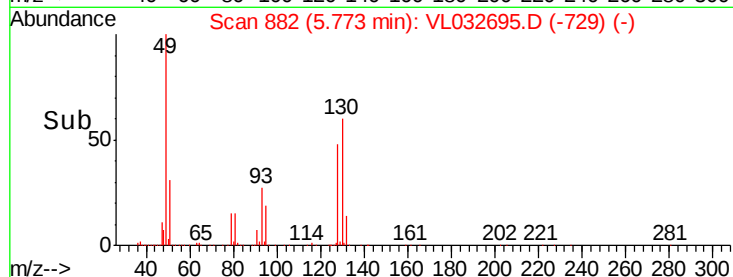
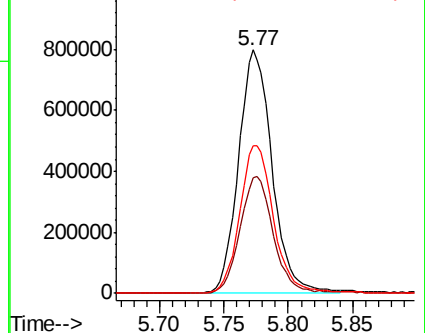
130 61.8 28.4 85.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.162 ppbv

RT: 3.09 min Scan# 47

Delta R.T. 0.00 min

Lab File: VL032695.D

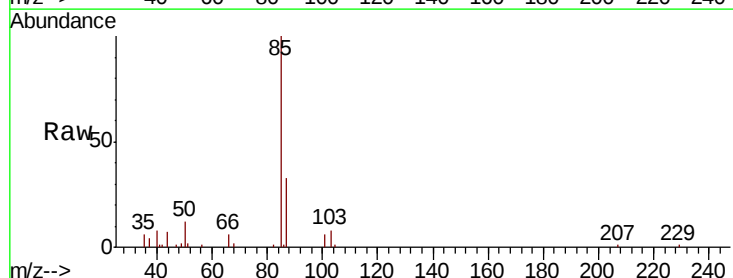
Acq: 24 Oct 2018 19:54

Tgt Ion: 85 Resp: 23790

Ion Ratio Lower Upper

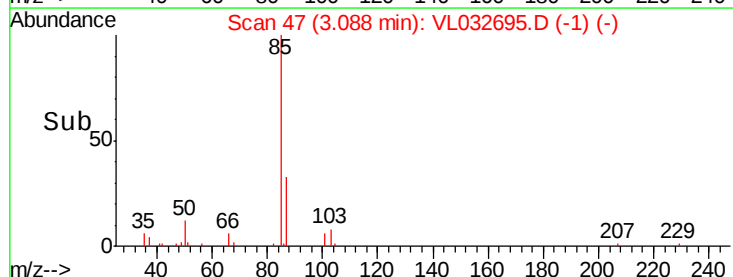
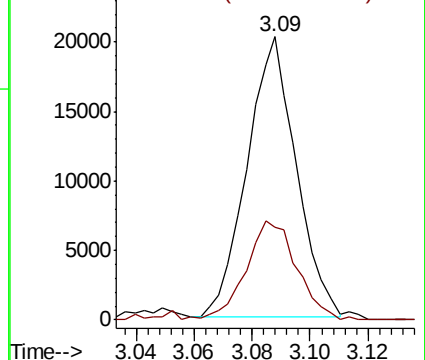
85 100

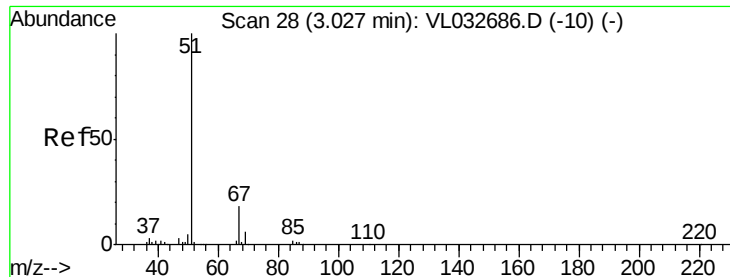
87 33.0 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

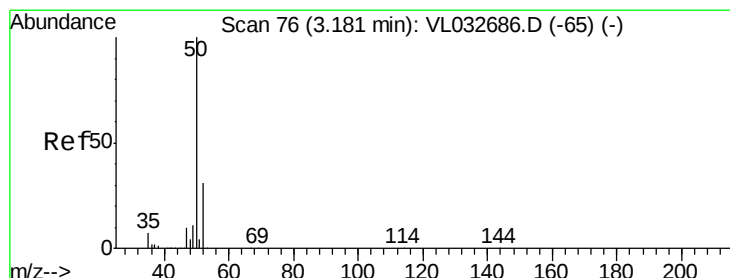
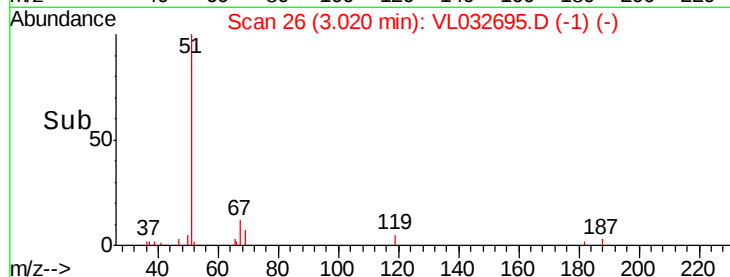
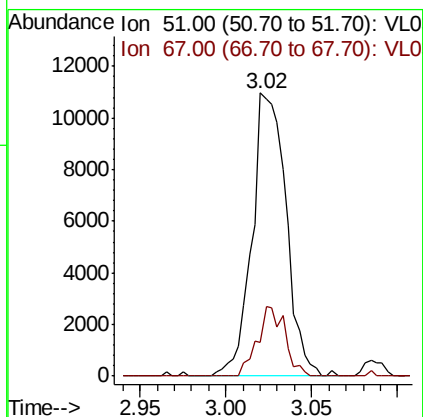
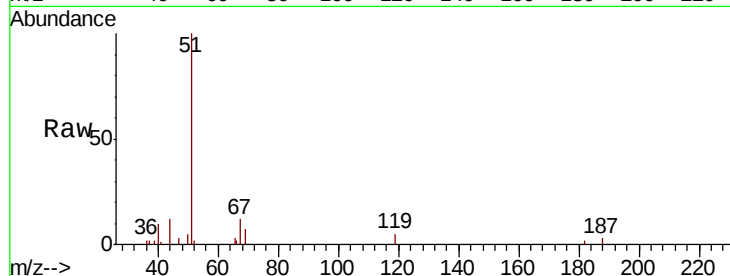




#3
 Chlorodifluoromethane
 Concen: 0.133 ppbv
 RT: 3.02 min Scan# 26
 Delta R.T. -0.00 min
 Lab File: VL032695.D
 Acq: 24 Oct 2018 19:54

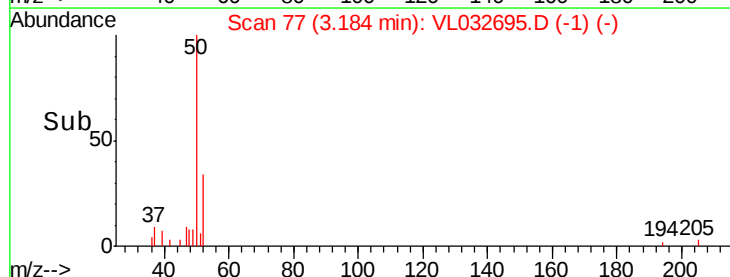
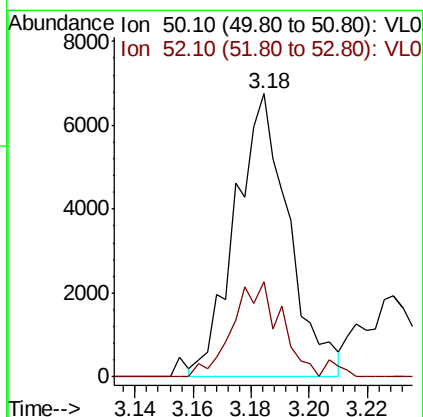
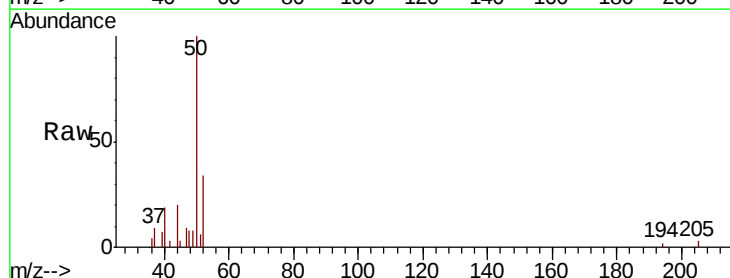
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT4-2018 0.1 LOD

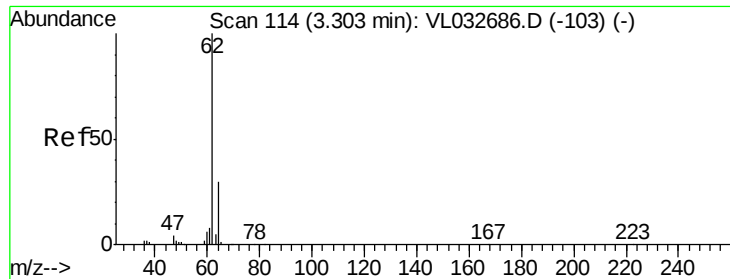
Tgt Ion: 51 Resp: 15043
 Ion Ratio Lower Upper
 51 100
 67 20.0 15.2 22.8



#4
 Chloromethane
 Concen: 0.137 ppbv
 RT: 3.18 min Scan# 77
 Delta R.T. 0.01 min
 Lab File: VL032695.D
 Acq: 24 Oct 2018 19:54

Tgt Ion: 50 Resp: 8627
 Ion Ratio Lower Upper
 50 100
 52 34.8 25.9 38.9





#5

Vinyl Chloride

Concen: 0.113 ppbv

RT: 3.31 min Scan# 115

Delta R.T. 0.01 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

Instrument :

MSVOA_L

ClientSampleId :

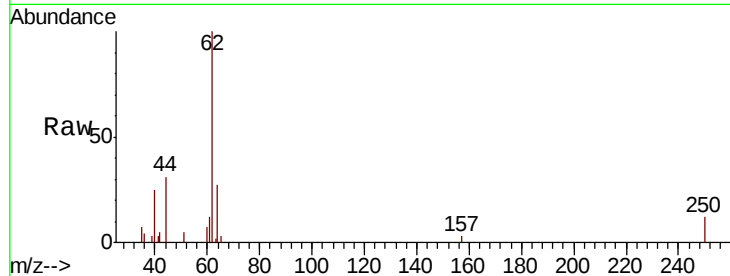
MDL-AIR-03-QT4-2018 0.1 LOD

Tgt Ion: 62 Resp: 7727

Ion Ratio Lower Upper

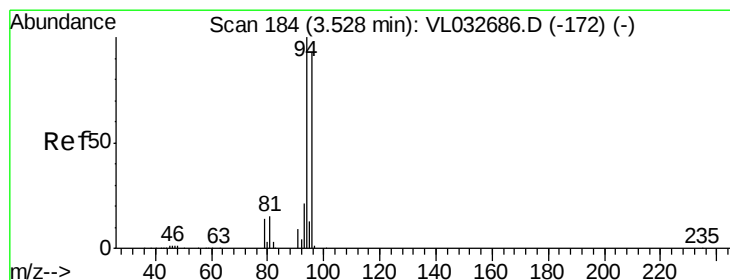
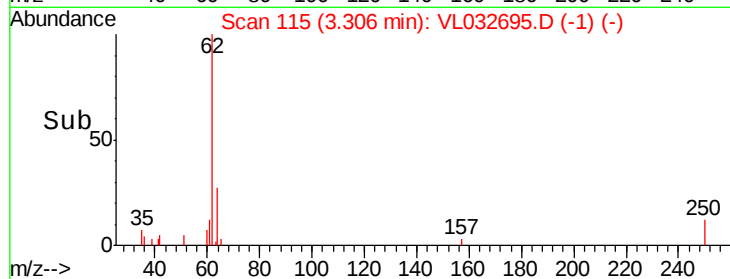
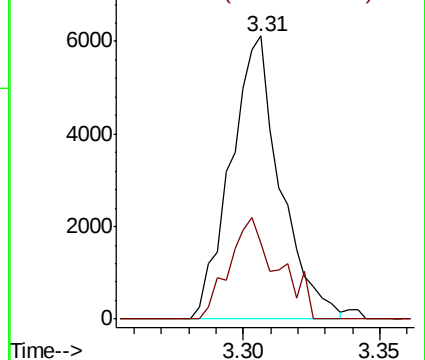
62 100

64 26.7 25.5 38.3



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.078 ppbv

RT: 3.53 min Scan# 184

Delta R.T. 0.01 min

Lab File: VL032695.D

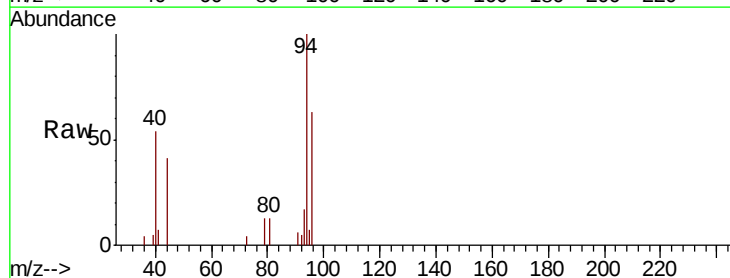
Acq: 24 Oct 2018 19:54

Tgt Ion: 94 Resp: 3345

Ion Ratio Lower Upper

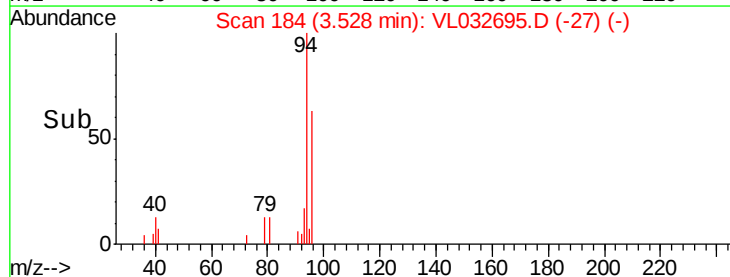
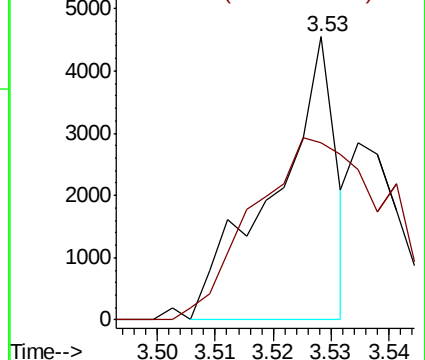
94 100

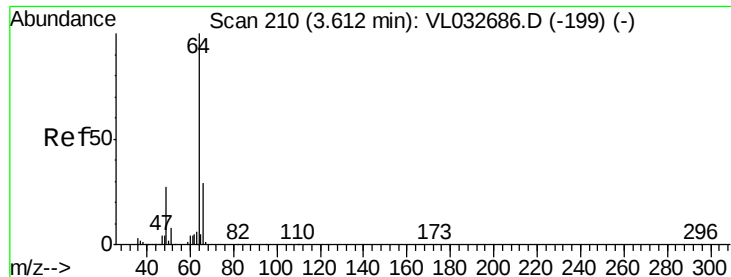
96 58.4 69.8 104.8#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.070 ppbv

RT: 3.61 min Scan# 209

Delta R.T. -0.00 min

Lab File: VL032695.D

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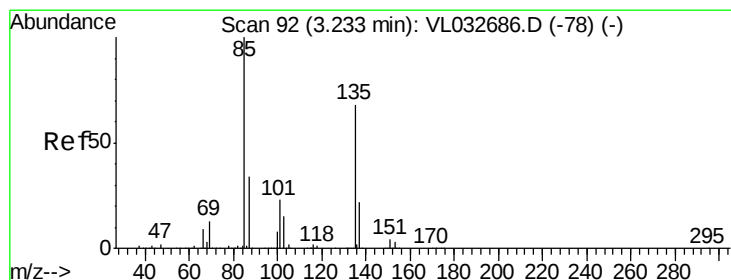
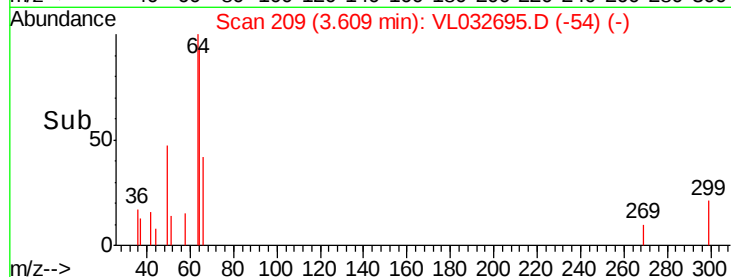
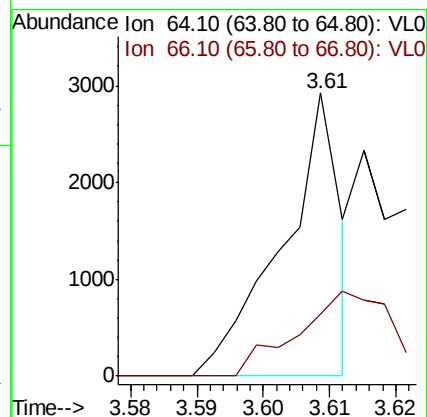
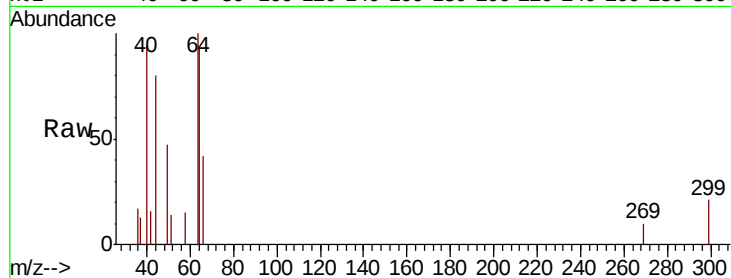
MDL-AIR-03-QT4-2018 0.1 LOD

Tgt Ion: 64 Resp: 1770

Ion Ratio Lower Upper

64 100

66 21.7 24.4 36.6#



#8

Dichlorotetrafluoroethane

Concen: 0.083 ppbv

RT: 3.23 min Scan# 91

Delta R.T. -0.00 min

Lab File: VL032695.D

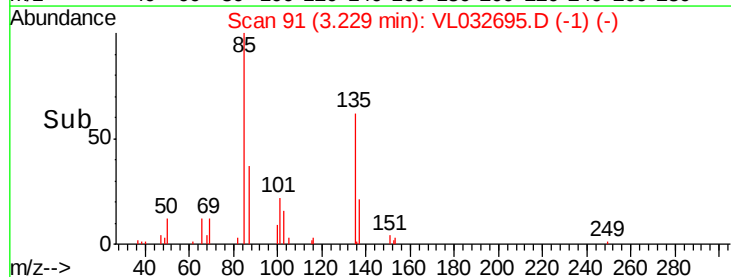
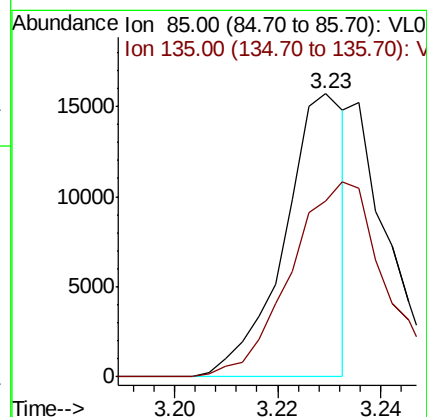
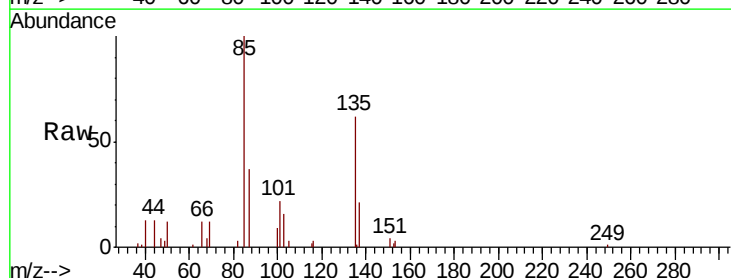
Acq: 24 Oct 2018 19:54

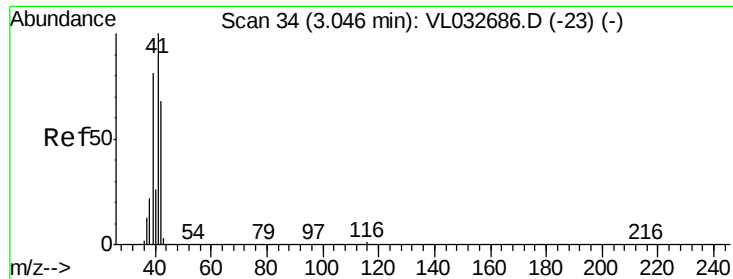
Tgt Ion: 85 Resp: 12933

Ion Ratio Lower Upper

85 100

135 0.0 49.0 73.4#





#9

Propene

Concen: 0.124 ppbv

RT: 3.04 min Scan# 33

Delta R.T. -0.00 min

Lab File: VL032695.D

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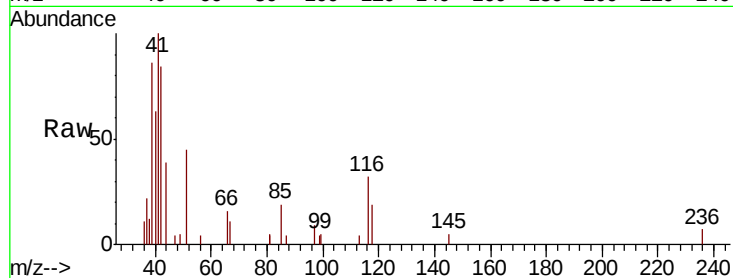
MDL-AIR-03-QT4-2018 0.1 LOD

Tgt Ion: 41 Resp: 5758

Ion Ratio Lower Upper

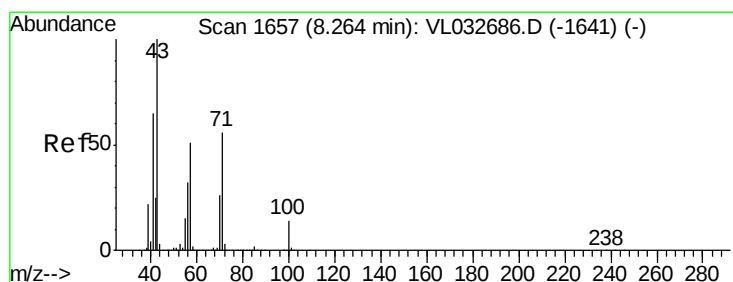
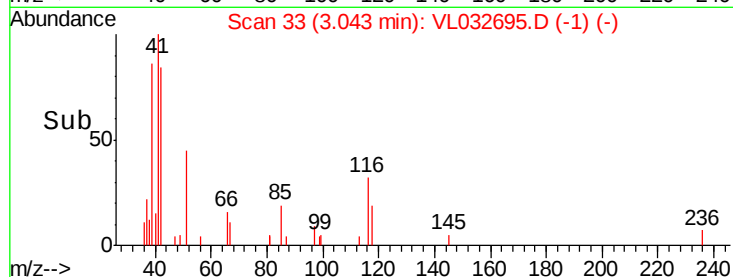
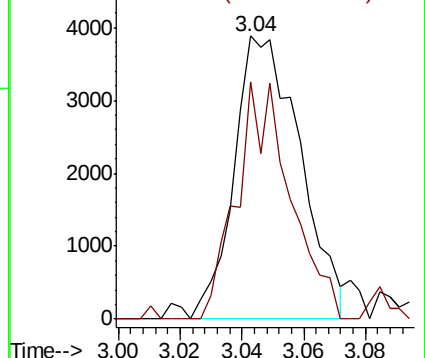
41 100

42 71.7 55.4 83.0



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.040 ppbv

RT: 8.25 min Scan# 1654

Delta R.T. -0.01 min

Lab File: VL032695.D

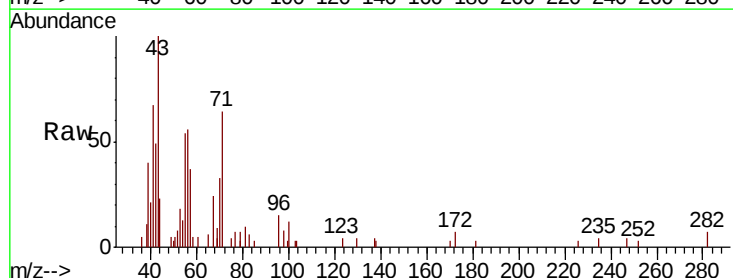
Acq: 24 Oct 2018 19:54

Tgt Ion: 43 Resp: 7097

Ion Ratio Lower Upper

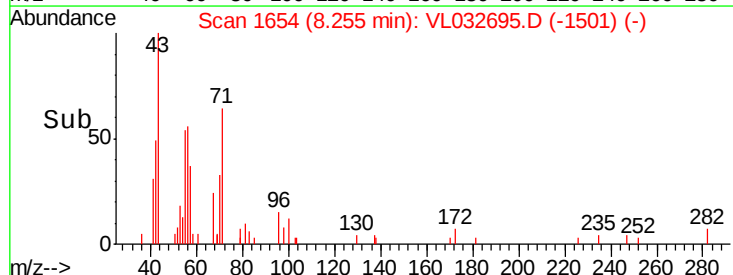
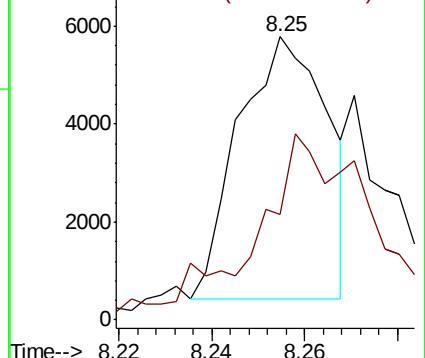
43 100

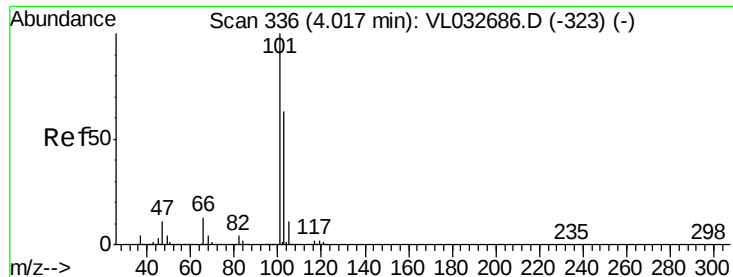
57 94.6 41.5 62.3#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 0.118 ppbv

RT: 4.02 min Scan# 337

Delta R.T. 0.01 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

Instrument :

MSVOA_L

ClientSampleId :

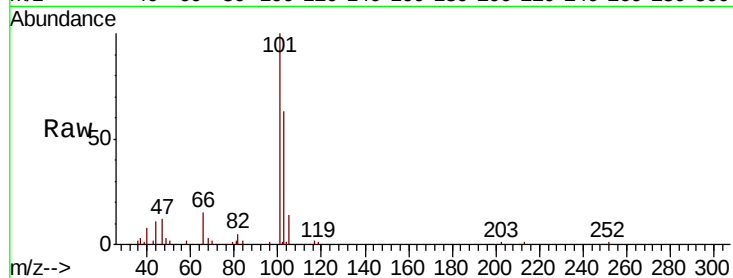
MDL-AIR-03-QT4-2018 0.1 LOD

Tgt Ion:101 Resp: 22625

Ion Ratio Lower Upper

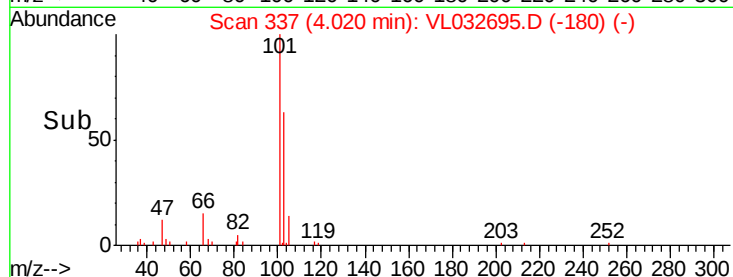
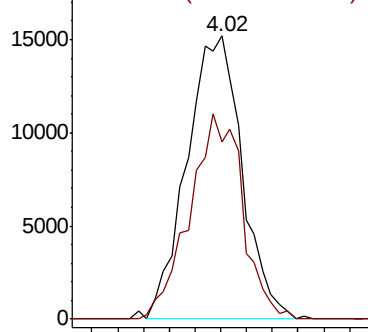
101 100

103 62.7 51.4 77.2

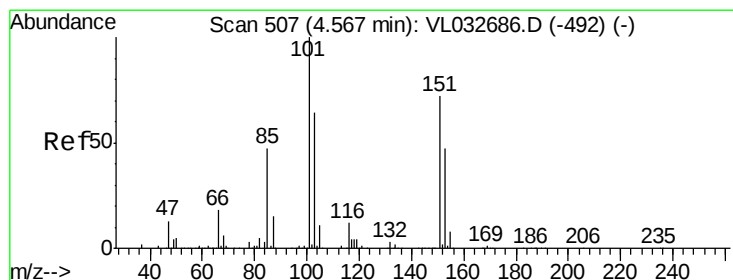


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.054 ppbv

RT: 4.56 min Scan# 505

Delta R.T. -0.00 min

Lab File: VL032695.D

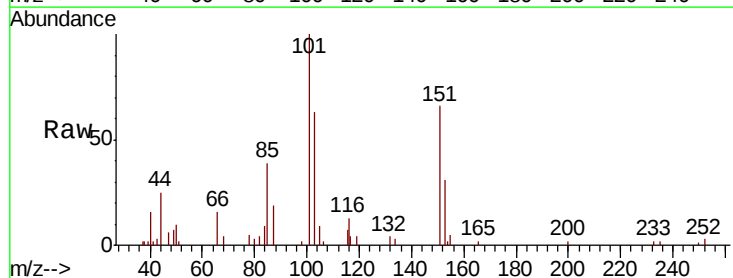
Acq: 24 Oct 2018 19:54

Tgt Ion:101 Resp: 8630

Ion Ratio Lower Upper

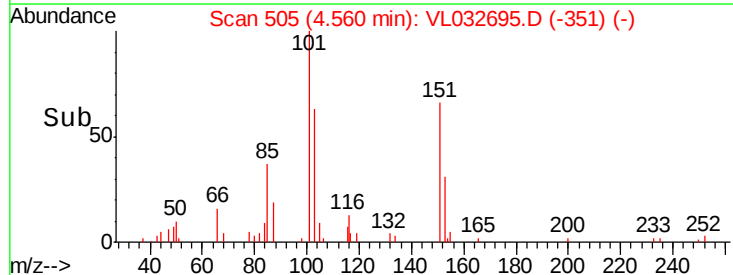
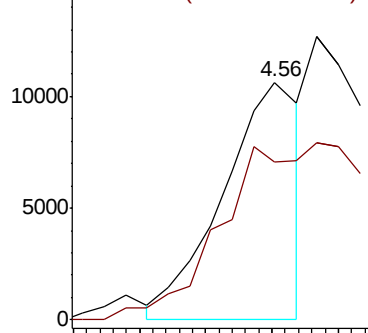
101 100

151 0.0 52.3 78.5#

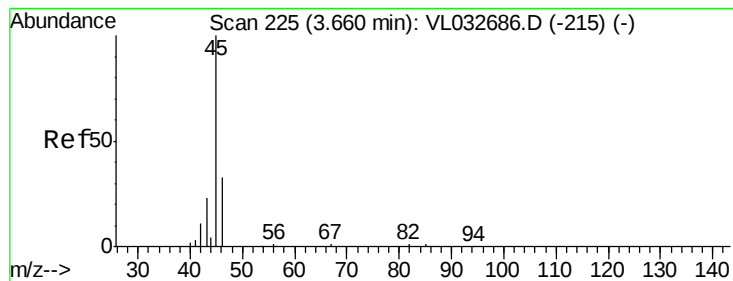


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



Time-->



#13

Ethanol

Concen: 0.025 ppbv

RT: 3.67 min Scan# 228

Delta R.T. 0.01 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

Instrument :

MSVOA_L

ClientSampleId :

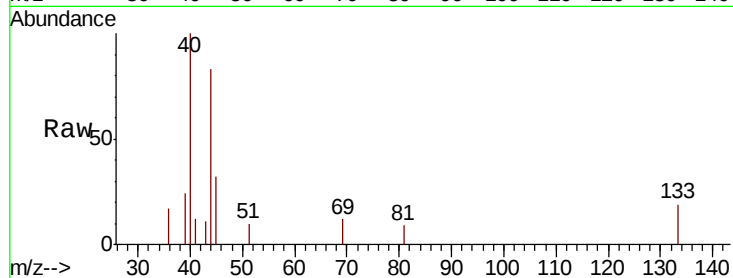
MDL-AIR-03-QT4-2018 0.1 LOD

Tgt Ion: 45 Resp: 326

Ion Ratio Lower Upper

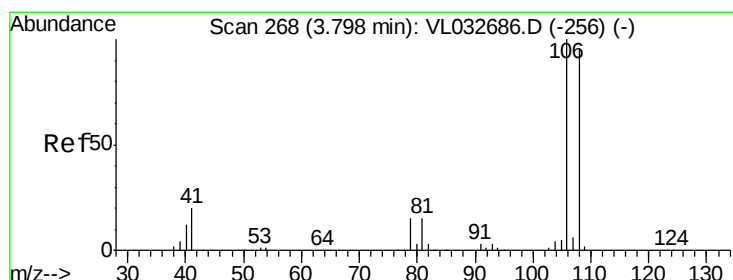
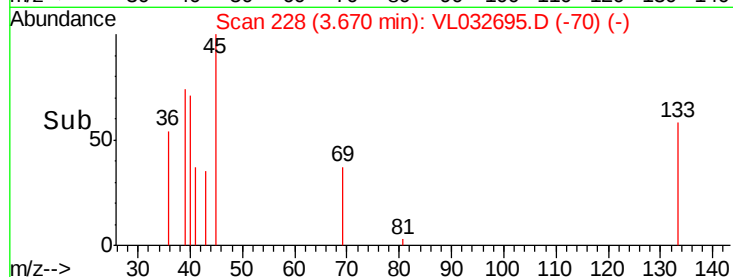
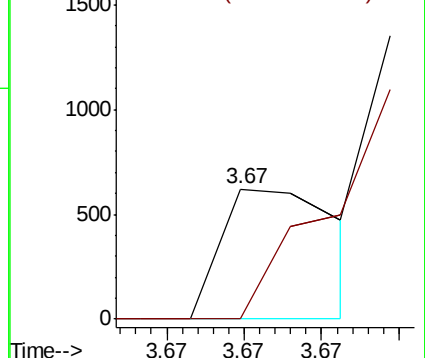
45 100

46 0.0 15.4 61.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 0.114 ppbv

RT: 3.80 min Scan# 268

Delta R.T. -0.00 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

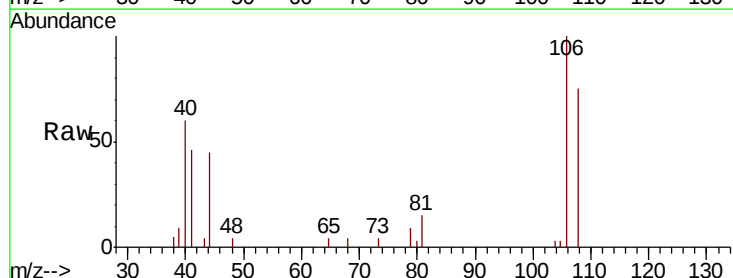
Tgt Ion: 108 Resp: 6185

Ion Ratio Lower Upper

108 100

106 116.1 85.0 127.4

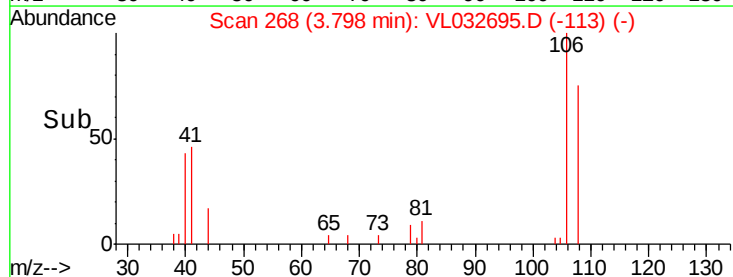
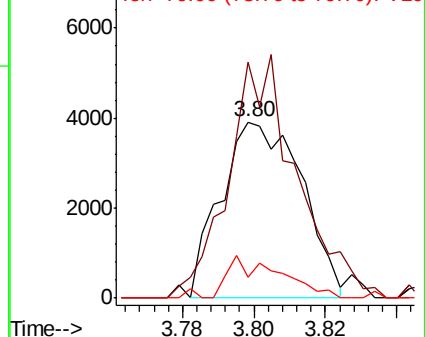
79 17.2 13.7 20.5

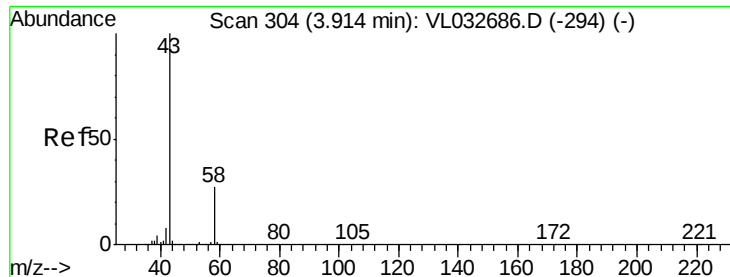


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 0.223 ppbv

RT: 3.94 min Scan# 312

Delta R.T. 0.03 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

Instrument :

MSVOA_L

ClientSampleId :

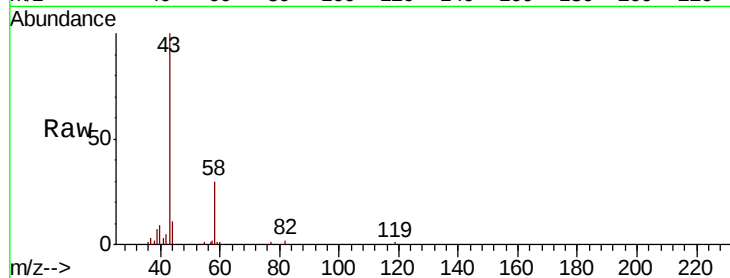
MDL-AIR-03-QT4-2018 0.1 LOD

Tgt Ion: 43 Resp: 29711

Ion Ratio Lower Upper

43 100

58 29.1 22.1 33.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.94

20000

15000

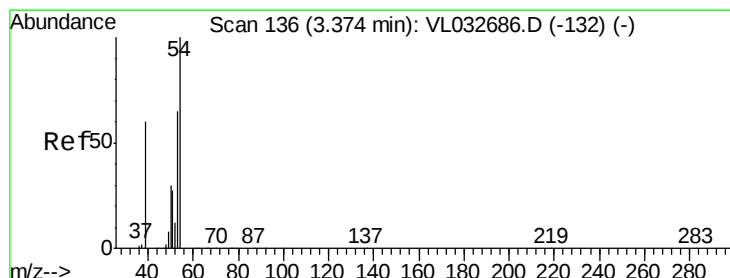
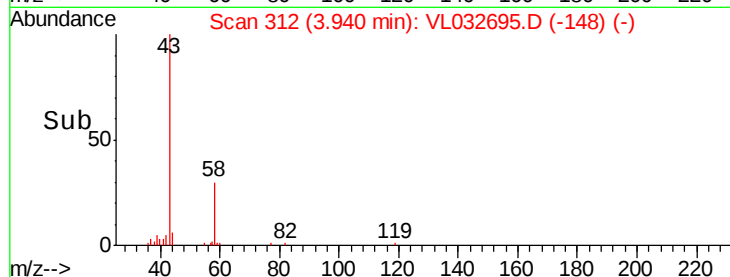
10000

5000

0

Time-->

3.90 3.95 4.00



#16

1,3-Butadiene

Concen: 0.115 ppbv

RT: 3.37 min Scan# 136

Delta R.T. -0.00 min

Lab File: VL032695.D

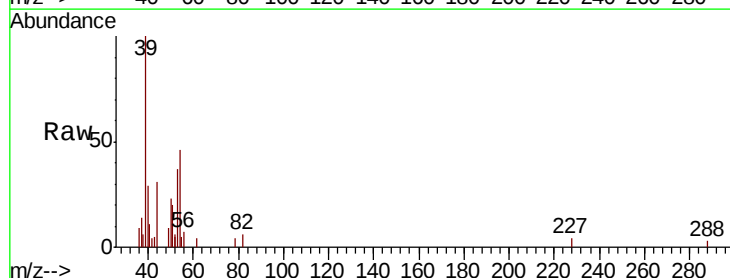
Acq: 24 Oct 2018 19:54

Tgt Ion: 39 Resp: 5627

Ion Ratio Lower Upper

39 100

54 89.9 90.4 135.6#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.37

6000

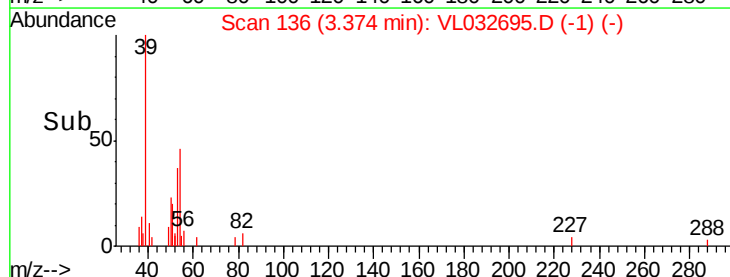
4000

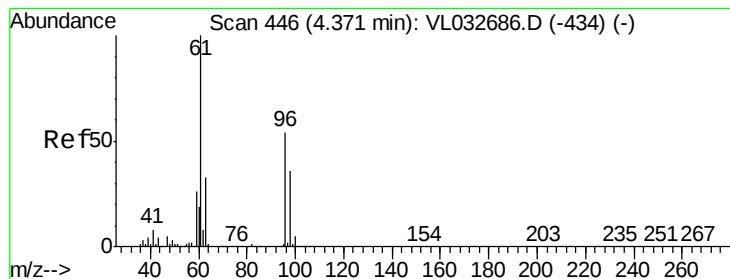
2000

0

Time-->

3.36 3.38 3.40





#17

tert-Butyl alcohol

Concen: 0.009 ppbv

RT: 4.37 min Scan# 445

Delta R.T. -0.01 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

Instrument :

MSVOA_L

ClientSampleId :

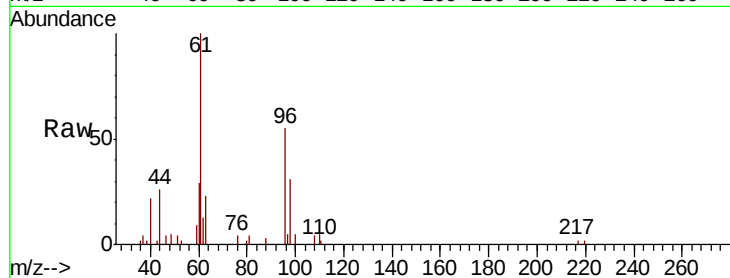
MDL-AIR-03-QT4-2018 0.1 LOD

Tgt Ion: 59 Resp: 365

Ion Ratio Lower Upper

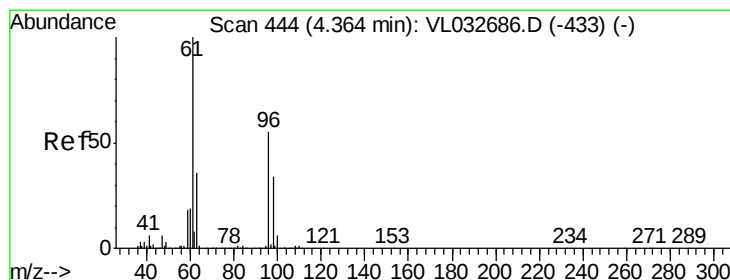
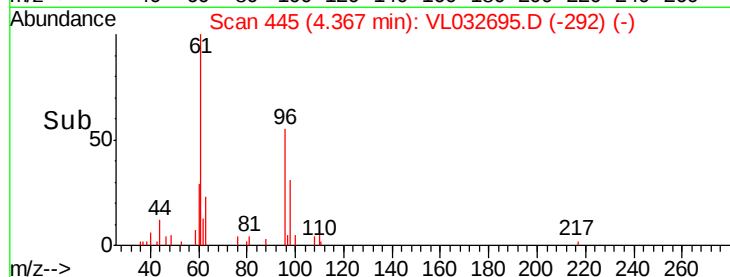
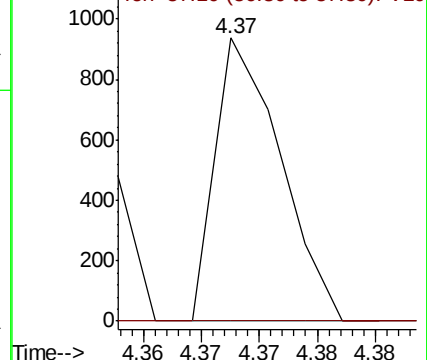
59 100

57 0.0 0.0 0.0



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 0.046 ppbv

RT: 4.36 min Scan# 442

Delta R.T. -0.01 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

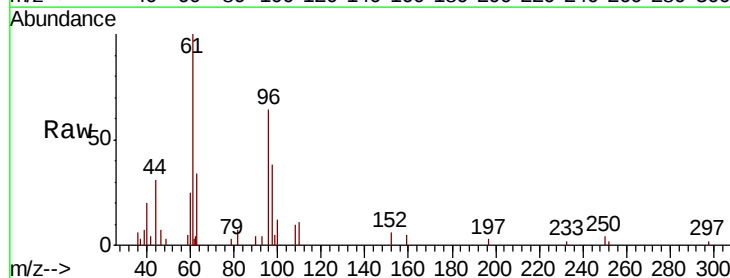
Tgt Ion: 96 Resp: 3252

Ion Ratio Lower Upper

96 100

61 154.6 151.6 227.4

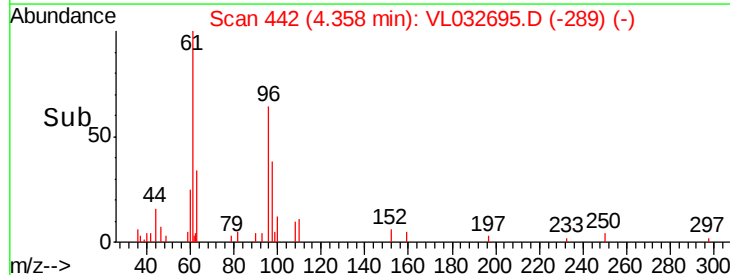
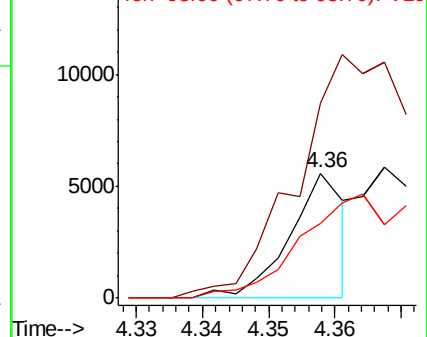
98 59.3 50.6 75.8

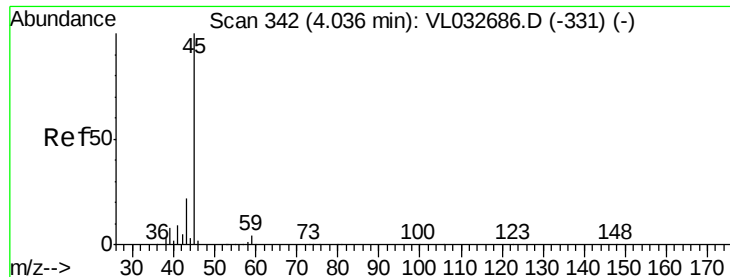


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 0.050 ppbv

RT: 4.07 min Scan# 352

Delta R.T. 0.04 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

Instrument :

MSVOA_L

ClientSampleId :

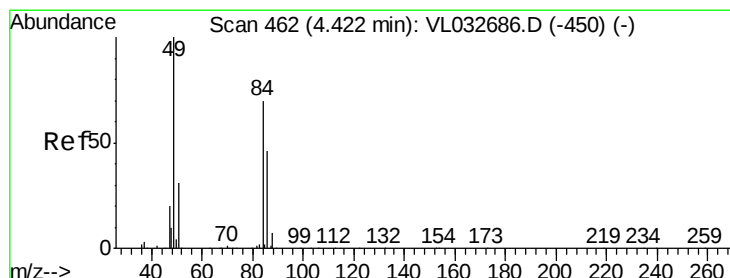
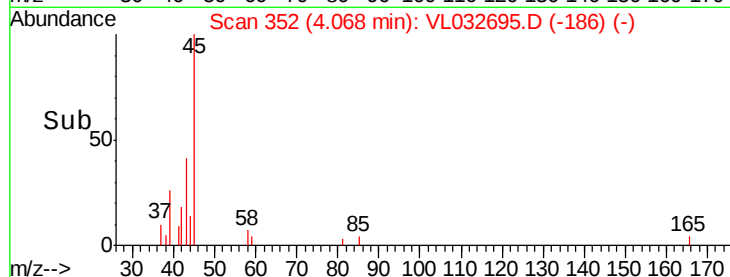
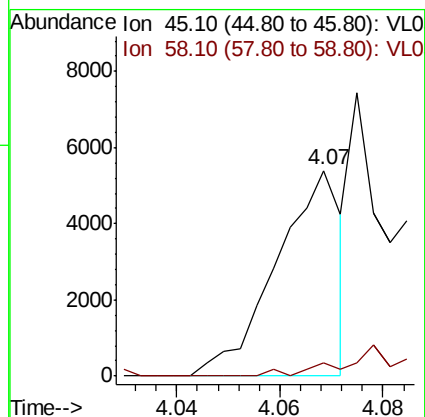
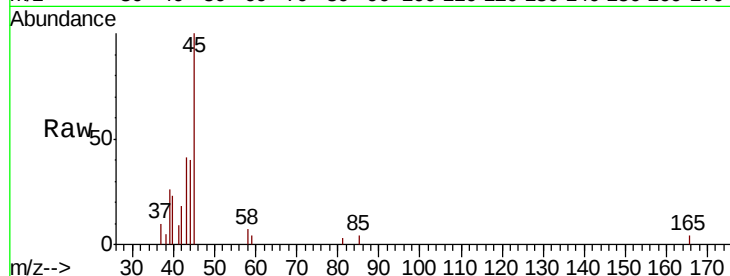
MDL-AIR-03-QT4-2018 0.1 LOD

Tgt Ion: 45 Resp: 4712

Ion Ratio Lower Upper

45 100

58 0.0 2.0 3.0#



#20

Methylene Chloride

Concen: 0.140 ppbv

RT: 4.42 min Scan# 462

Delta R.T. 0.00 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

Tgt Ion: 84 Resp: 9501

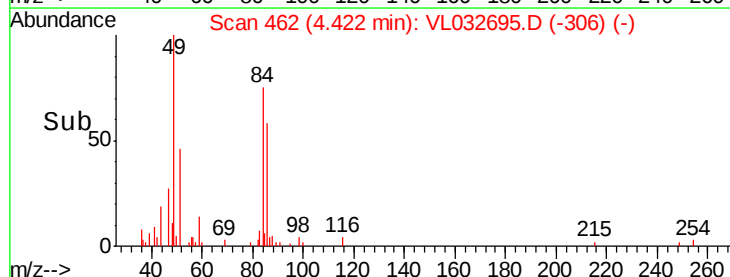
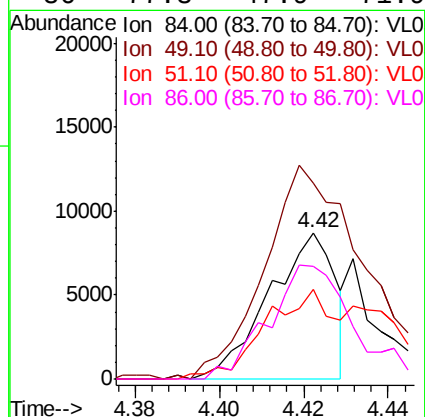
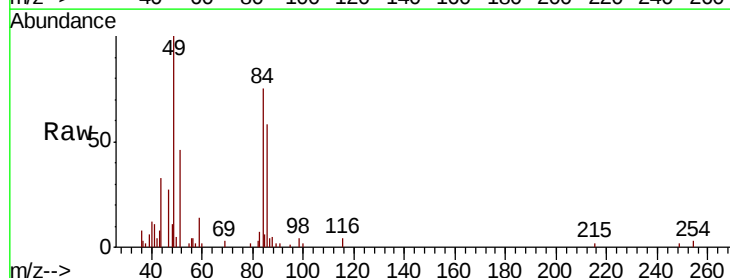
Ion Ratio Lower Upper

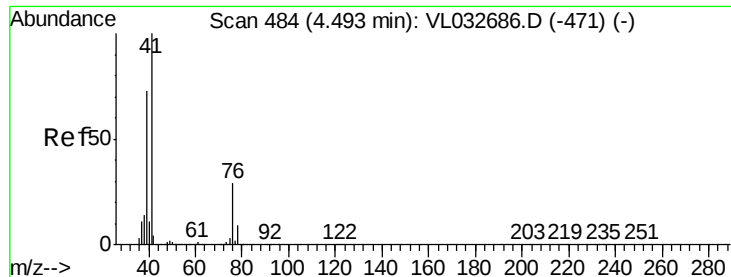
84 100

49 133.9 113.5 170.3

51 58.1 34.8 52.2#

86 77.3 47.9 71.9#





#21

Allyl Chloride

Concen: 0.111 ppbv

RT: 4.49 min Scan# 484

Delta R.T. 0.00 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

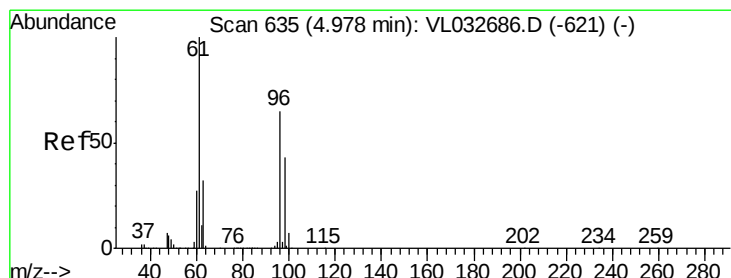
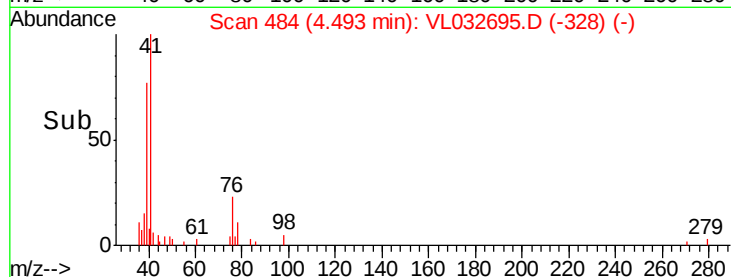
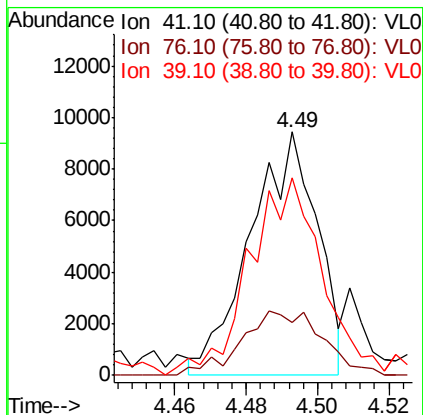
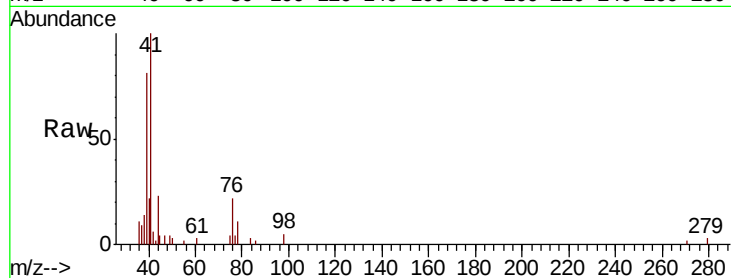
Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT4-2018 0.1 LOD

Tgt Ion:	41	Resp:	12209
Ion	Ratio	Lower	Upper
41	100		
76	32.4	24.3	36.5
39	92.8	60.3	90.5#



#22

trans-1,2-Dichloroethene

Concen: 0.015 ppbv

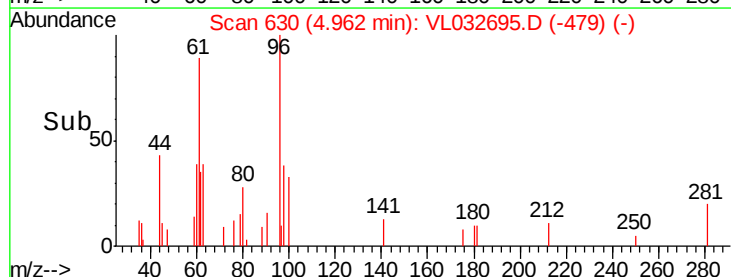
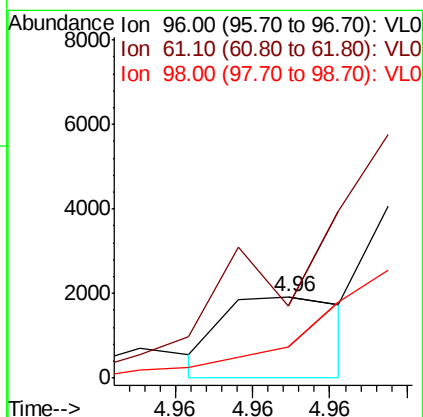
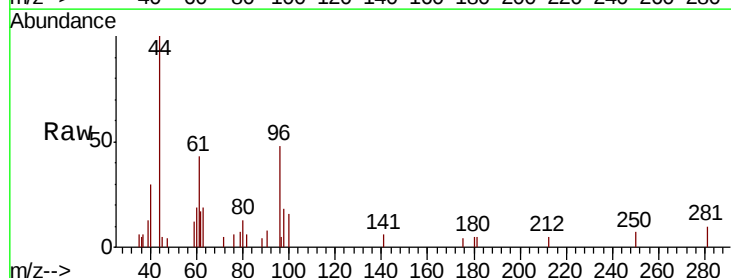
RT: 4.96 min Scan# 630

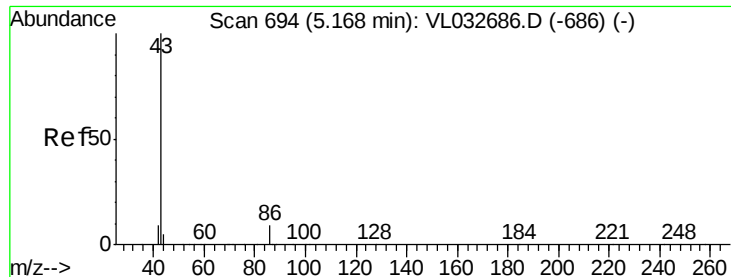
Delta R.T. -0.01 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

Tgt Ion:	96	Resp:	1066
Ion	Ratio	Lower	Upper
96	100		
61	48.0	140.4	210.6#
98	30.4	55.0	82.6#





#23

Vinyl Acetate

Concen: 0.013 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.02 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT4-2018 0.1 LOD

Tgt Ion: 43 Resp: 3125

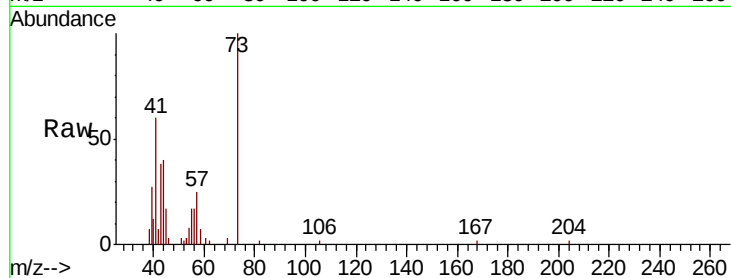
Ion Ratio Lower Upper

43 100

86 0.0 6.1 9.1#

42 19.5 7.4 11.2#

44 55.9 4.2 6.2#

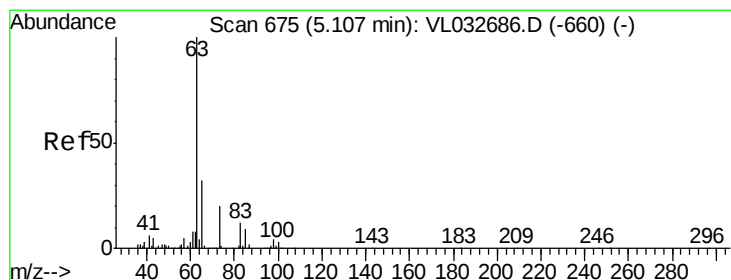
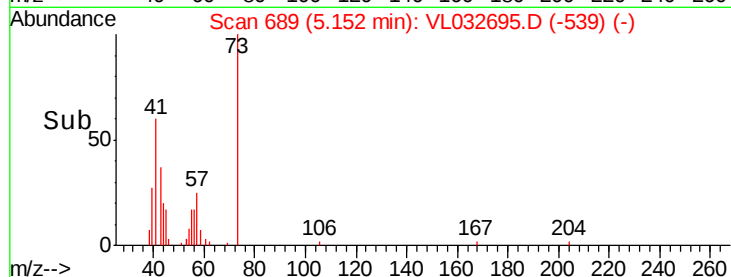
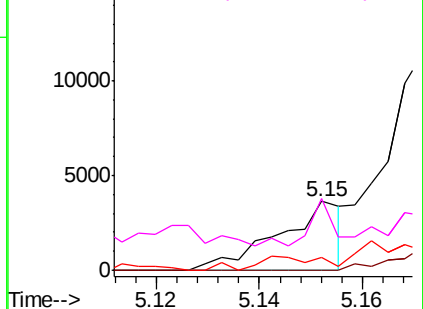


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 0.072 ppbv

RT: 5.10 min Scan# 673

Delta R.T. -0.00 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

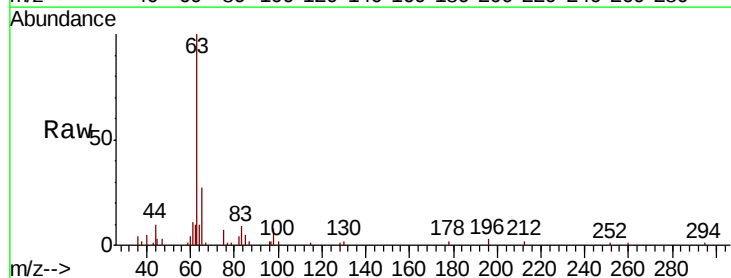
Tgt Ion: 63 Resp: 13286

Ion Ratio Lower Upper

63 100

98 7.9 2.1 6.3#

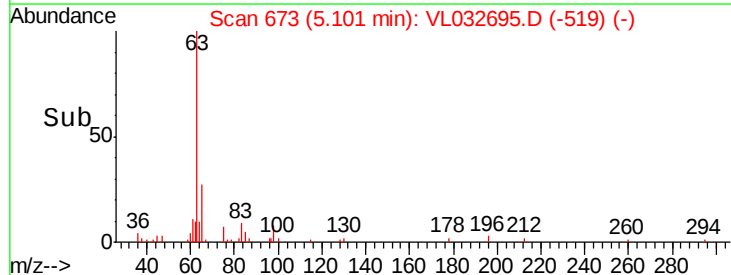
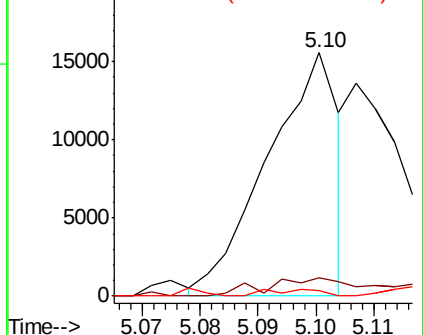
100 2.1 1.2 3.6

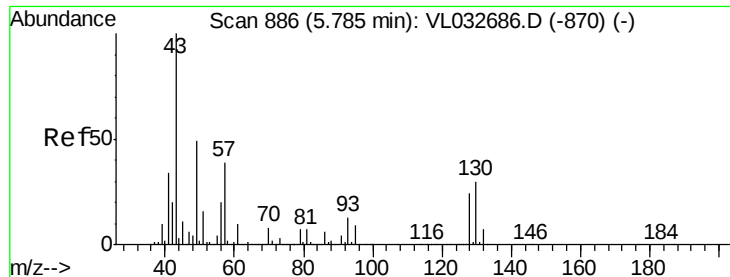


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 0.112 ppbv

RT: 5.80 min Scan# 889

Delta R.T. 0.02 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT4-2018 0.1 LOD

Tgt Ion: 43 Resp: 34496

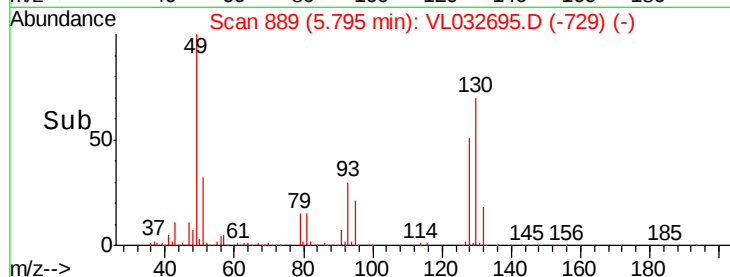
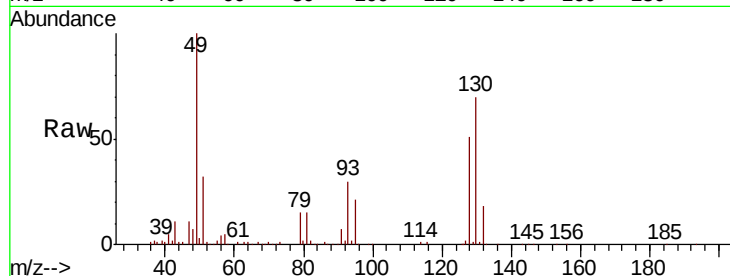
Ion Ratio Lower Upper

43 100

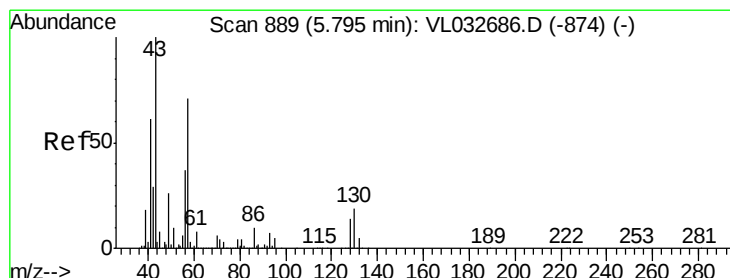
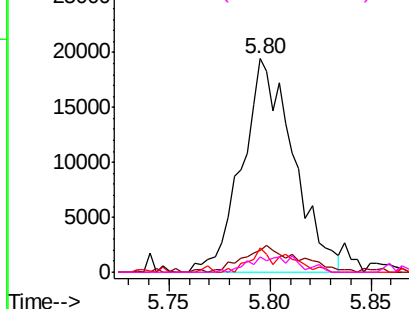
45 13.7 8.0 12.0#

61 8.7 8.0 12.0

70 7.1 5.9 8.9



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



#26

Hexane

Concen: 0.020 ppbv

RT: 5.78 min Scan# 884

Delta R.T. -0.01 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

Tgt Ion: 57 Resp: 2856

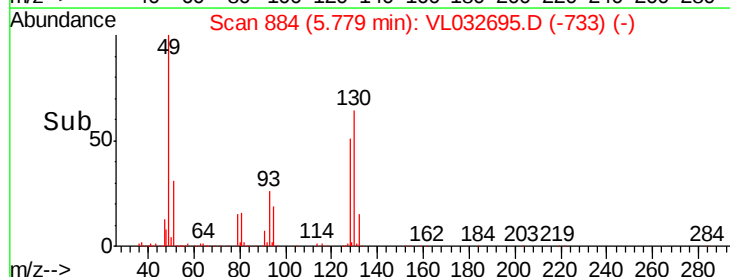
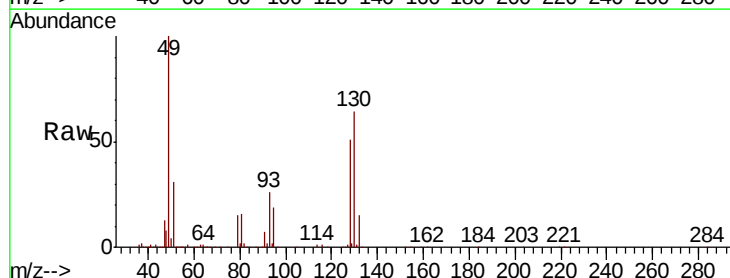
Ion Ratio Lower Upper

57 100

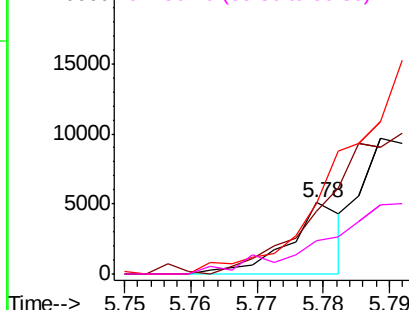
41 0.0 67.4 101.0#

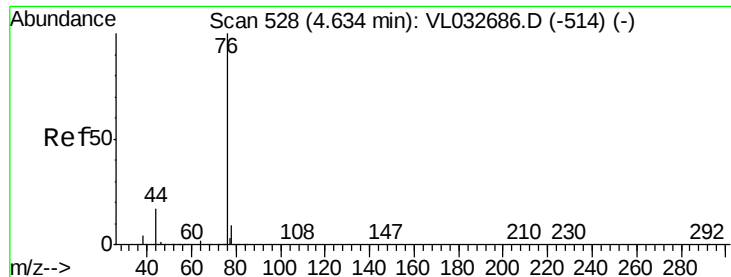
43 0.0 171.9 257.9#

56 0.0 42.6 63.8#



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.091 ppbv

RT: 4.63 min Scan# 527

Delta R.T. -0.00 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT4-2018 0.1 LOD

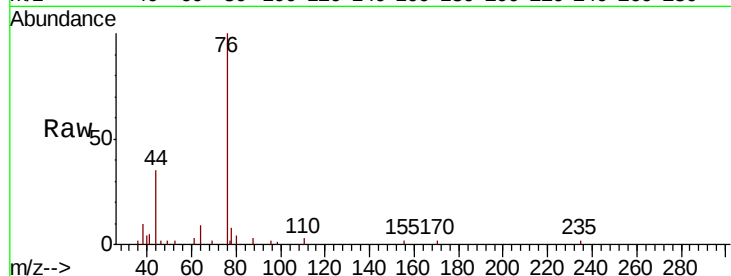
Tgt Ion: 76 Resp: 16053

Ion Ratio Lower Upper

76 100

44 42.4 13.7 20.5#

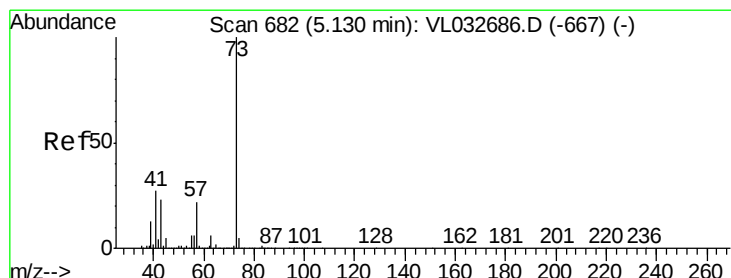
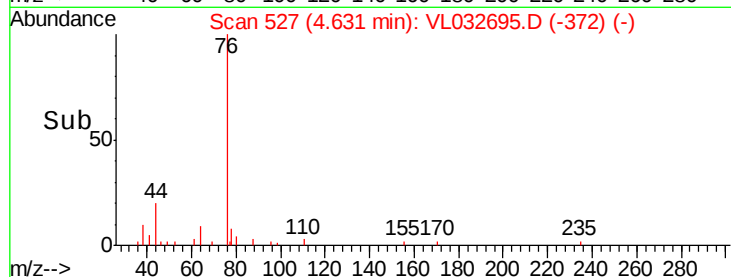
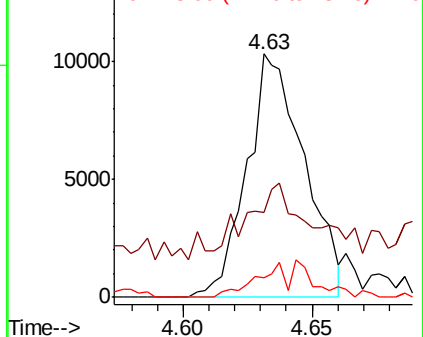
78 13.5 7.4 11.2#



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 0.001 ppbv

RT: 5.12 min Scan# 679

Delta R.T. -0.01 min

Lab File: VL032695.D

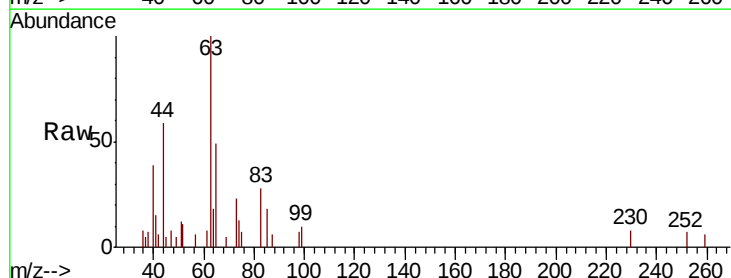
Acq: 24 Oct 2018 19:54

Tgt Ion: 73 Resp: 176

Ion Ratio Lower Upper

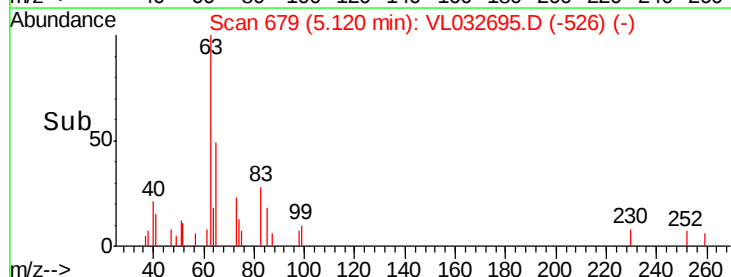
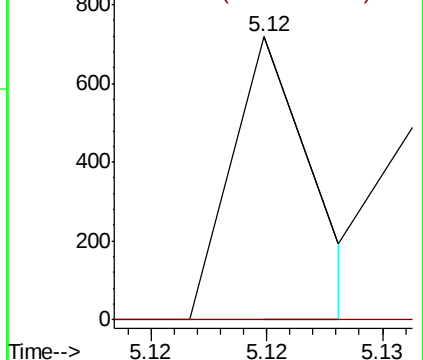
73 100

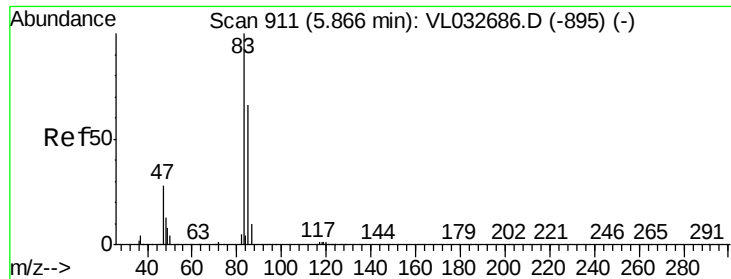
57 0.0 18.0 27.0#



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

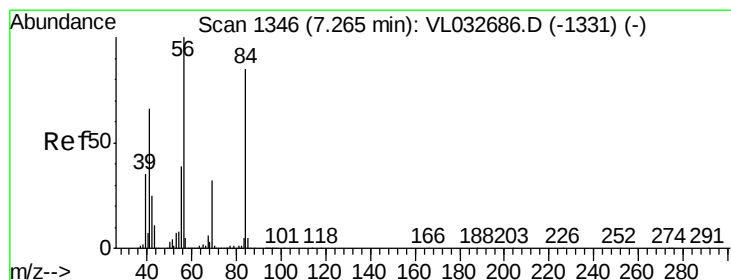
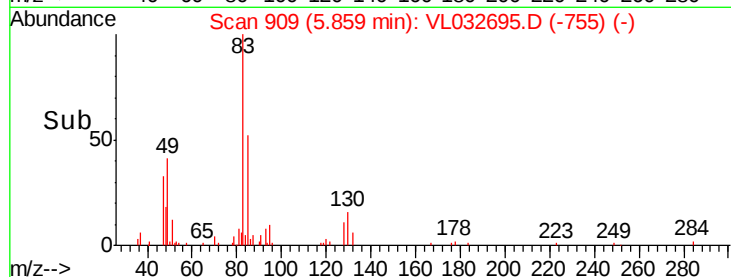
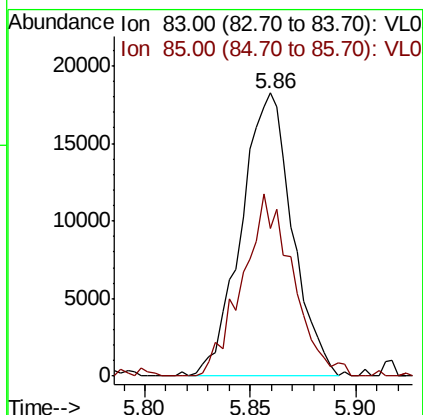
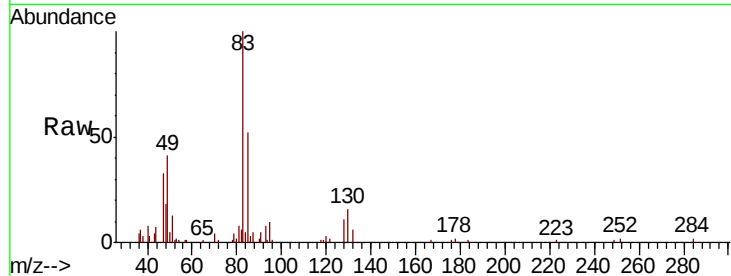




#29
Chloroform
Concen: 0.133 ppbv
RT: 5.86 min Scan# 909
Delta R.T. -0.00 min
Lab File: VL032695.D
Acq: 24 Oct 2018 19:54

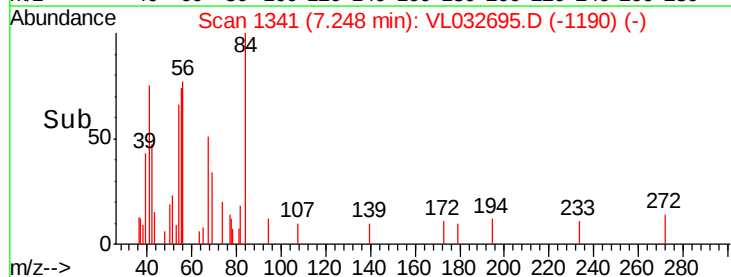
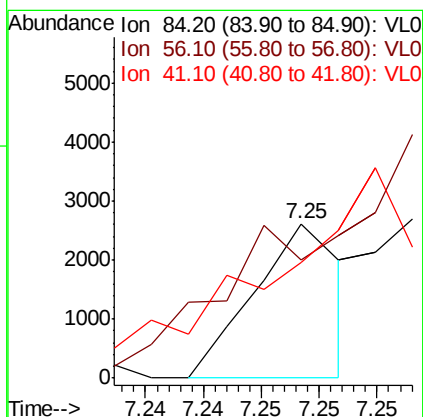
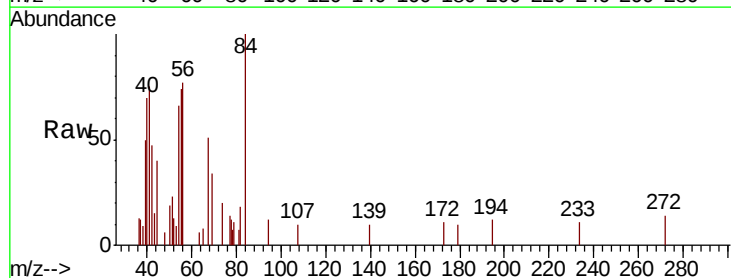
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2018 0.1 LOD

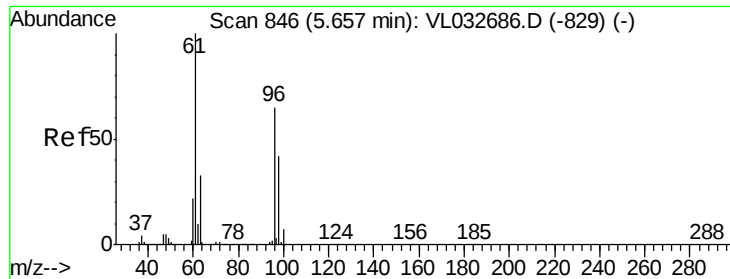
Tgt Ion: 83 Resp: 30831
Ion Ratio Lower Upper
83 100
85 52.2 53.0 79.6#



#30
Cyclohexane
Concen: 0.012 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. -0.01 min
Lab File: VL032695.D
Acq: 24 Oct 2018 19:54

Tgt Ion: 84 Resp: 1380
Ion Ratio Lower Upper
84 100
56 0.0 108.3 162.5#
41 0.0 64.8 97.2#



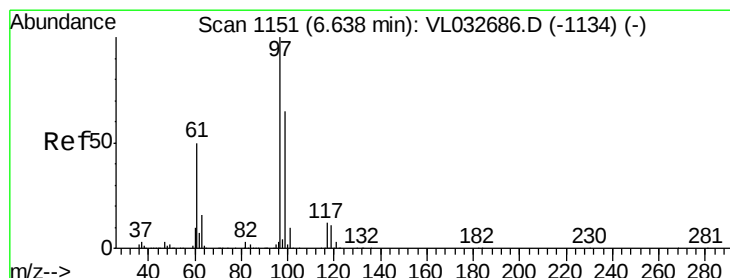
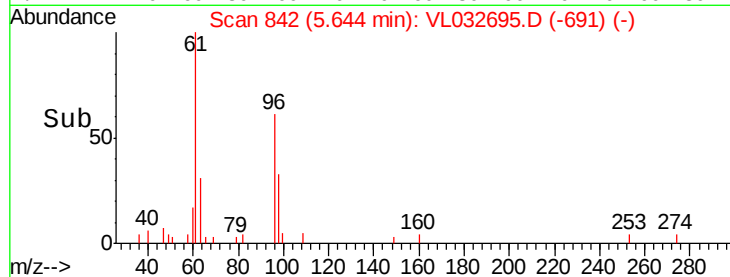
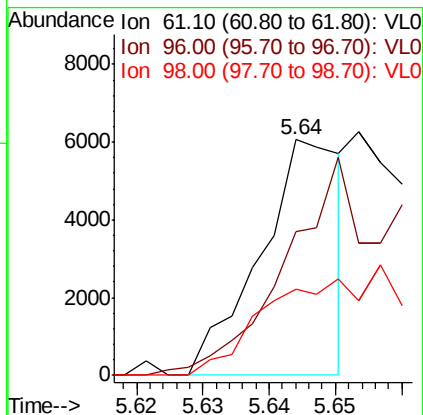
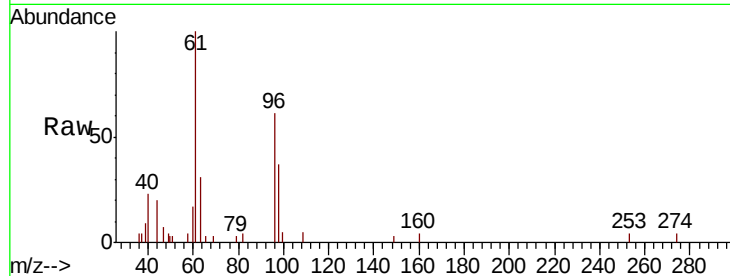


#31

cis-1,2-Dichloroethene
 Concen: 0.038 ppbv
 RT: 5.64 min Scan# 842
 Delta R.T. -0.01 min
 Lab File: VL032695.D
 Acq: 24 Oct 2018 19:54

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT4-2018 0.1 LOD

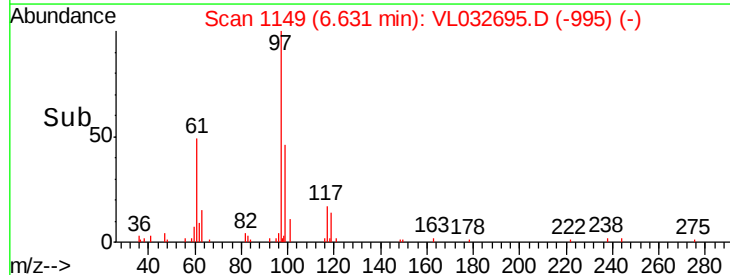
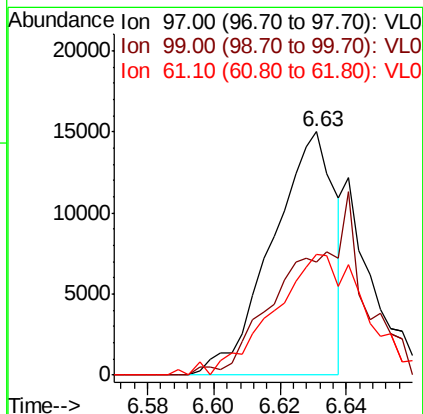
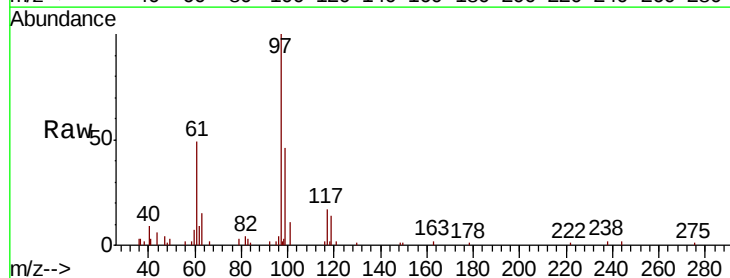
Tgt Ion: 61 Resp: 5165
 Ion Ratio Lower Upper
 61 100
 96 57.8 51.8 77.6
 98 36.7 33.8 50.6

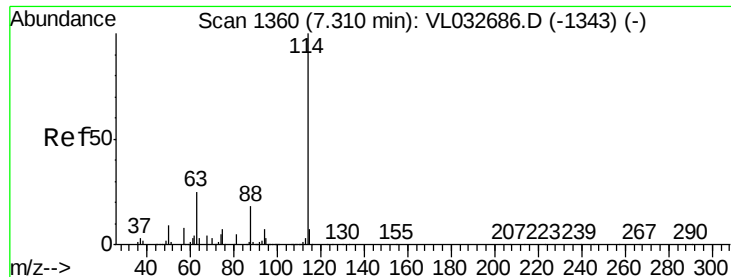


#32

1,1,1-Trichloroethane
 Concen: 0.083 ppbv
 RT: 6.63 min Scan# 1149
 Delta R.T. -0.00 min
 Lab File: VL032695.D
 Acq: 24 Oct 2018 19:54

Tgt Ion: 97 Resp: 19700
 Ion Ratio Lower Upper
 97 100
 99 0.0 52.0 78.0#
 61 73.2 40.7 61.1#

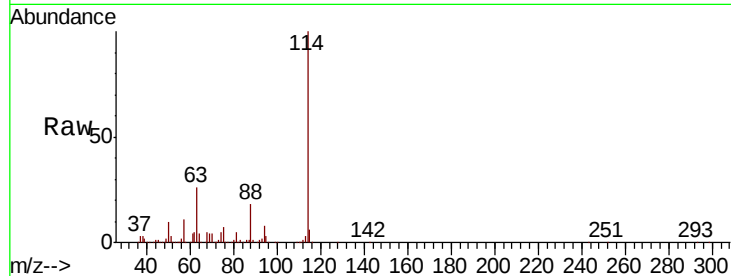




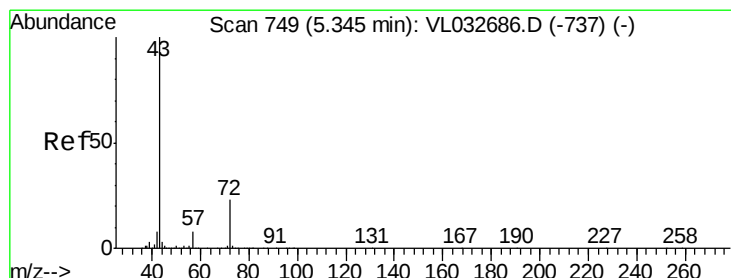
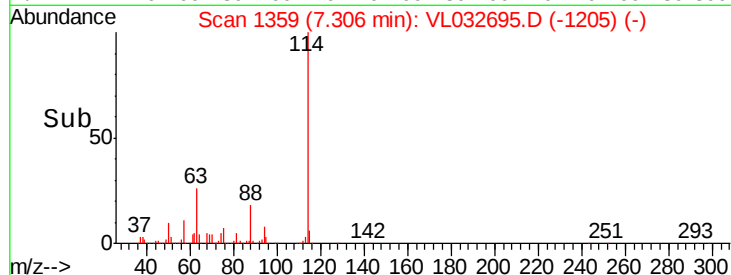
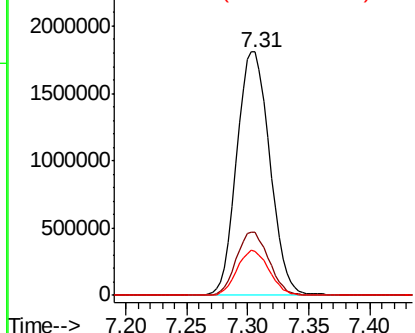
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.31 min Scan# 1359
 Delta R.T. -0.00 min
 Lab File: VL032695.D
 Acq: 24 Oct 2018 19:54

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT4-2018 0.1 LOD

Tgt Ion:114 Resp: 3389559
 Ion Ratio Lower Upper
 114 100
 63 25.6 21.7 32.5
 88 17.8 14.9 22.3

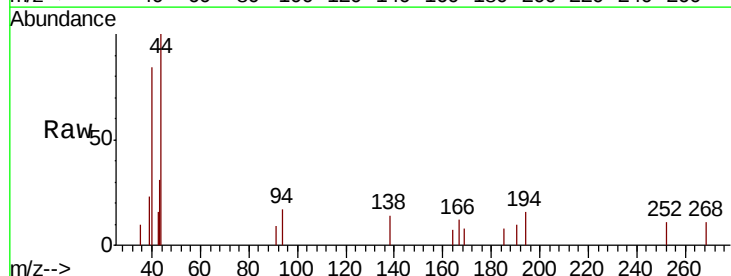


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

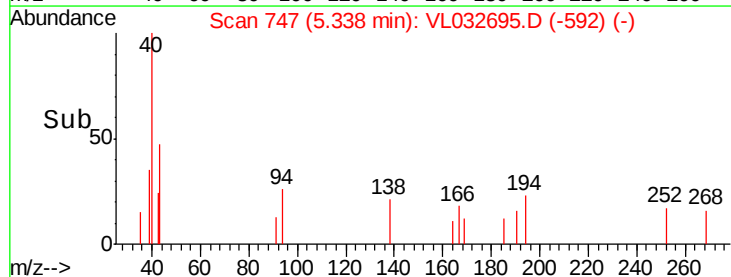
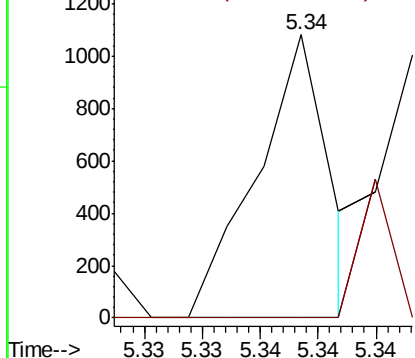


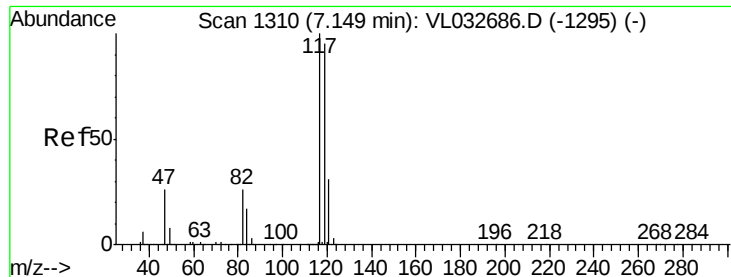
#34
 2-Butanone
 Concen: 0.003 ppbv
 RT: 5.34 min Scan# 747
 Delta R.T. -0.00 min
 Lab File: VL032695.D
 Acq: 24 Oct 2018 19:54

Tgt Ion: 43 Resp: 467
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.6 27.8#



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





#35

Carbon Tetrachloride

Concen: 0.076 ppbv

RT: 7.15 min Scan# 1309

Delta R.T. -0.00 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT4-2018 0.1 LOD

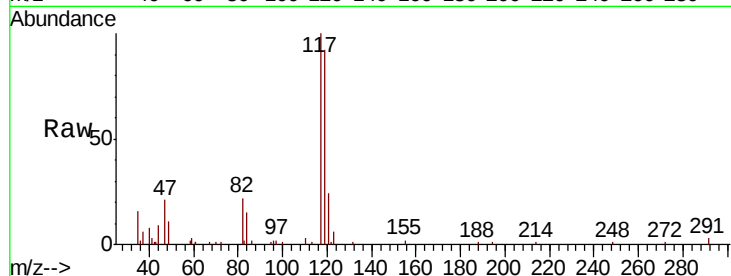
Tgt Ion: 117 Resp: 18304

Ion Ratio Lower Upper

117 100

119 91.5 75.7 113.5

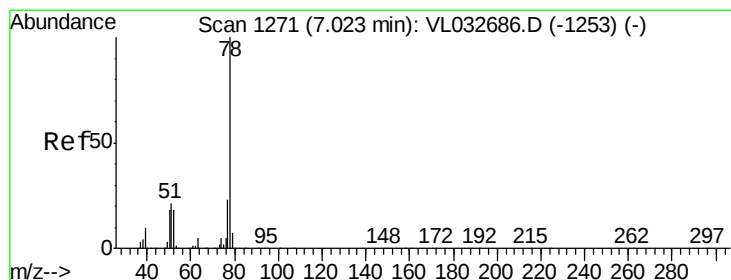
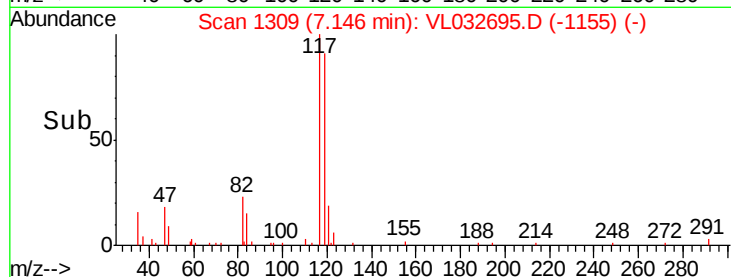
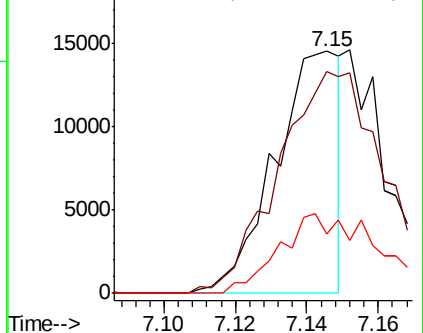
121 24.4 24.7 37.1#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.066 ppbv

RT: 7.01 min Scan# 1268

Delta R.T. -0.01 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

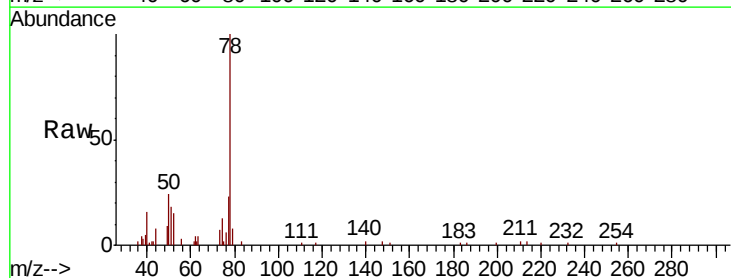
Tgt Ion: 78 Resp: 18280

Ion Ratio Lower Upper

78 100

77 21.5 18.1 27.1

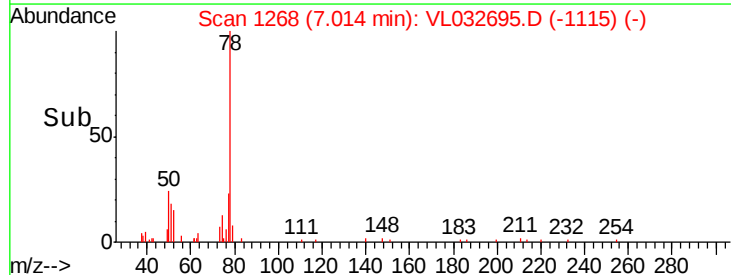
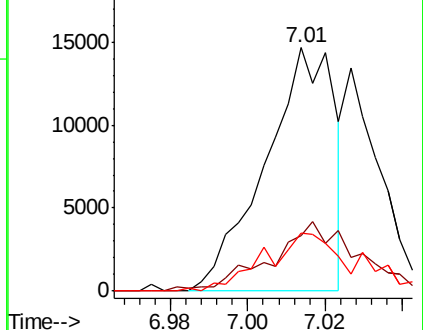
50 22.5 15.1 22.7

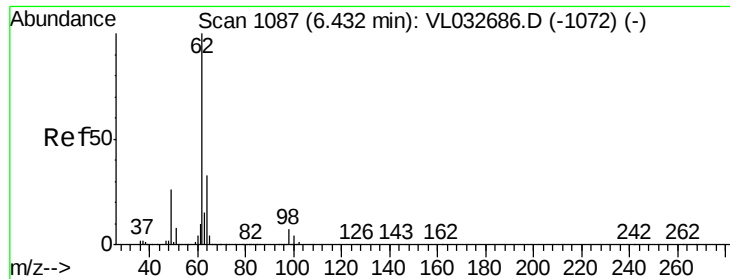


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

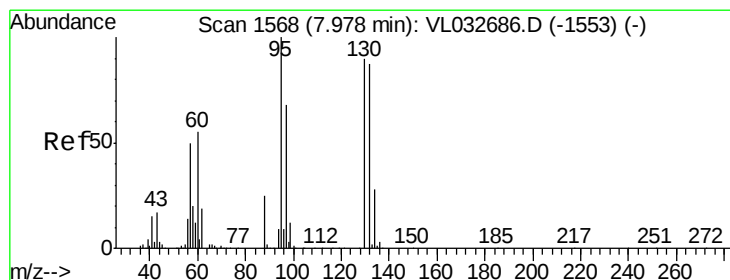
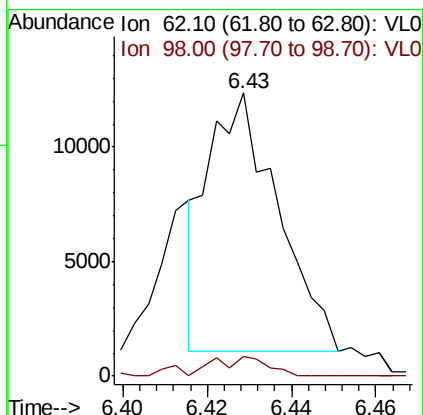
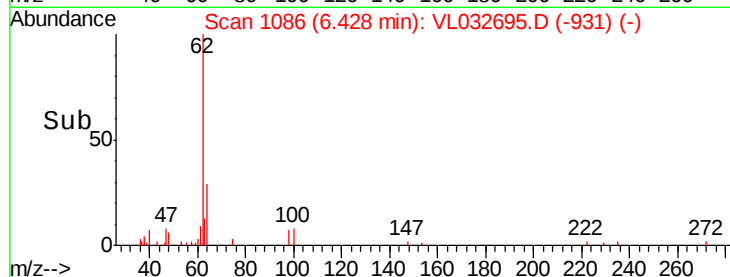
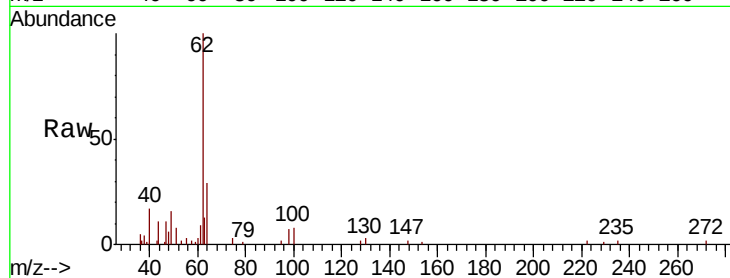




#37
 1,2-Dichloroethane
 Concen: 0.076 ppbv
 RT: 6.43 min Scan# 1086
 Delta R.T. -0.00 min
 Lab File: VL032695.D
 Acq: 24 Oct 2018 19:54

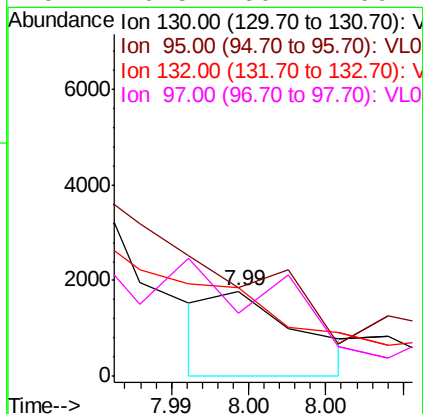
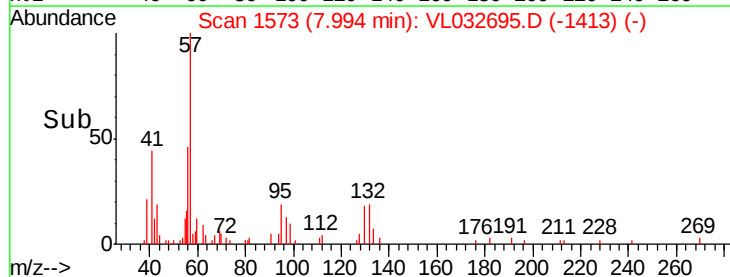
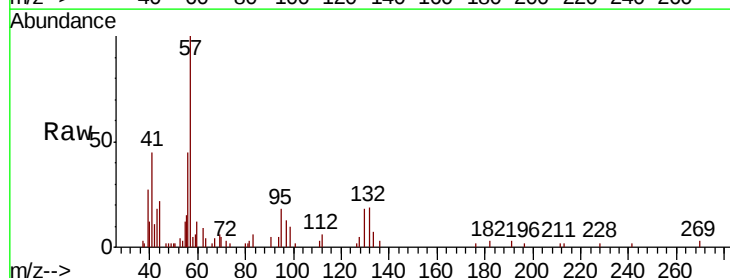
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT4-2018 0.1 LOD

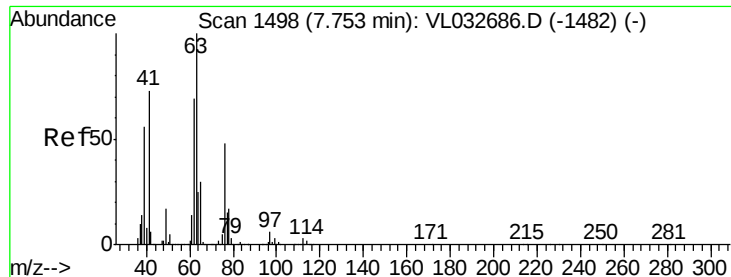
Tgt Ion: 62 Resp: 12887
 Ion Ratio Lower Upper
 62 100
 98 7.0 4.4 6.6#



#38
 Trichloroethene
 Concen: 0.007 ppbv
 RT: 7.99 min Scan# 1573
 Delta R.T. 0.02 min
 Lab File: VL032695.D
 Acq: 24 Oct 2018 19:54

Tgt Ion: 130 Resp: 685
 Ion Ratio Lower Upper
 130 100
 95 115.5 93.4 140.0
 132 92.6 76.5 114.7
 97 70.5 60.2 90.2





#39

1,2-Dichloropropane

Concen: 8.131 ppbv

RT: 7.30 min Scan# 1358

Delta R.T. -0.45 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT4-2018 0.1 LOD

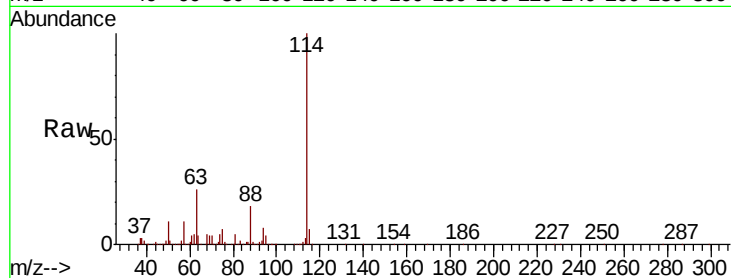
Tgt Ion: 63 Resp: 864229

Ion Ratio Lower Upper

63 100

41 0.1 56.2 84.4#

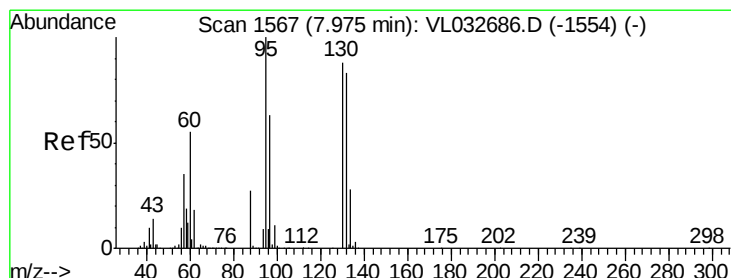
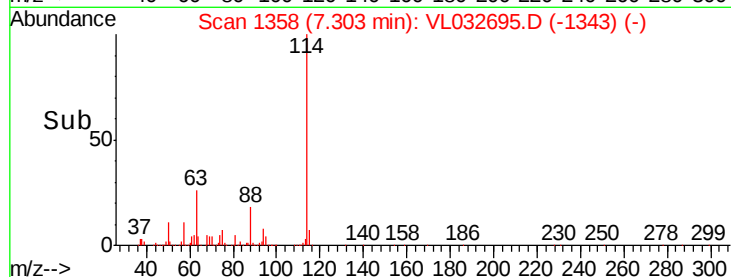
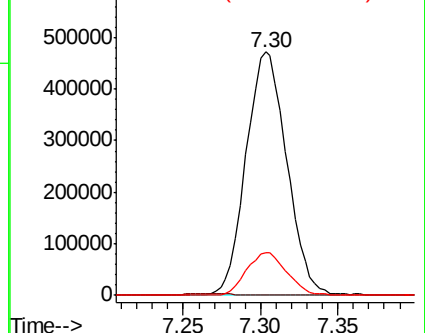
62 17.6 54.4 81.6#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 0.013 ppbv

RT: 8.04 min Scan# 1587

Delta R.T. 0.07 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

Tgt Ion: 88 Resp: 483

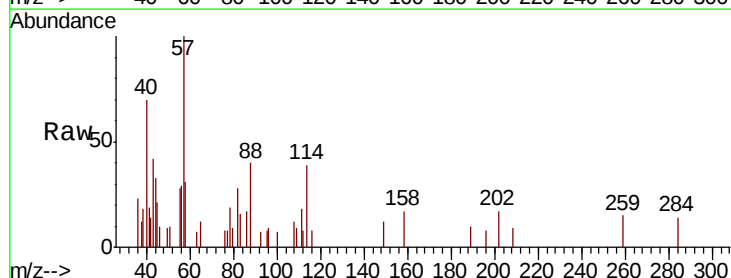
Ion Ratio Lower Upper

88 100

58 351.8 104.0 156.0#

43 1426.7 0.0 0.0#

57 6886.1 0.0 0.0#

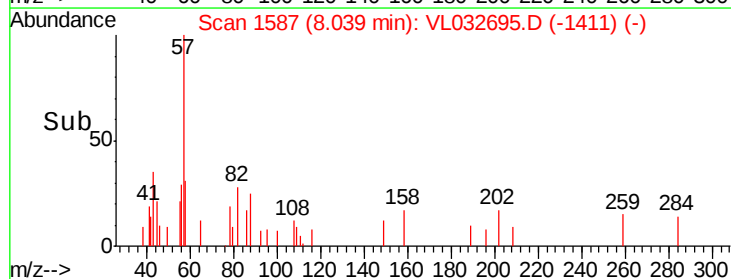
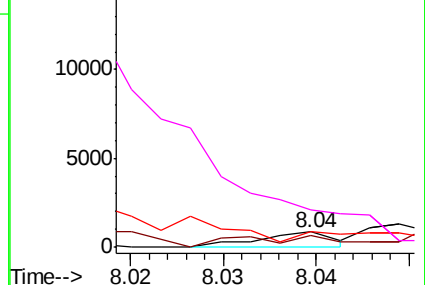


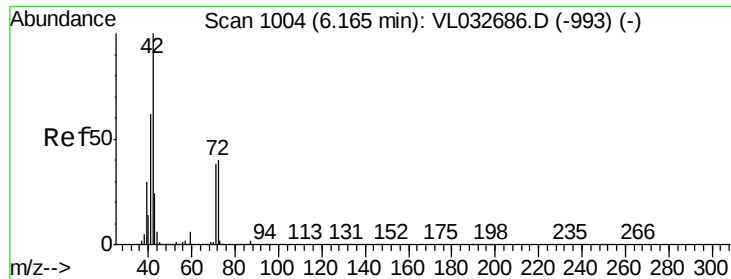
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 0.001 ppbv

RT: 6.17 min Scan# 1005

Delta R.T. 0.01 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT4-2018 0.1 LOD

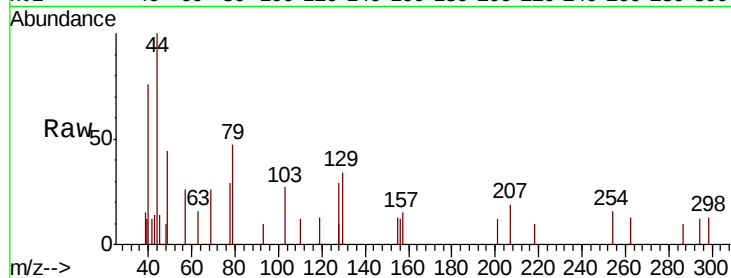
Tgt Ion: 42 Resp: 145

Ion Ratio Lower Upper

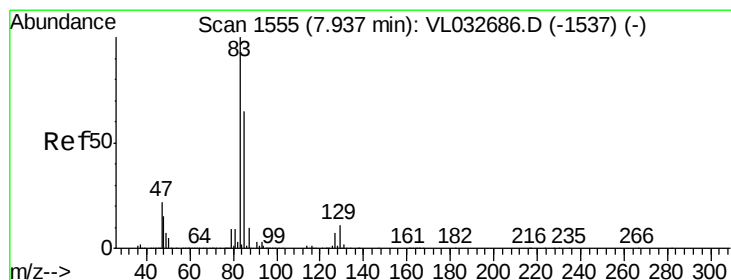
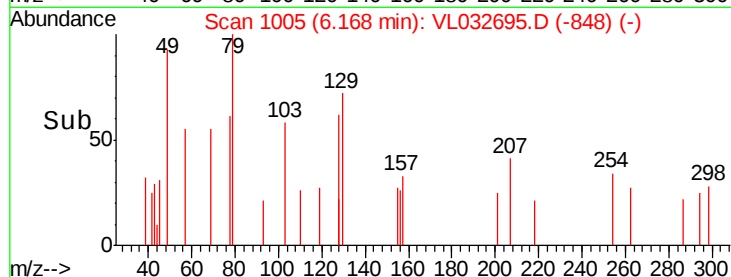
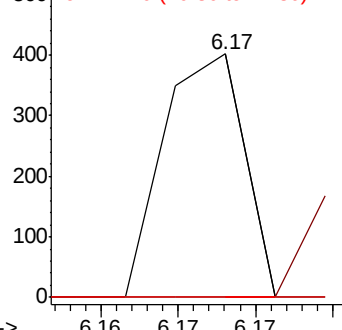
42 100

72 0.0 32.4 48.6#

71 0.0 31.3 46.9#



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 0.059 ppbv

RT: 7.93 min Scan# 1554

Delta R.T. -0.00 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

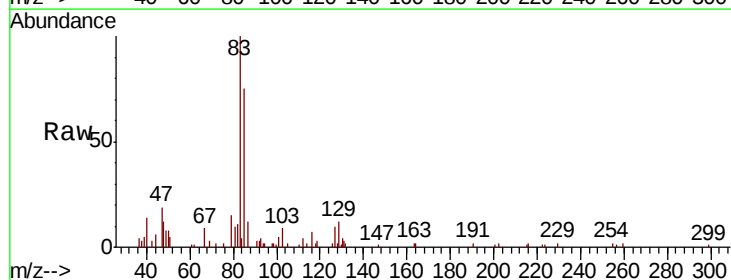
Tgt Ion: 83 Resp: 13940

Ion Ratio Lower Upper

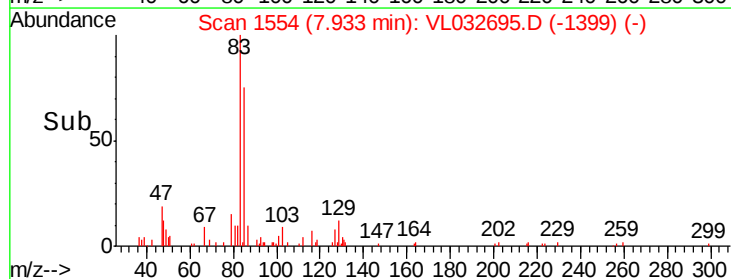
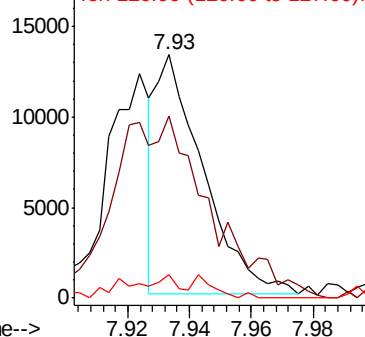
83 100

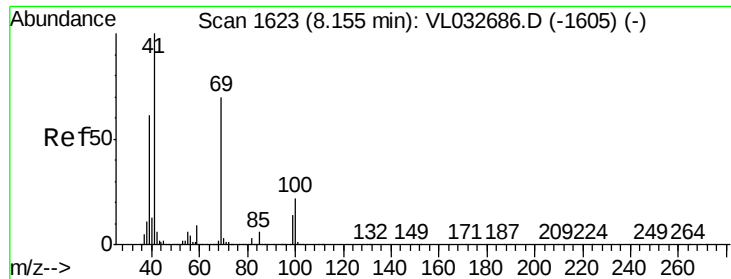
85 70.8 52.4 78.6

127 9.9 6.1 9.1#



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

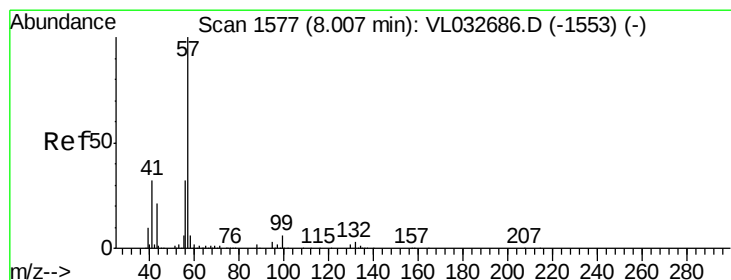
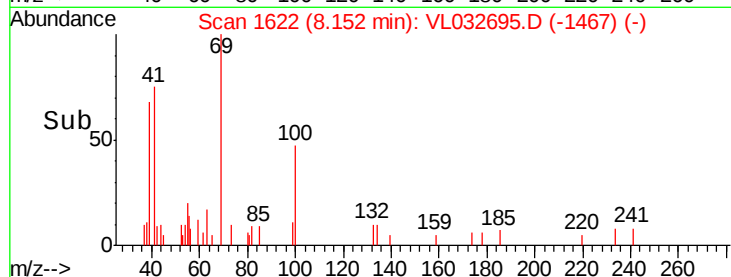
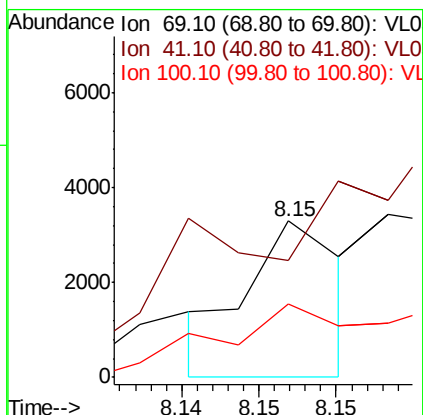
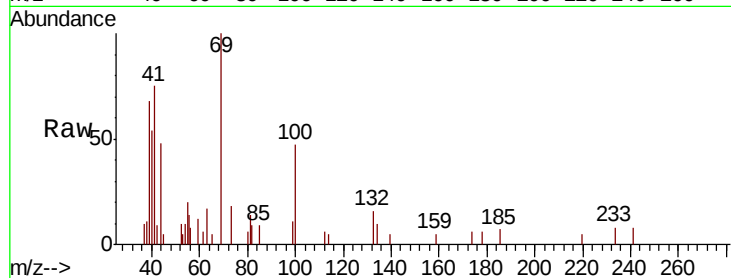




#43
Methyl Methacrylate
Concen: 0.014 ppbv
RT: 8.15 min Scan# 1622
Delta R.T. -0.00 min
Lab File: VL032695.D
Acq: 24 Oct 2018 19:54

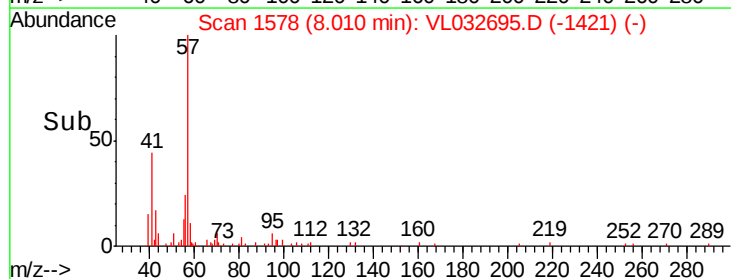
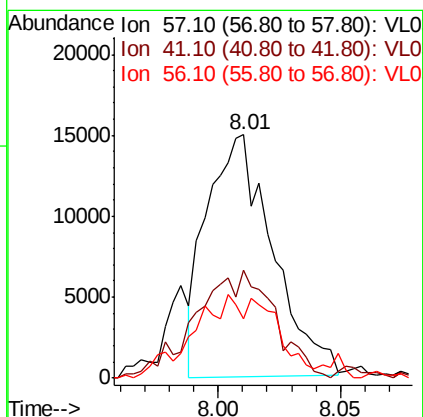
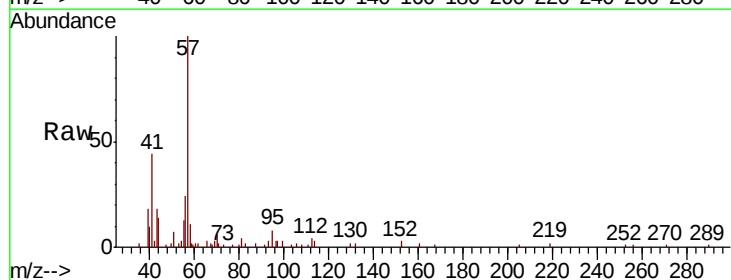
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2018 0.1 LOD

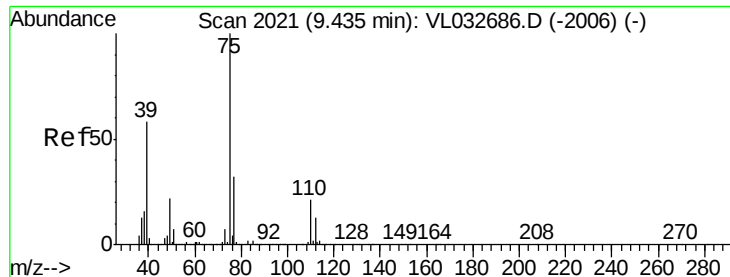
Tgt Ion: 69 Resp: 1405
Ion Ratio Lower Upper
69 100
41 0.0 113.2 169.8#
100 188.0 24.4 36.6#



#44
2,2,4-Trimethylpentane
Concen: 0.060 ppbv
RT: 8.01 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VL032695.D
Acq: 24 Oct 2018 19:54

Tgt Ion: 57 Resp: 28024
Ion Ratio Lower Upper
57 100
41 56.1 24.7 37.1#
56 46.3 25.0 37.4#





#45

t-1,3-Dichloropropene

Concen: 0.022 ppbv

RT: 9.43 min Scan# 2018

Delta R.T. -0.01 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

Instrument :

MSVOA_L

ClientSampleId :

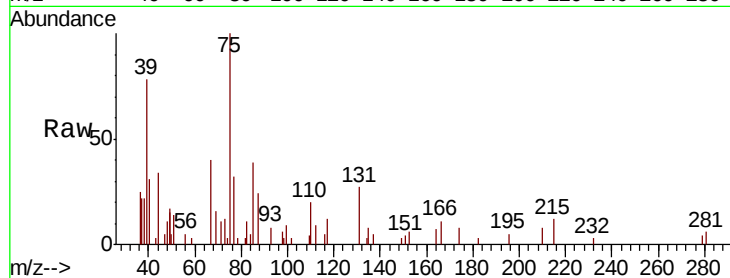
MDL-AIR-03-QT4-2018 0.1 LOD

Tgt Ion: 75 Resp: 2904

Ion Ratio Lower Upper

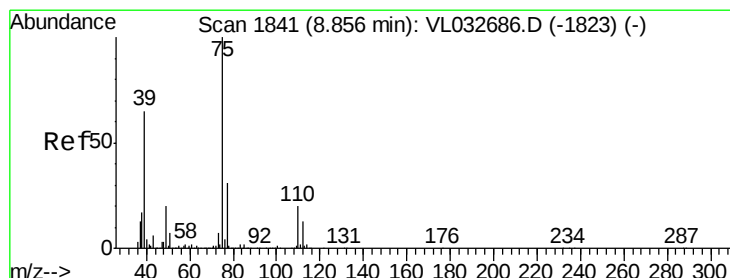
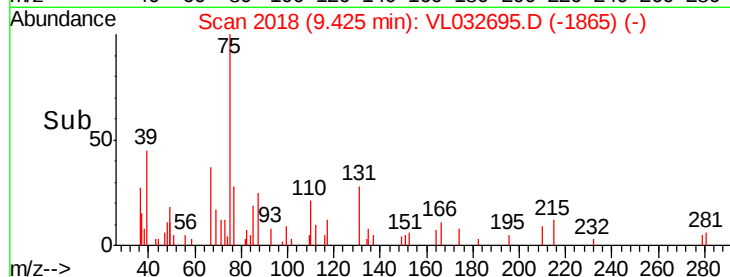
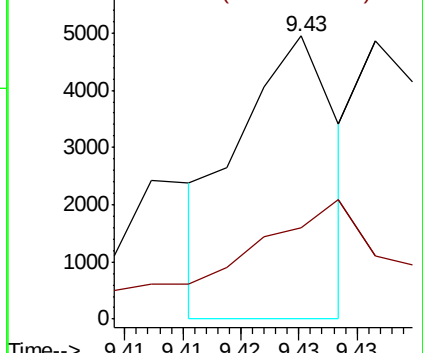
75 100

77 32.1 25.3 37.9



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: 0.020 ppbv

RT: 8.84 min Scan# 1835

Delta R.T. -0.02 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

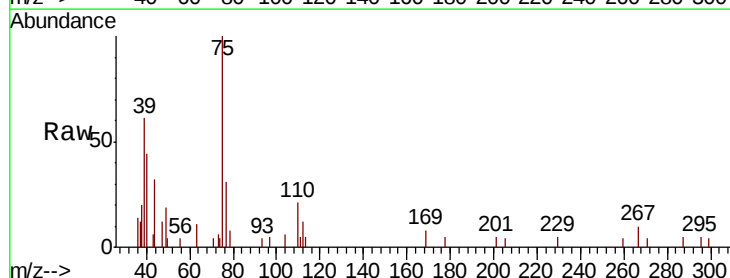
Tgt Ion: 75 Resp: 3060

Ion Ratio Lower Upper

75 100

39 61.3 50.9 76.3

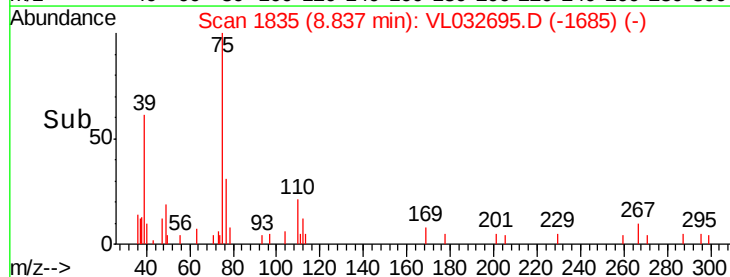
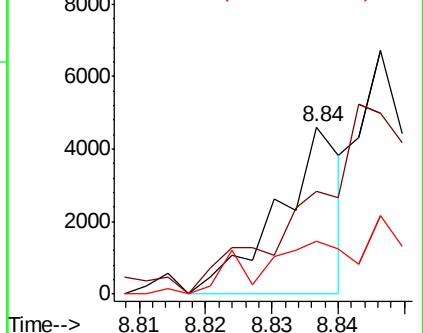
77 31.5 25.8 38.6

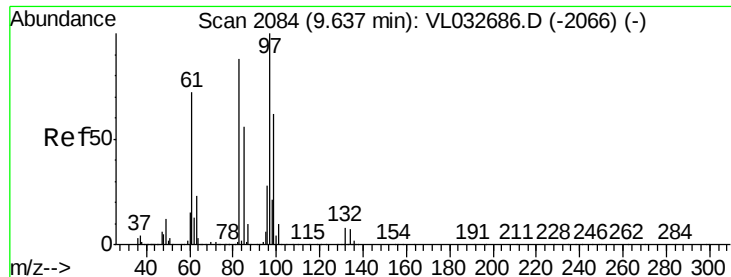


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





#47

1,1,2-Trichloroethane

Concen: 0.036 ppbv

RT: 9.63 min Scan# 2082

Delta R.T. -0.00 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT4-2018 0.1 LOD

Tgt Ion: 97 Resp: 4462

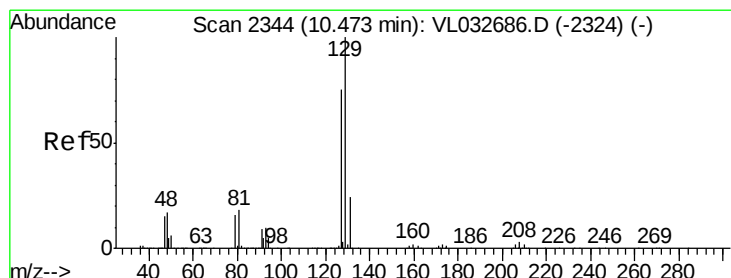
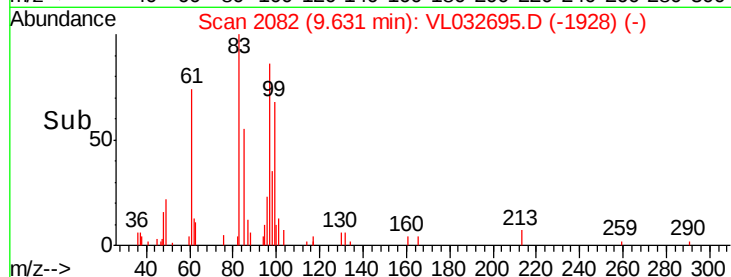
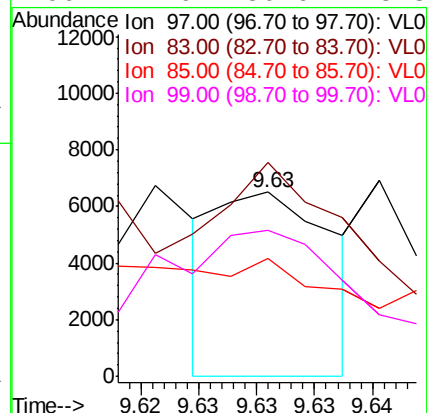
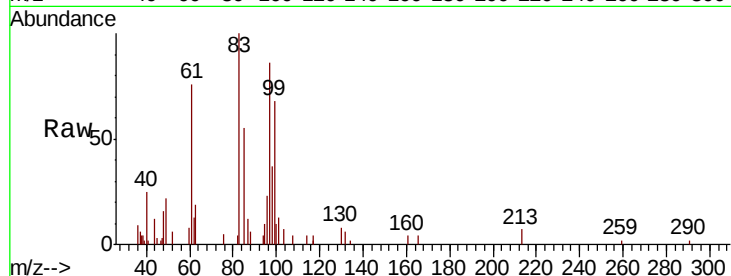
Ion Ratio Lower Upper

97 100

83 165.5 73.5 110.3#

85 71.2 45.8 68.6#

99 114.9 50.6 75.8#



#48

Dibromochloromethane

Concen: 0.037 ppbv

RT: 10.47 min Scan# 2342

Delta R.T. -0.00 min

Lab File: VL032695.D

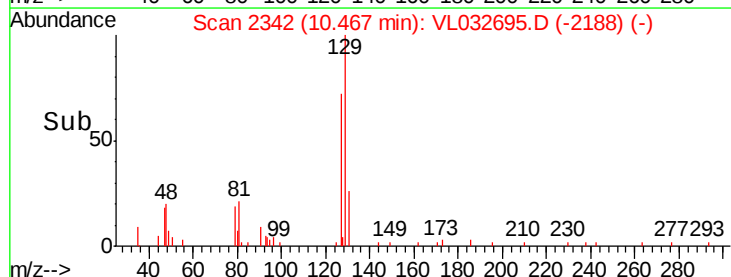
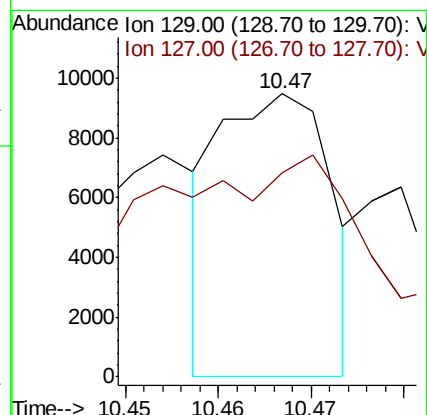
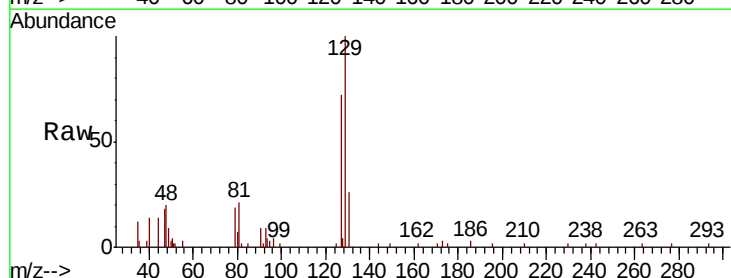
Acq: 24 Oct 2018 19:54

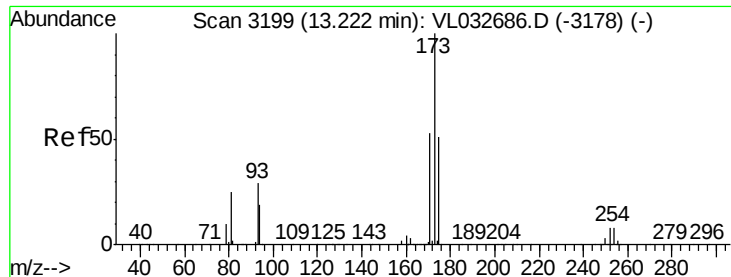
Tgt Ion: 129 Resp: 7842

Ion Ratio Lower Upper

129 100

127 202.3 39.1 117.5#





#49

Bromoform

Concen: 0.087 ppbv

RT: 13.21 min Scan# 3195

Delta R.T. -0.01 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT4-2018 0.1 LOD

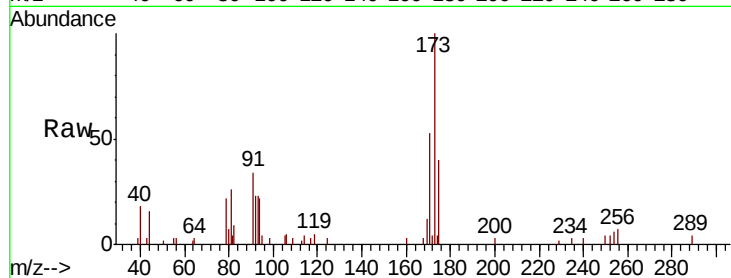
Tgt Ion:173 Resp: 14341

Ion Ratio Lower Upper

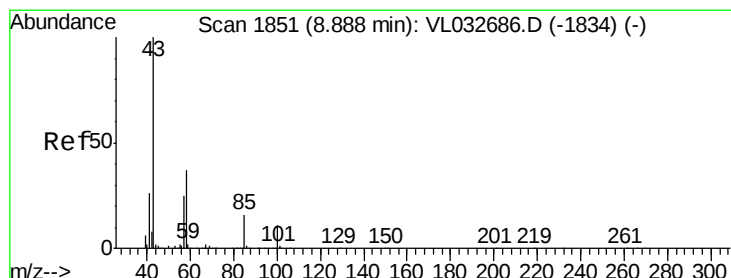
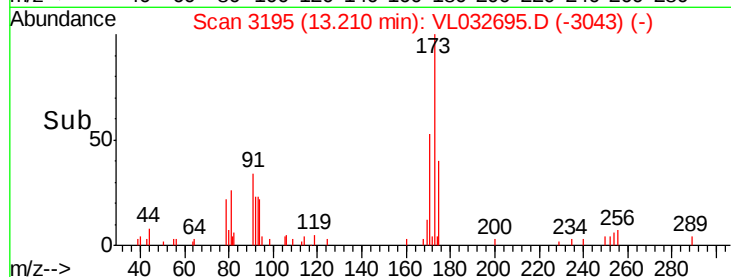
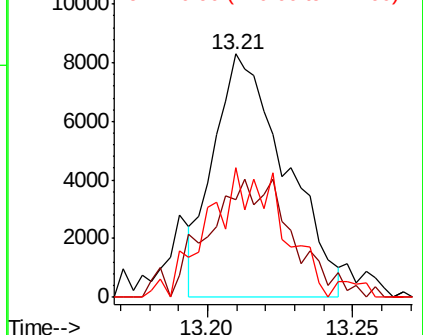
173 100

175 58.4 39.0 58.4#

171 57.0 42.2 63.2



Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 0.001 ppbv

RT: 8.88 min Scan# 1847

Delta R.T. -0.01 min

Lab File: VL032695.D

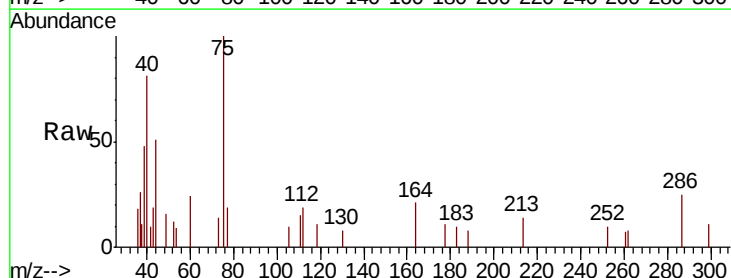
Acq: 24 Oct 2018 19:54

Tgt Ion: 43 Resp: 191

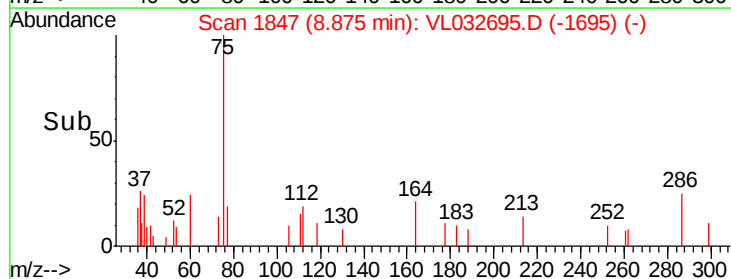
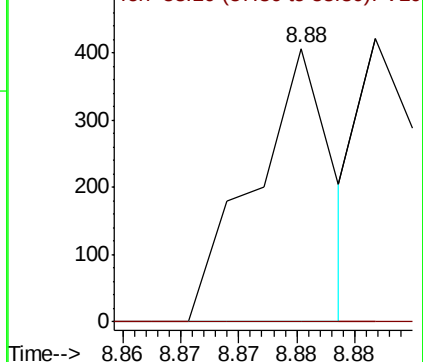
Ion Ratio Lower Upper

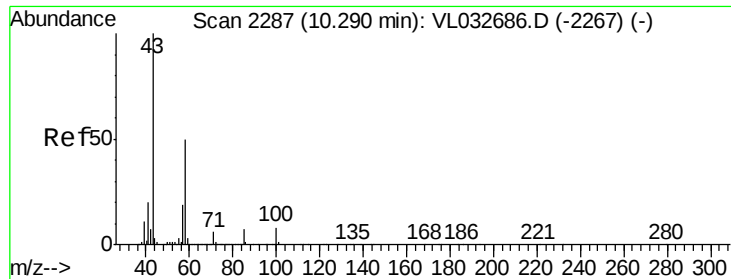
43 100

58 0.0 29.7 44.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0

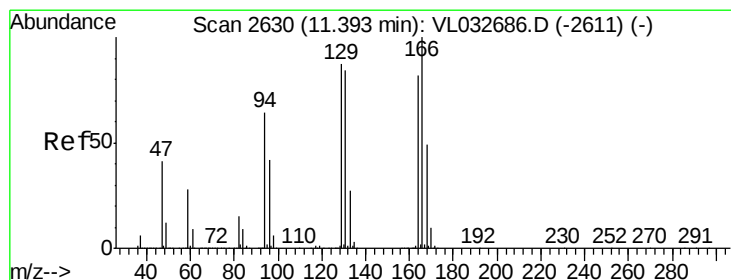
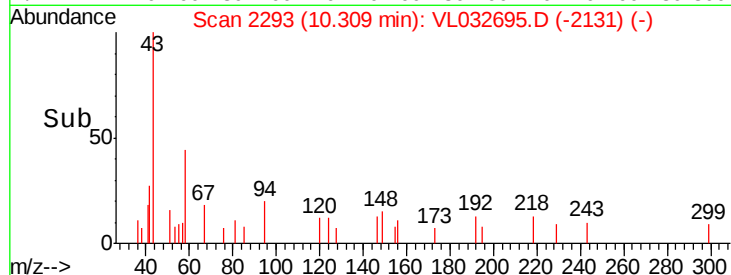
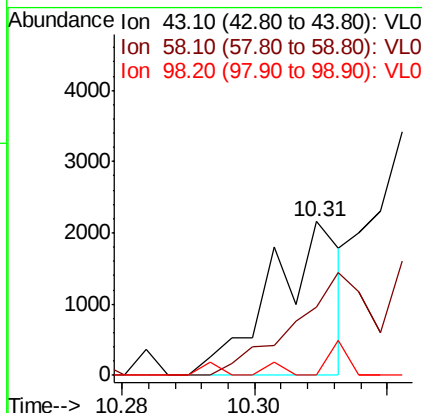
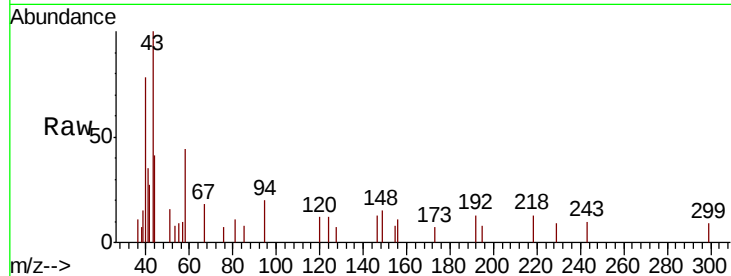




#51
2-Hexanone
Concen: 0.008 ppbv
RT: 10.31 min Scan# 2293
Delta R.T. 0.02 min
Lab File: VL032695.D
Acq: 24 Oct 2018 19:54

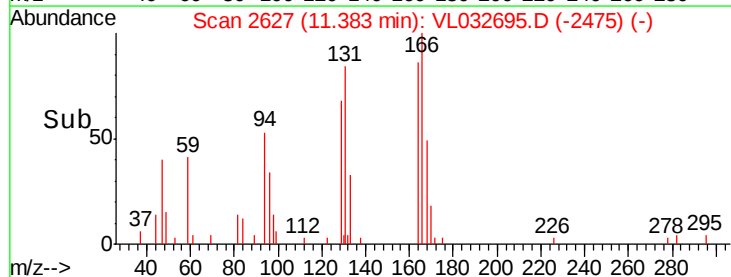
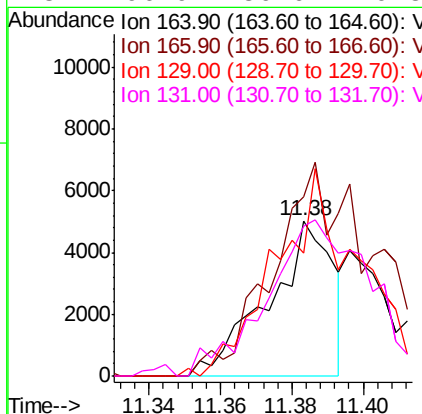
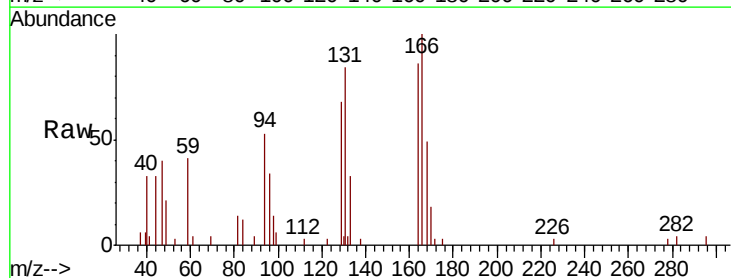
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2018 0.1 LOD

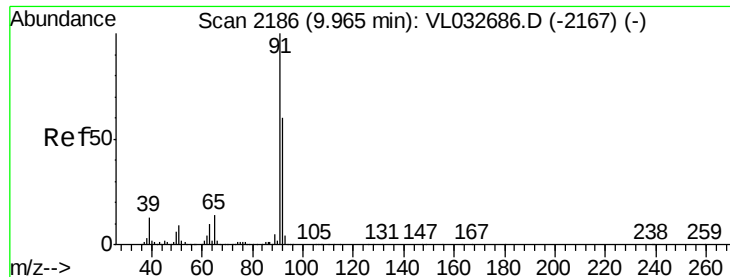
Tgt Ion: 43 Resp: 1557
Ion Ratio Lower Upper
43 100
58 0.0 40.4 60.6#
98 0.0 0.4 0.6#



#52
Tetrachloroethene
Concen: 0.065 ppbv
RT: 11.38 min Scan# 2627
Delta R.T. -0.01 min
Lab File: VL032695.D
Acq: 24 Oct 2018 19:54

Tgt Ion: 164 Resp: 6243
Ion Ratio Lower Upper
164 100
166 115.9 100.5 150.7
129 74.3 90.0 135.0#
131 96.9 86.6 129.8





#53

Toluene

Concen: 0.026 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. -0.01 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

Instrument :

MSVOA_L

ClientSampleId :

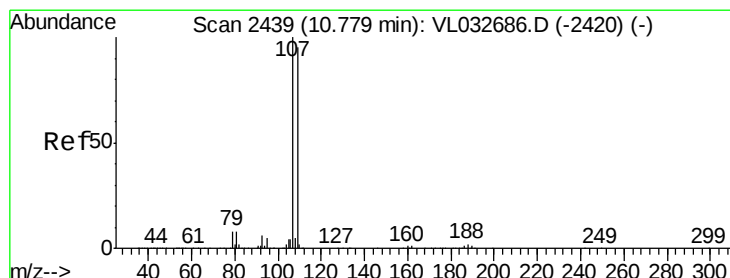
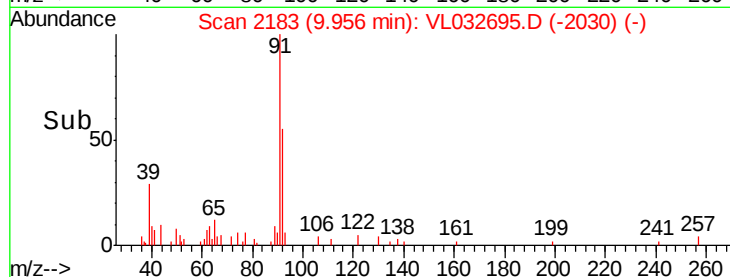
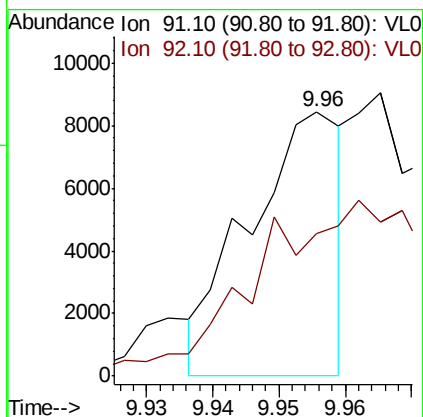
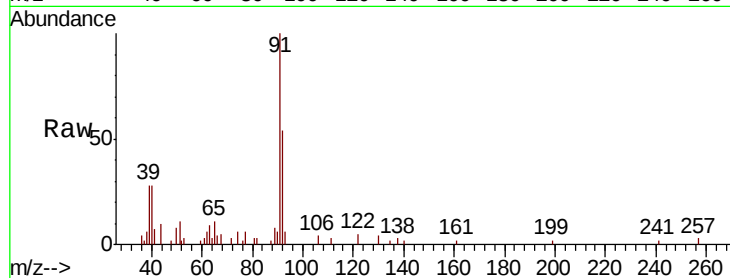
MDL-AIR-03-QT4-2018 0.1 LOD

Tgt Ion: 91 Resp: 8229

Ion Ratio Lower Upper

91 100

92 0.0 48.4 72.6#



#54

1,2-Dibromoethane

Concen: 0.094 ppbv

RT: 10.77 min Scan# 2436

Delta R.T. -0.01 min

Lab File: VL032695.D

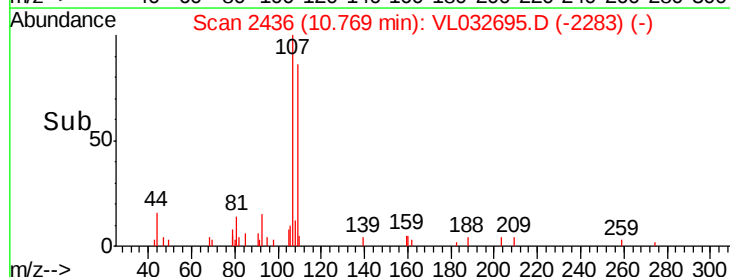
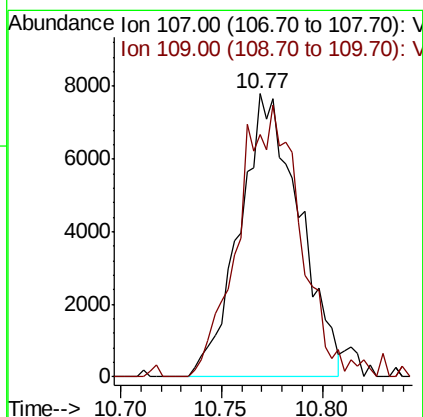
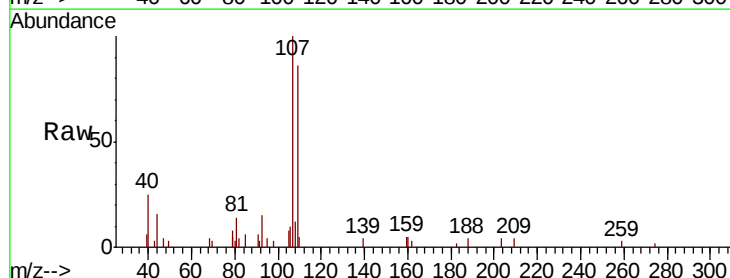
Acq: 24 Oct 2018 19:54

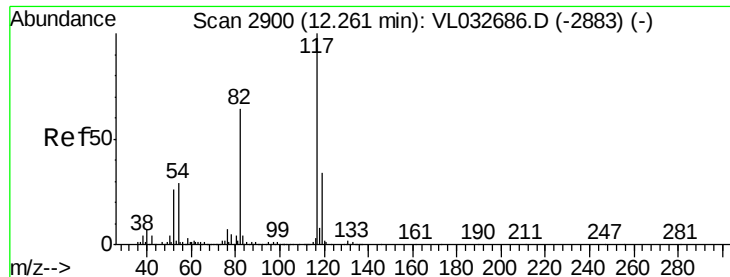
Tgt Ion: 107 Resp: 16092

Ion Ratio Lower Upper

107 100

109 85.5 75.3 112.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2898

Delta R.T. -0.00 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT4-2018 0.1 LOD

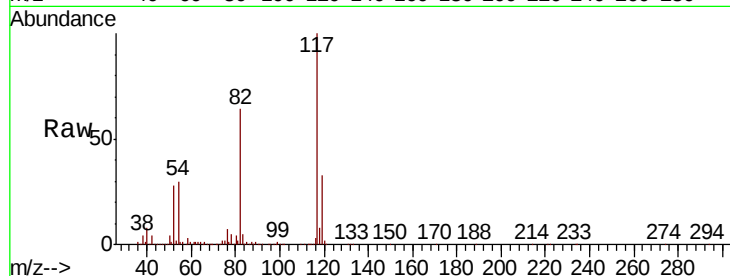
Tgt Ion:117 Resp: 3320759

Ion Ratio Lower Upper

117 100

82 64.2 52.7 79.1

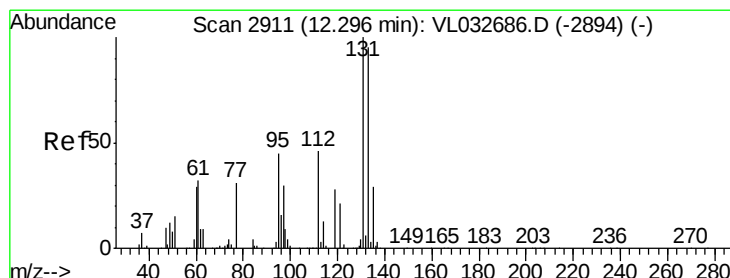
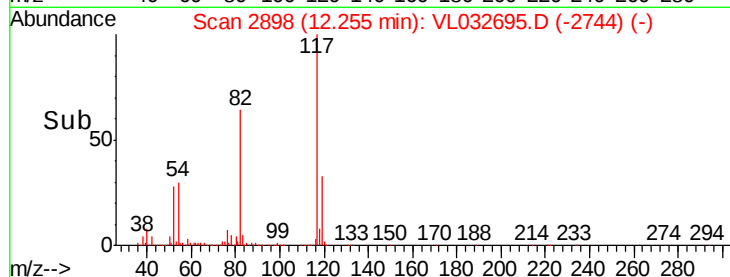
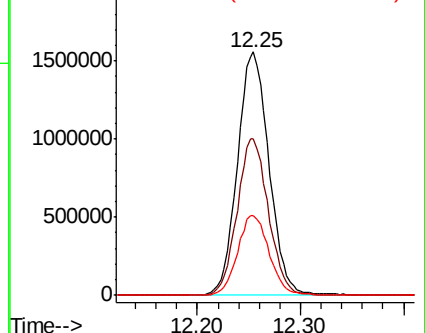
119 33.0 26.7 40.1



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 0.031 ppbv

RT: 12.29 min Scan# 2909

Delta R.T. -0.01 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

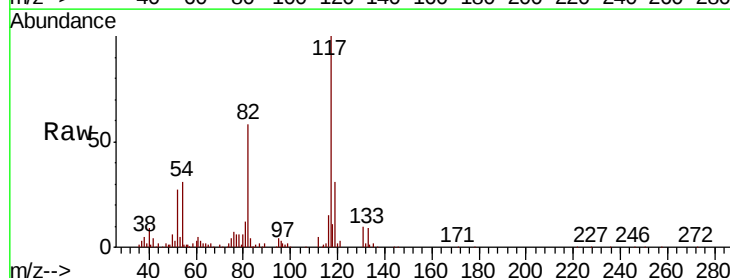
Tgt Ion:131 Resp: 4493

Ion Ratio Lower Upper

131 100

133 417.1 75.4 113.2#

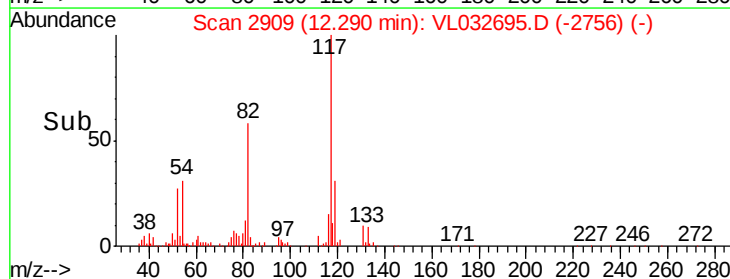
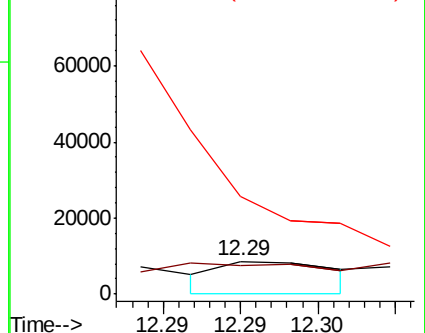
119 0.0 49.1 73.7#

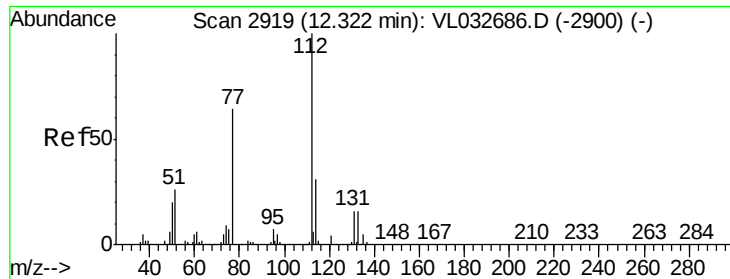


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 0.079 ppbv

RT: 12.31 min Scan# 2916

Delta R.T. -0.01 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

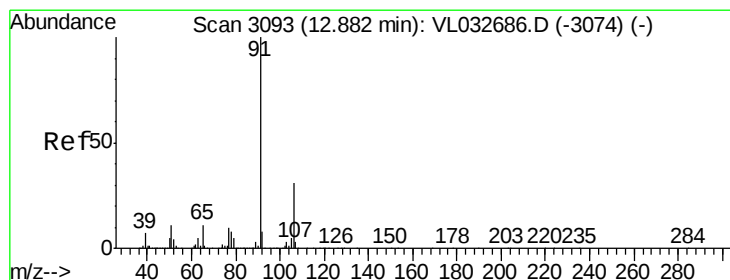
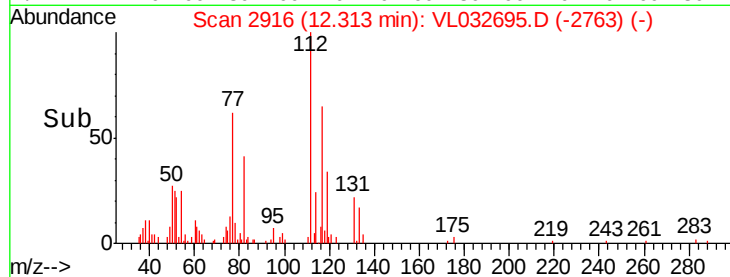
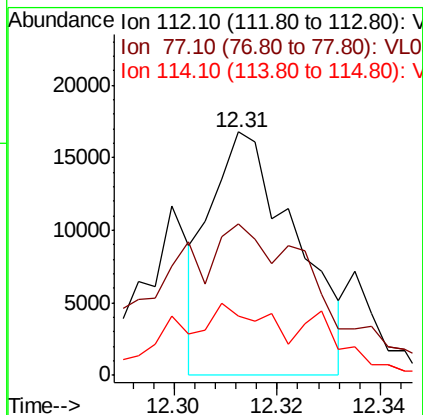
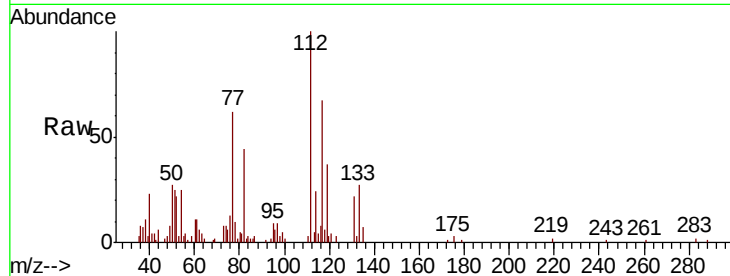
Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT4-2018 0.1 LOD

Tgt Ion:	112	Resp:	19264
Ion	Ratio	Lower	Upper
112	100		
77	66.5	56.8	85.2
114	26.9	30.3	37.1#



#58

Ethyl Benzene

Concen: 0.051 ppbv

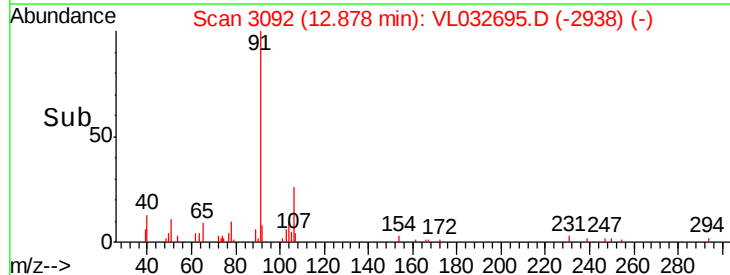
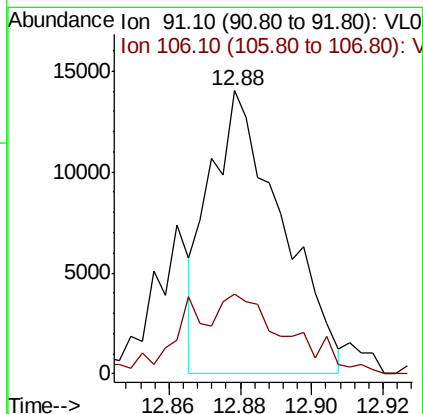
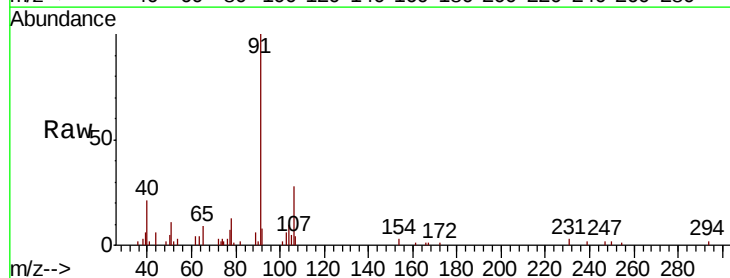
RT: 12.88 min Scan# 3092

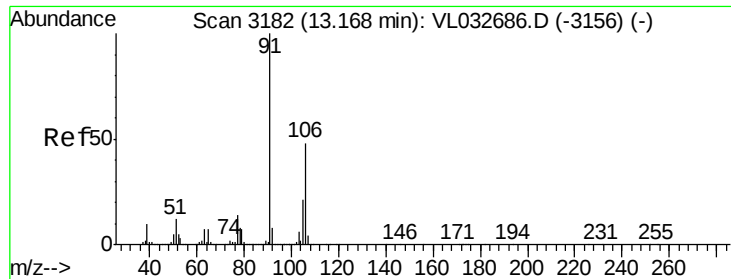
Delta R.T. -0.00 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

Tgt Ion:	91	Resp:	19630
Ion	Ratio	Lower	Upper
91	100		
106	31.8	24.2	36.2

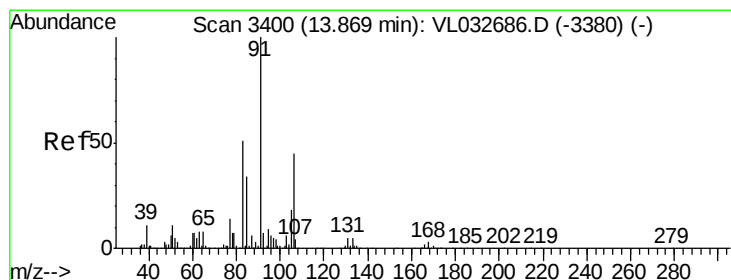
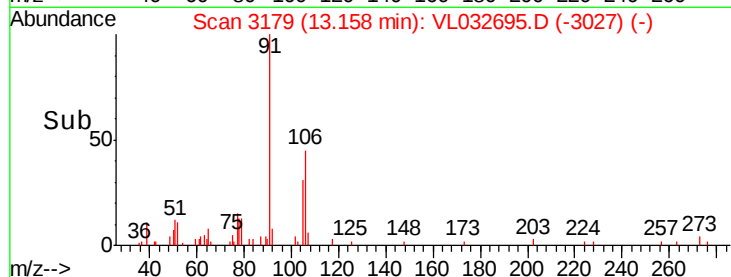
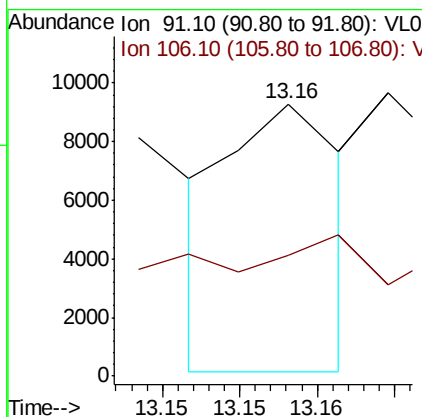
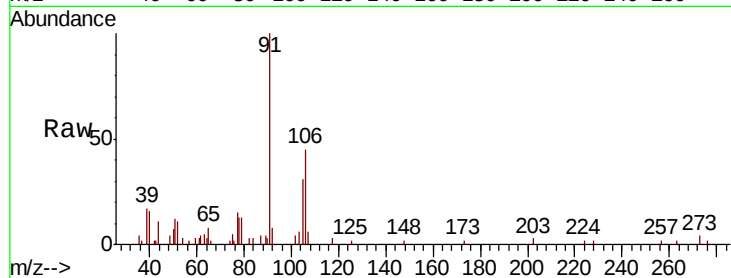




#59
m/p-Xylene
Concen: 0.014 ppbv
RT: 13.16 min Scan# 3179
Delta R.T. -0.01 min
Lab File: VL032695.D
Acq: 24 Oct 2018 19:54

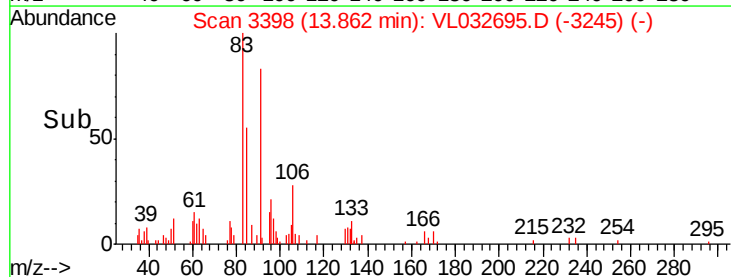
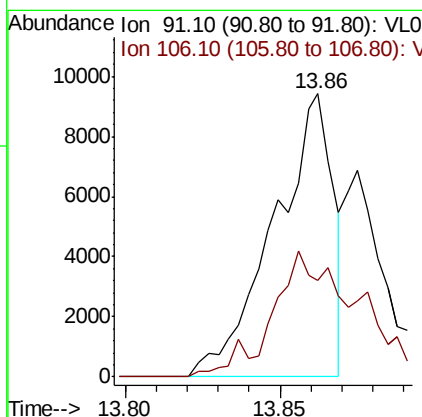
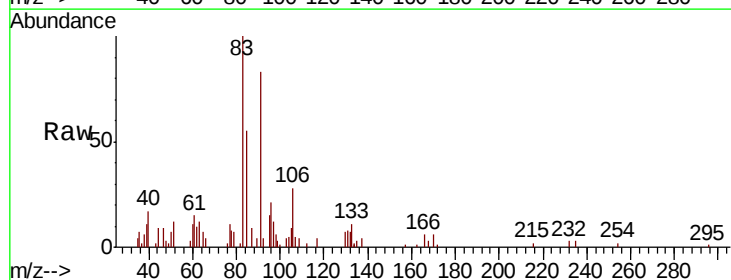
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2018 0.1 LOD

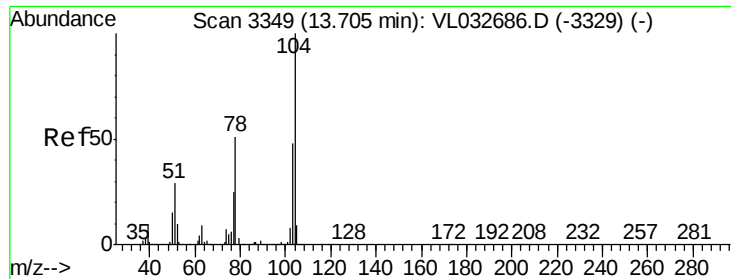
Tgt Ion: 91 Resp: 4671
Ion Ratio Lower Upper
91 100
106 0.0 35.9 53.9#



#60
o-Xylene
Concen: 0.038 ppbv
RT: 13.86 min Scan# 3398
Delta R.T. -0.01 min
Lab File: VL032695.D
Acq: 24 Oct 2018 19:54

Tgt Ion: 91 Resp: 12549
Ion Ratio Lower Upper
91 100
106 65.7 22.1 66.1





#61

Styrene

Concen: 0.015 ppbv

RT: 13.70 min Scan# 3349

Delta R.T. 0.00 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

Instrument :

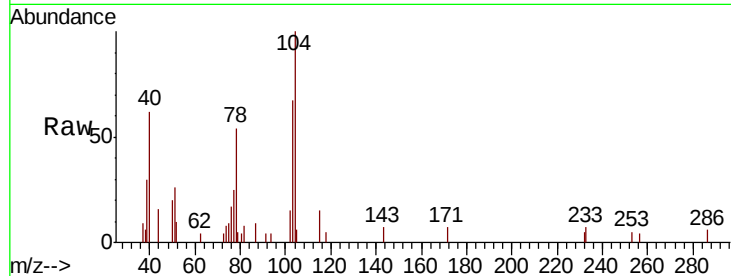
MSVOA_L

ClientSampleId :

MDL-AIR-03-QT4-2018 0.1 LOD

Tgt Ion:104 Resp: 3293

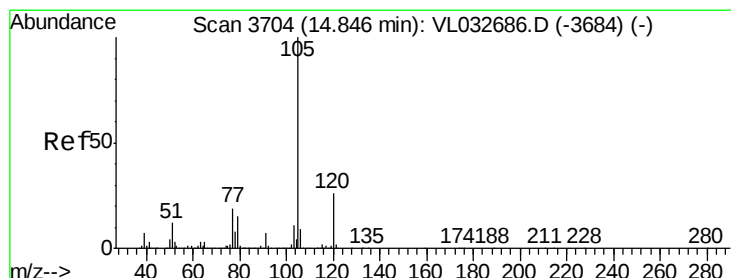
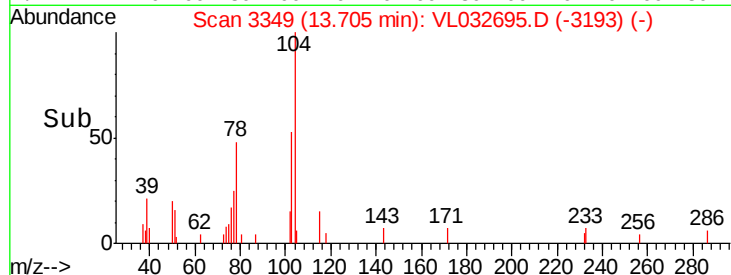
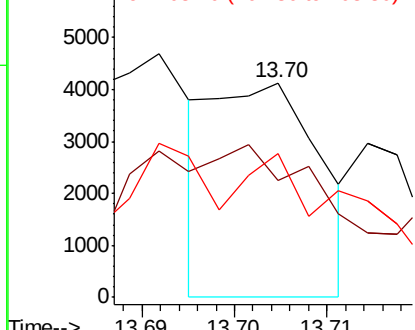
Ion	Ratio	Lower	Upper
104	100		
78	204.9	42.8	64.2#
103	0.0	37.4	56.0#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.041 ppbv

RT: 14.84 min Scan# 3702

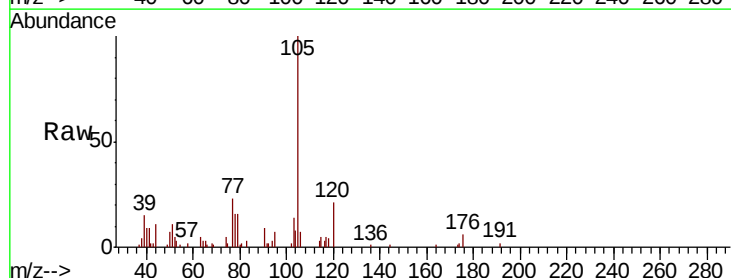
Delta R.T. -0.00 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

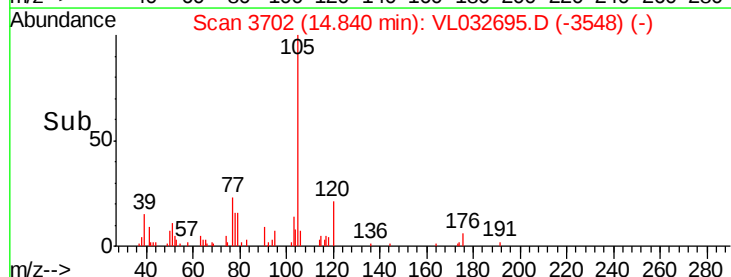
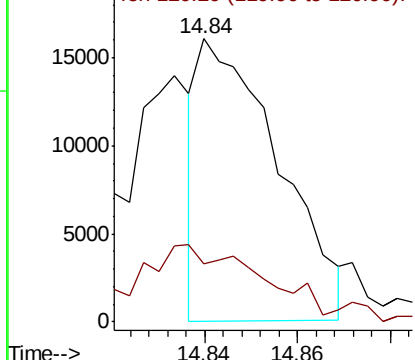
Tgt Ion:105 Resp: 19176

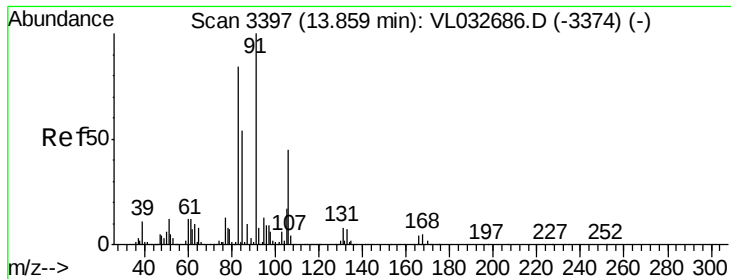
Ion	Ratio	Lower	Upper
105	100		
120	46.9	20.5	30.7#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

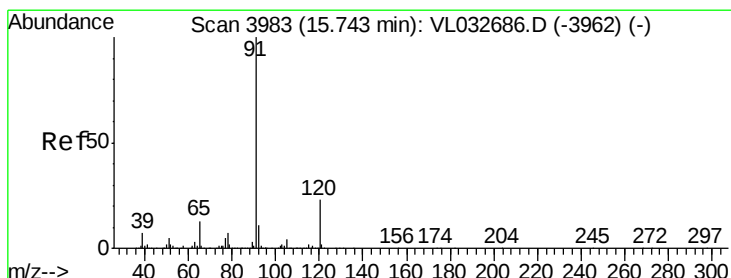
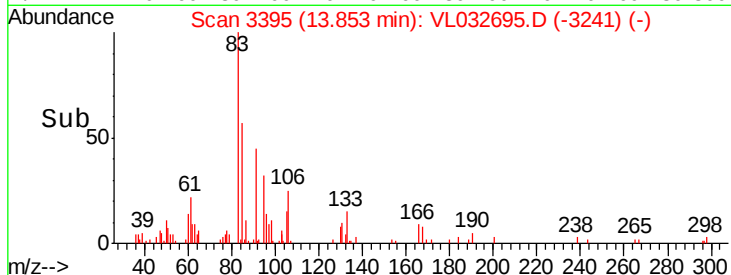
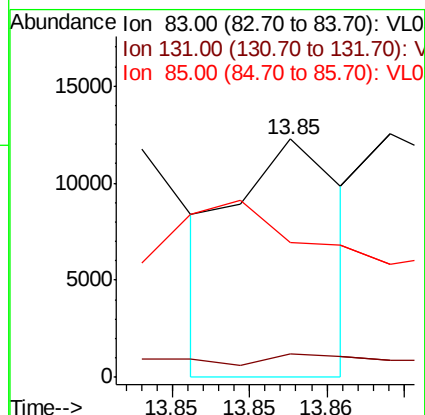
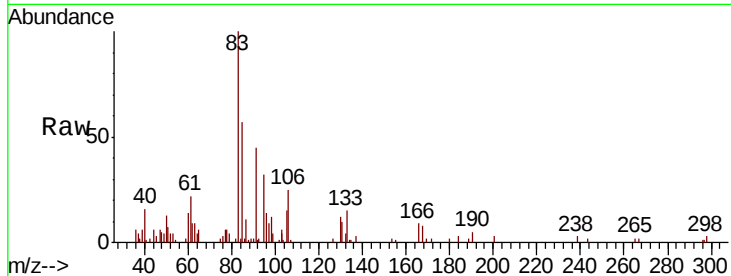




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.023 ppbv
 RT: 13.85 min Scan# 3395
 Delta R.T. -0.00 min
 Lab File: VL032695.D
 Acq: 24 Oct 2018 19:54

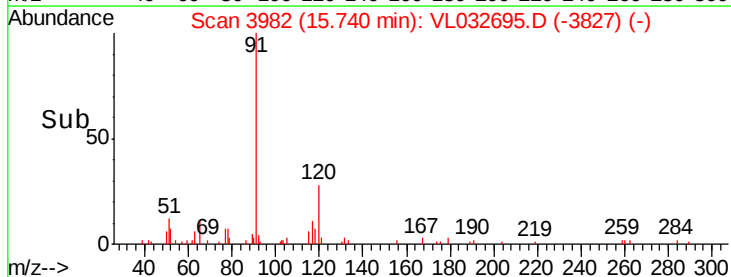
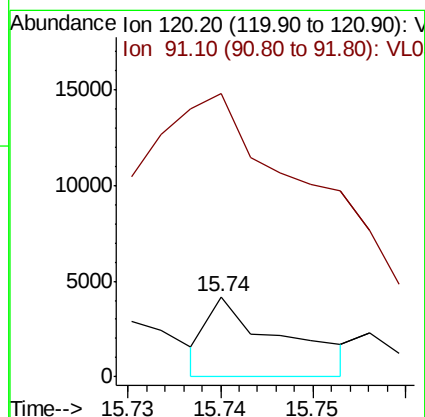
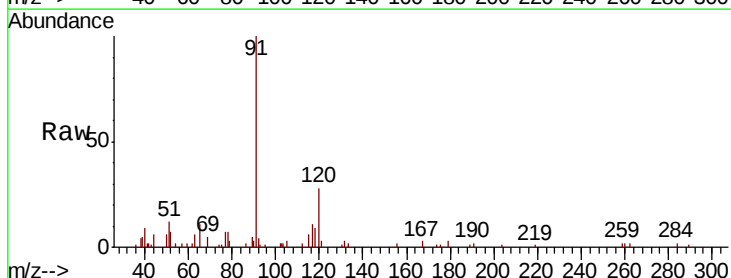
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT4-2018 0.1 LOD

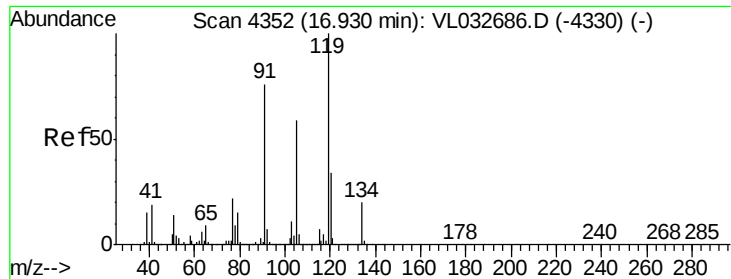
Tgt Ion: 83 Resp: 5983
 Ion Ratio Lower Upper
 83 100
 131 0.0 4.3 12.9#
 85 335.0 32.3 96.9#



#64
 n-propylbenzene
 Concen: 0.020 ppbv
 RT: 15.74 min Scan# 3982
 Delta R.T. -0.00 min
 Lab File: VL032695.D
 Acq: 24 Oct 2018 19:54

Tgt Ion: 120 Resp: 2355
 Ion Ratio Lower Upper
 120 100
 91 1404.5 390.2 585.2#





#65

tert-Butylbenzene

Concen: 0.030 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. -0.00 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT4-2018 0.1 LOD

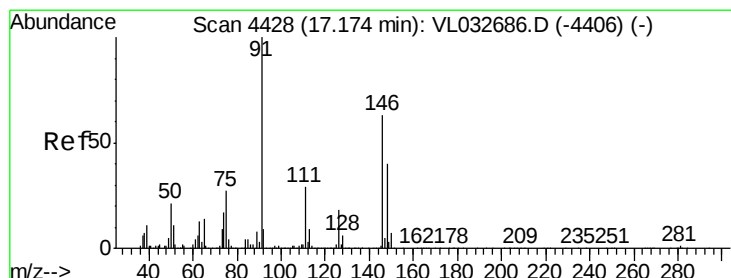
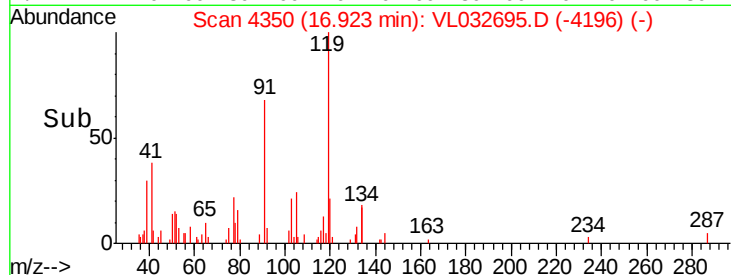
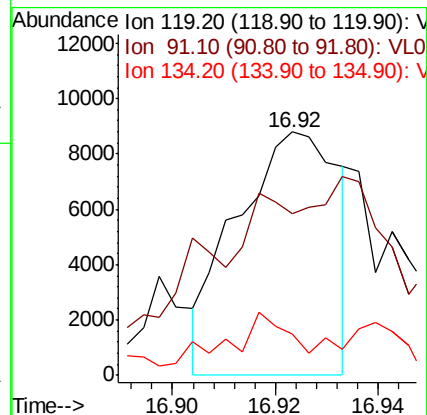
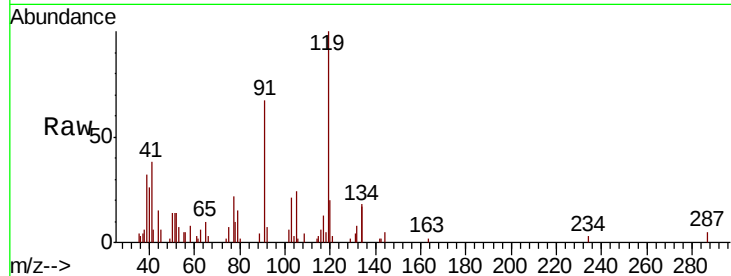
Tgt Ion: 119 Resp: 12069

Ion Ratio Lower Upper

119 100

91 0.0 67.8 101.8#

134 37.2 15.8 23.8#



#66

Benzyl Chloride

Concen: 0.033 ppbv

RT: 17.17 min Scan# 4427

Delta R.T. -0.00 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

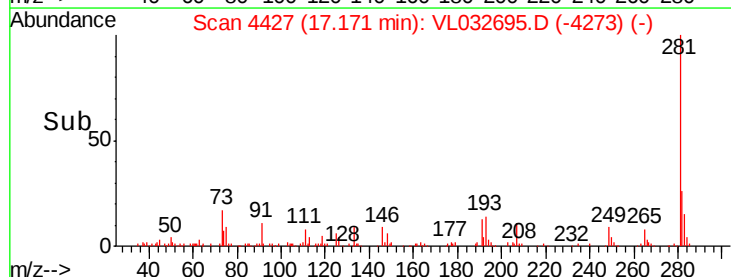
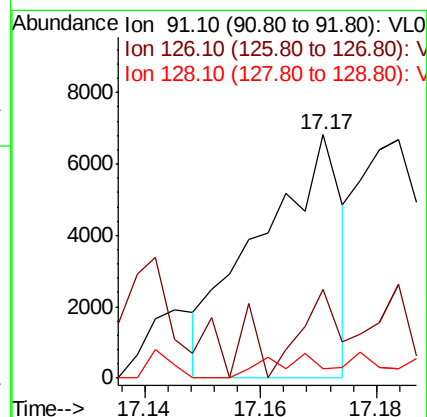
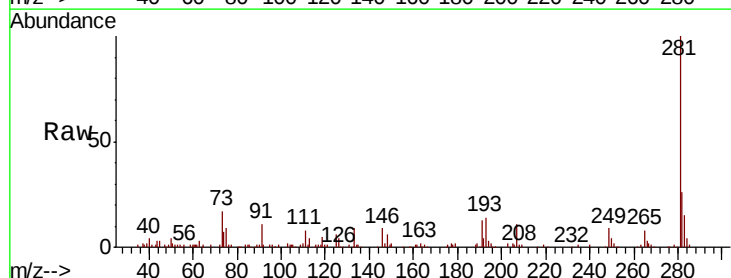
Tgt Ion: 91 Resp: 6728

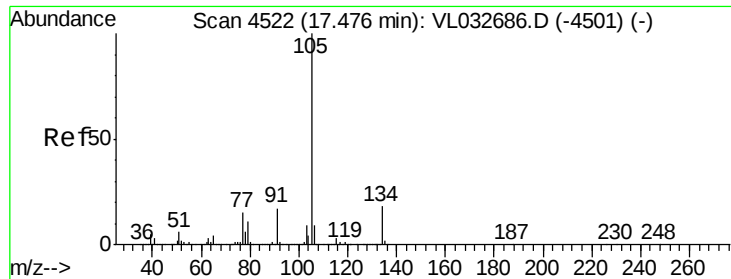
Ion Ratio Lower Upper

91 100

126 0.0 13.9 20.9#

128 15.9 4.3 6.5#

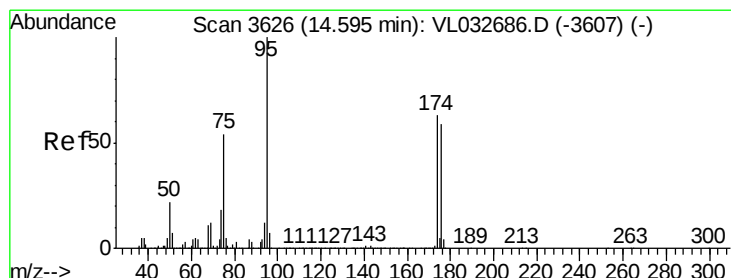
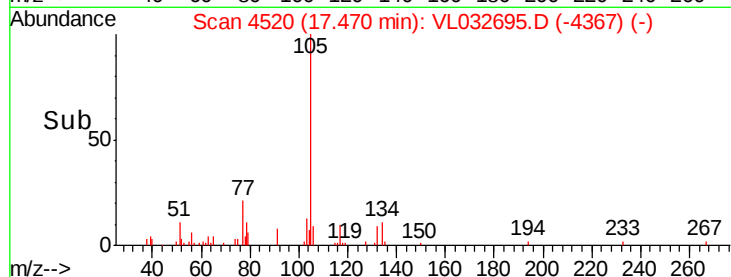
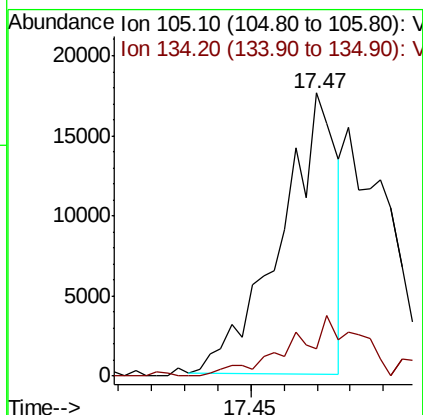
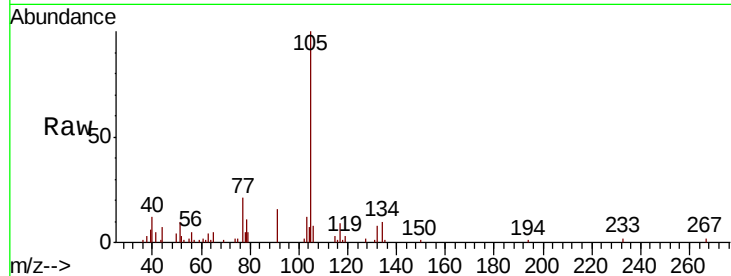




#67
 sec-Butylbenzene
 Concen: 0.036 ppbv
 RT: 17.47 min Scan# 4520
 Delta R.T. -0.01 min
 Lab File: VL032695.D
 Acq: 24 Oct 2018 19:54

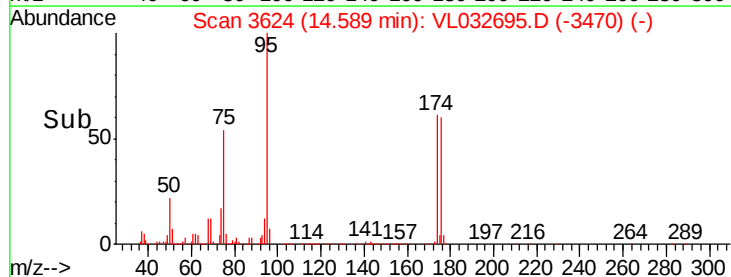
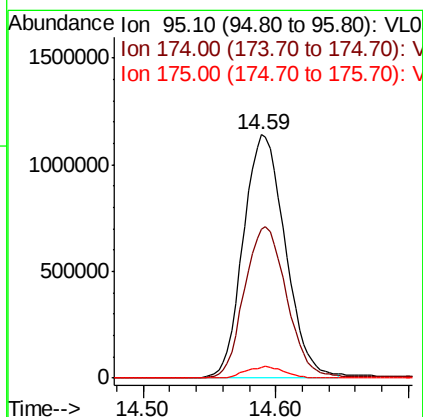
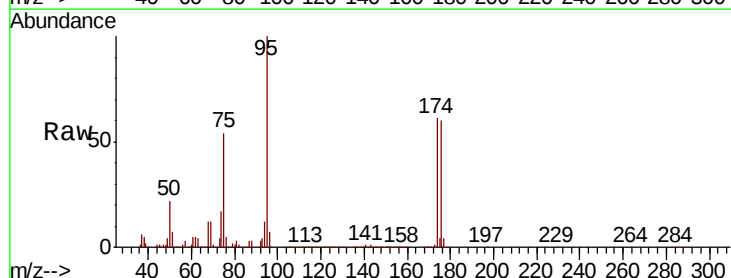
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT4-2018 0.1 LOD

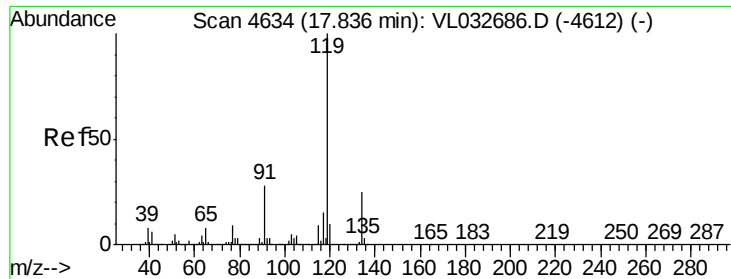
Tgt Ion: 105 Resp: 20716
 Ion Ratio Lower Upper
 105 100
 134 30.6 14.2 21.2#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.159 ppbv
 RT: 14.59 min Scan# 3624
 Delta R.T. -0.00 min
 Lab File: VL032695.D
 Acq: 24 Oct 2018 19:54

Tgt Ion: 95 Resp: 2511780
 Ion Ratio Lower Upper
 95 100
 174 63.9 46.0 69.0
 175 4.6 3.4 5.0

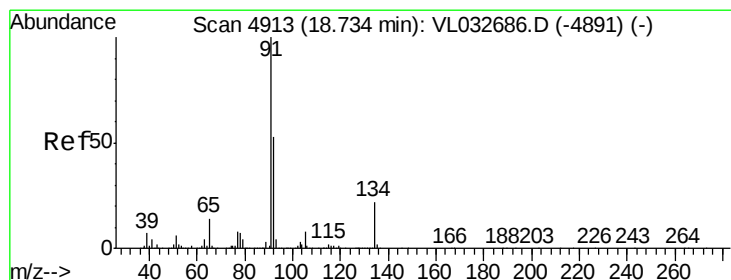
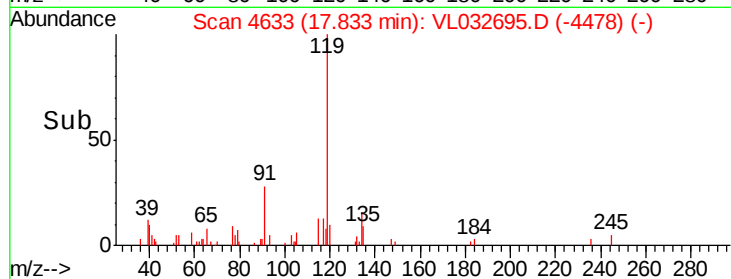
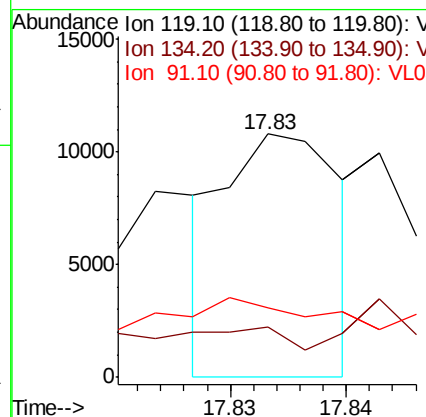
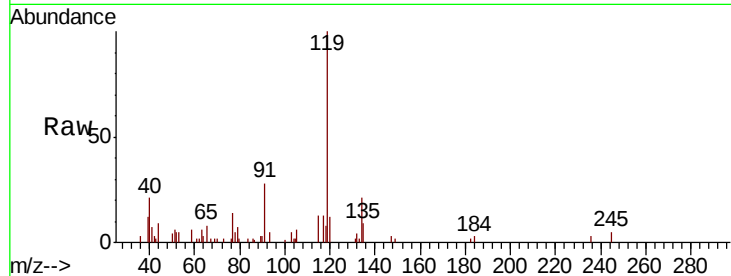




#69
 p-Isopropyltoluene
 Concen: 0.016 ppbv
 RT: 17.83 min Scan# 4633
 Delta R.T. -0.00 min
 Lab File: VL032695.D
 Acq: 24 Oct 2018 19:54

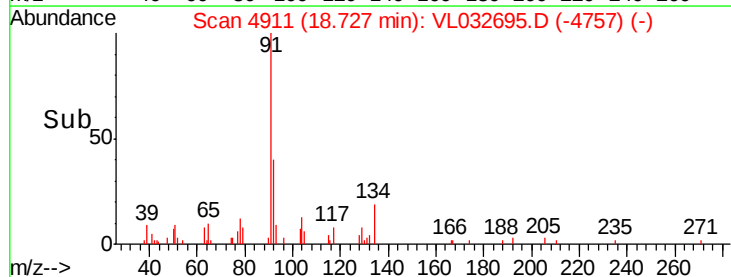
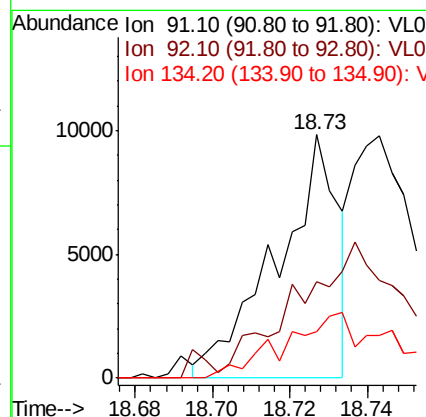
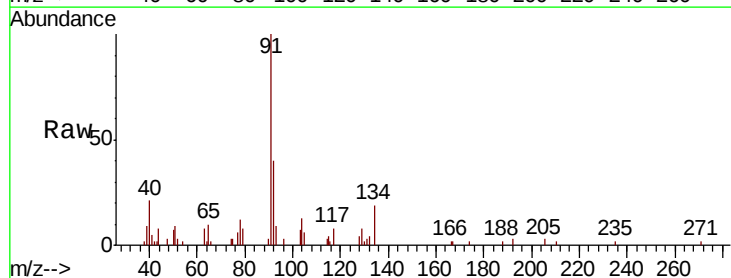
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT4-2018 0.1 LOD

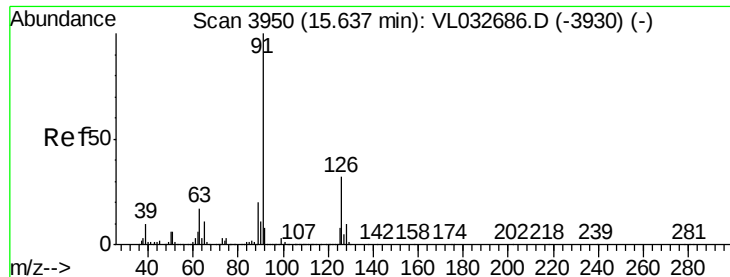
Tgt Ion	Ratio	Lower	Upper
119	100		
134	0.0	20.2	30.2#
91	124.4	24.0	36.0#



#70
 n-Butylbenzene
 Concen: 0.023 ppbv
 RT: 18.73 min Scan# 4911
 Delta R.T. -0.00 min
 Lab File: VL032695.D
 Acq: 24 Oct 2018 19:54

Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	43.0	64.4#
134	0.0	17.0	25.6#

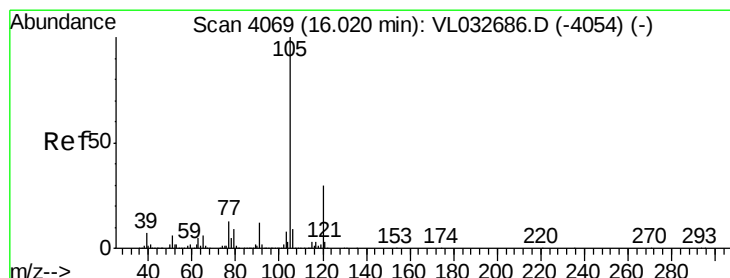
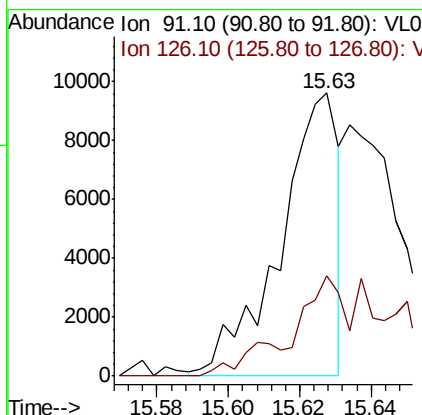
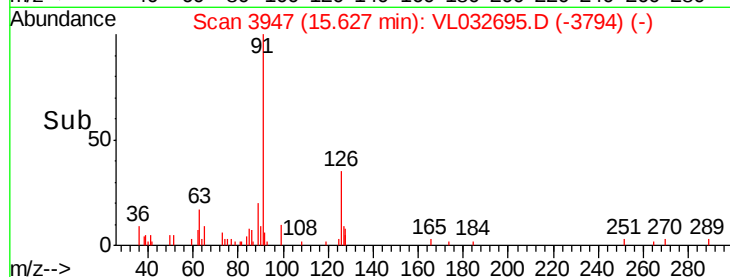
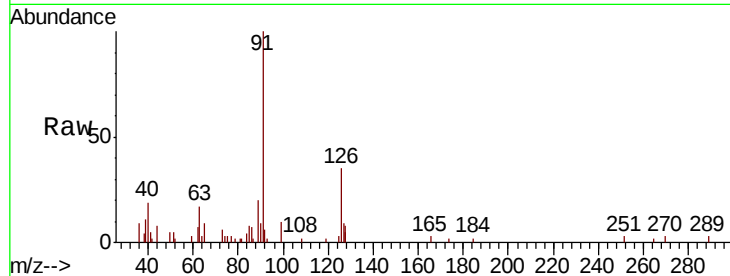




#71
2-Chlorotoluene
Concen: 0.033 ppbv
RT: 15.63 min Scan# 3947
Delta R.T. -0.01 min
Lab File: VL032695.D
Acq: 24 Oct 2018 19:54

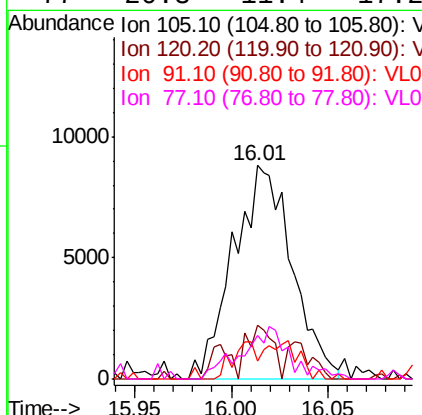
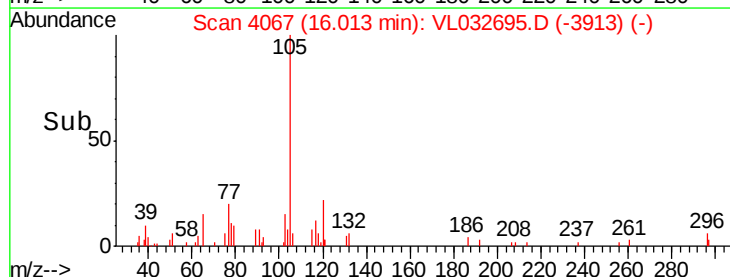
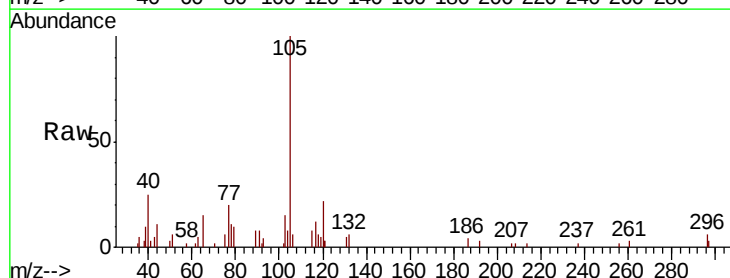
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2018 0.1 LOD

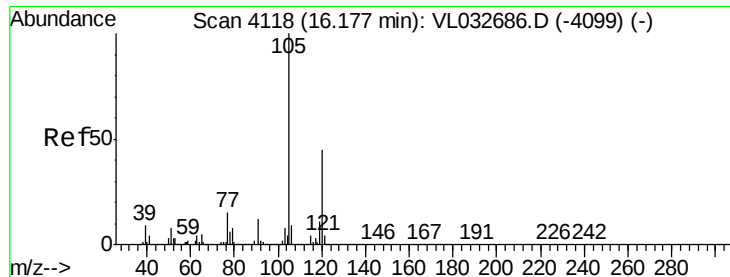
Tgt Ion: 91 Resp: 10910
Ion Ratio Lower Upper
91 100
126 60.9 11.8 47.4#



#72
4-Ethyltoluene
Concen: 0.053 ppbv
RT: 16.01 min Scan# 4067
Delta R.T. -0.00 min
Lab File: VL032695.D
Acq: 24 Oct 2018 19:54

Tgt Ion: 105 Resp: 18558
Ion Ratio Lower Upper
105 100
120 23.7 23.7 35.5
91 17.3 10.4 15.6#
77 20.3 11.4 17.2#





#73

1,3,5-Trimethylbenzene

Concen: 0.015 ppbv

RT: 16.17 min Scan# 4117

Delta R.T. -0.00 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

Instrument :

MSVOA_L

ClientSampleId :

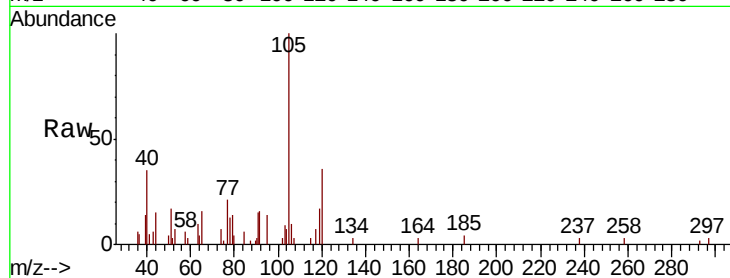
MDL-AIR-03-QT4-2018 0.1 LOD

Tgt Ion:105 Resp: 5156

Ion Ratio Lower Upper

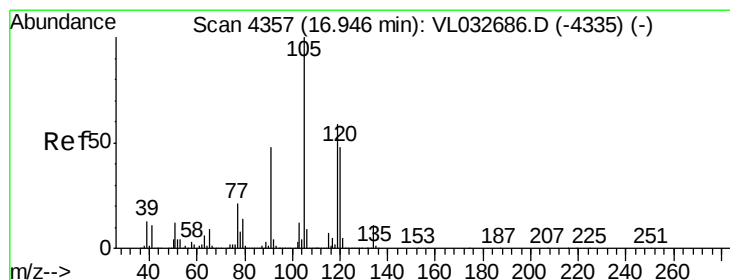
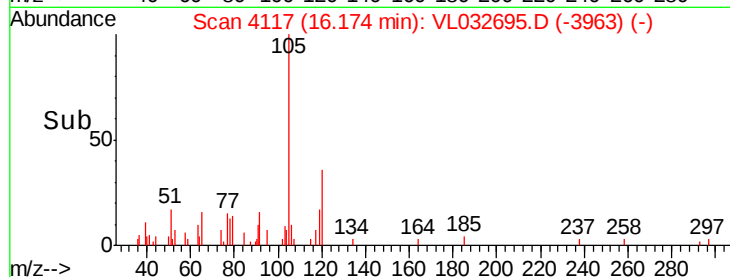
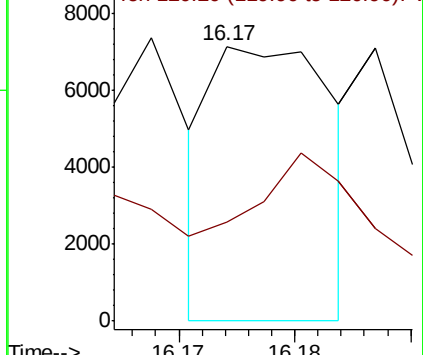
105 100

120 17.0 35.4 53.2#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.033 ppbv

RT: 16.94 min Scan# 4354

Delta R.T. -0.01 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

Tgt Ion:105 Resp: 12120

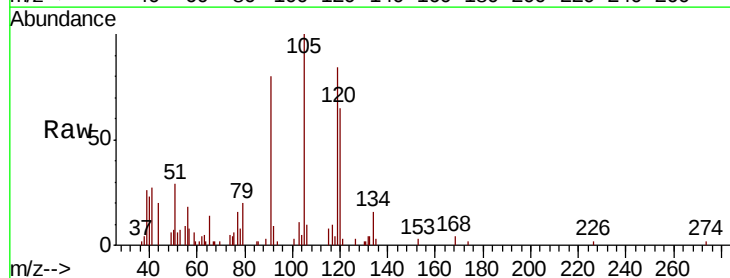
Ion Ratio Lower Upper

105 100

120 54.7 35.8 53.8#

91 59.9 33.2 49.8#

77 0.0 16.2 24.4#

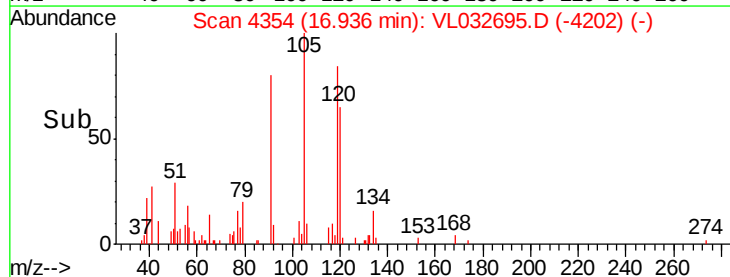
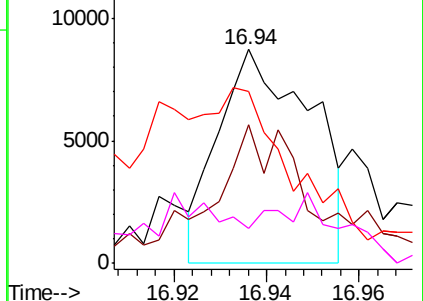


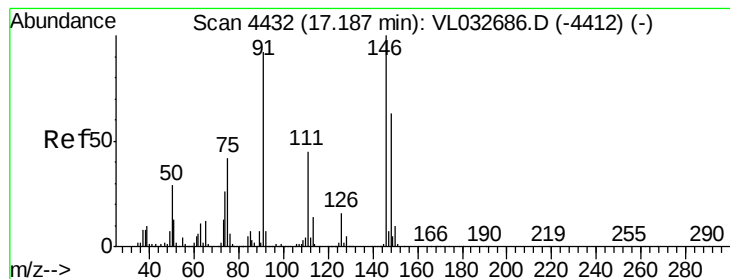
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 0.063 ppbv

RT: 17.19 min Scan# 4432

Delta R.T. 0.00 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT4-2018 0.1 LOD

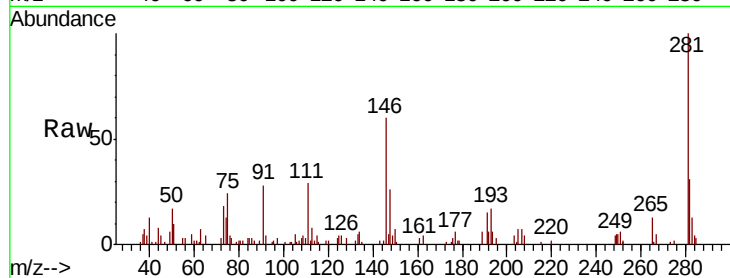
Tgt Ion:146 Resp: 13206

Ion Ratio Lower Upper

146 100

111 131.5 24.4 73.2#

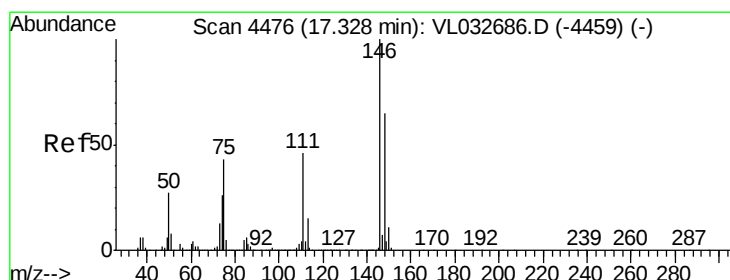
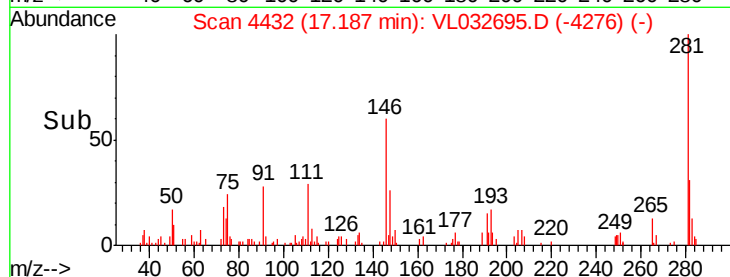
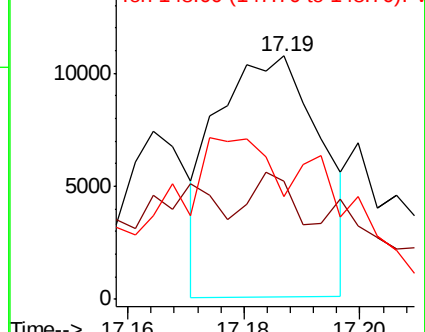
148 0.0 31.9 95.9#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 0.011 ppbv

RT: 17.33 min Scan# 4477

Delta R.T. 0.00 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

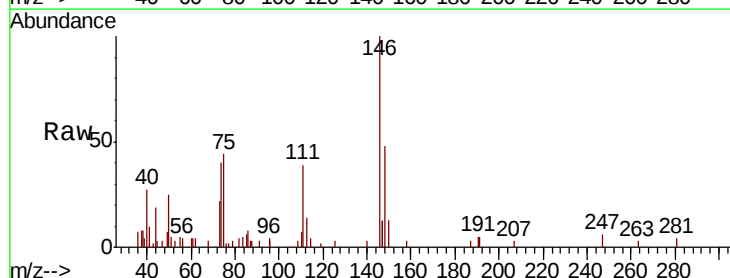
Tgt Ion:146 Resp: 2156

Ion Ratio Lower Upper

146 100

111 404.2 23.7 71.1#

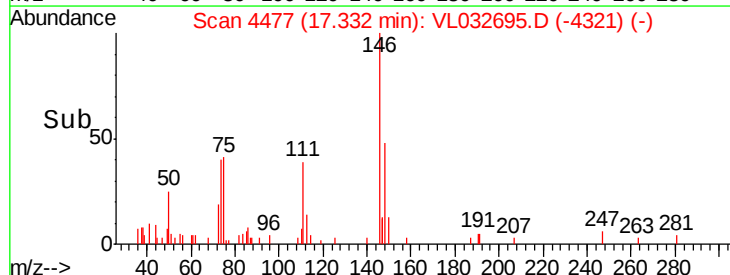
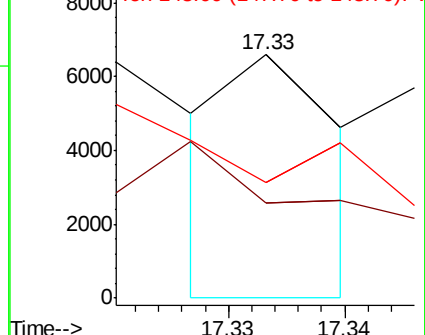
148 542.4 32.1 96.3#

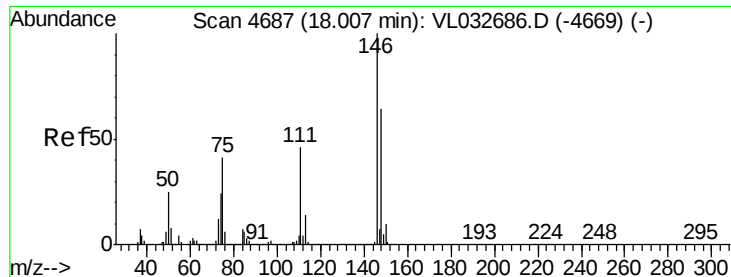


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

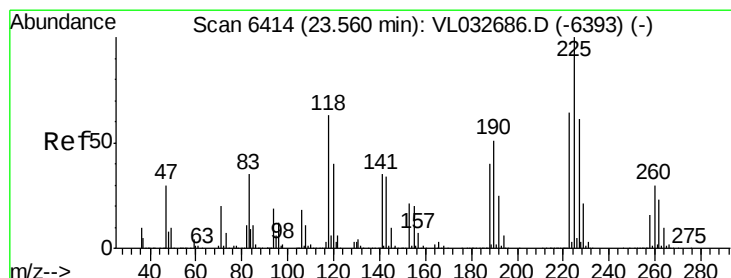
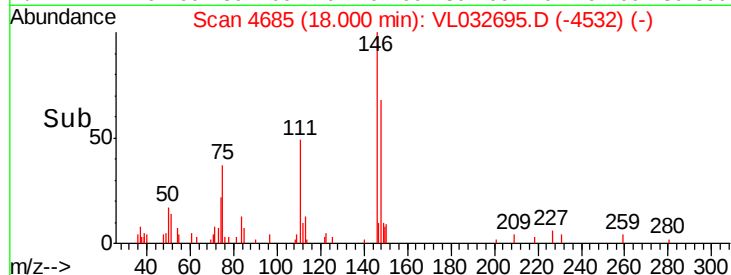
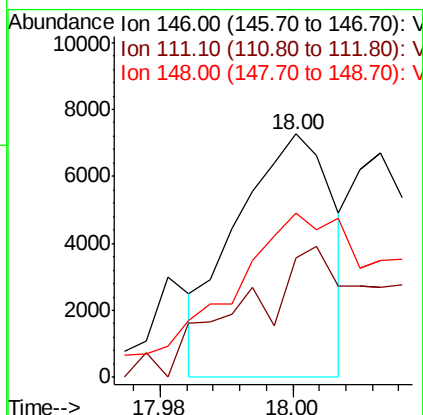
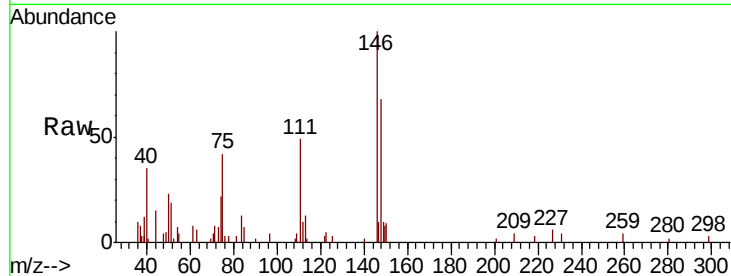




#77
 1,2-Dichlorobenzene
 Concen: 0.037 ppbv
 RT: 18.00 min Scan# 4685
 Delta R.T. -0.01 min
 Lab File: VL032695.D
 Acq: 24 Oct 2018 19:54

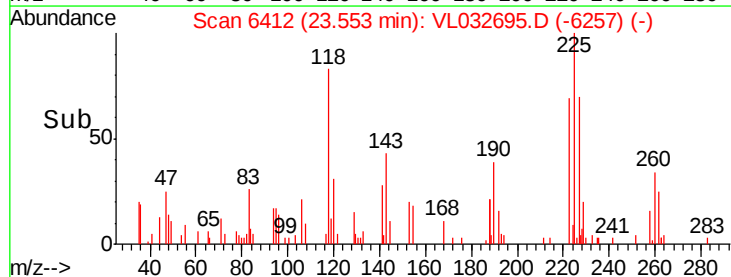
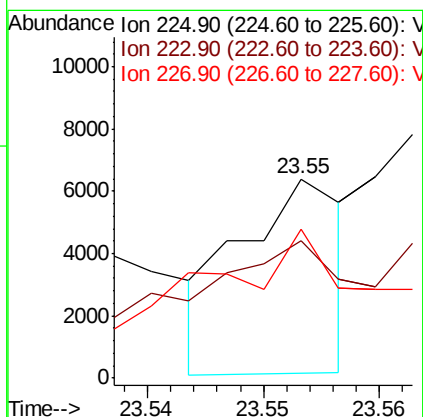
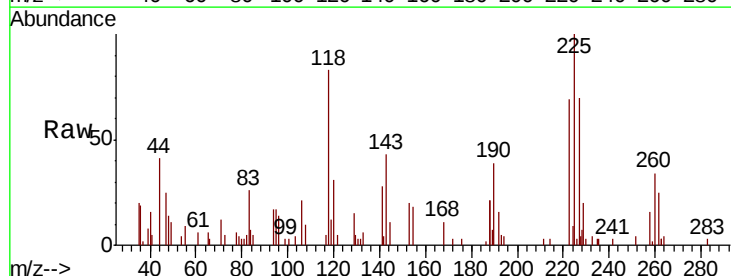
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT4-2018 0.1 LOD

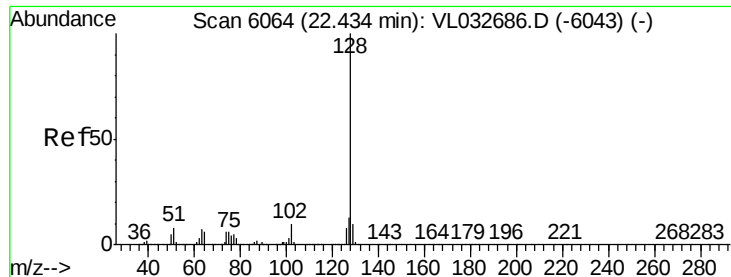
Tgt Ion:146 Resp: 7344
 Ion Ratio Lower Upper
 146 100
 111 112.6 25.3 75.8#
 148 160.8 31.9 95.9#



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.041 ppbv
 RT: 23.55 min Scan# 6412
 Delta R.T. -0.00 min
 Lab File: VL032695.D
 Acq: 24 Oct 2018 19:54

Tgt Ion:225 Resp: 3907
 Ion Ratio Lower Upper
 225 100
 223 277.3 50.7 76.1#
 227 249.7 50.7 76.1#





#79

Naphthalene

Concen: 0.008 ppbv

RT: 22.43 min Scan# 6062

Delta R.T. -0.01 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT4-2018 0.1 LOD

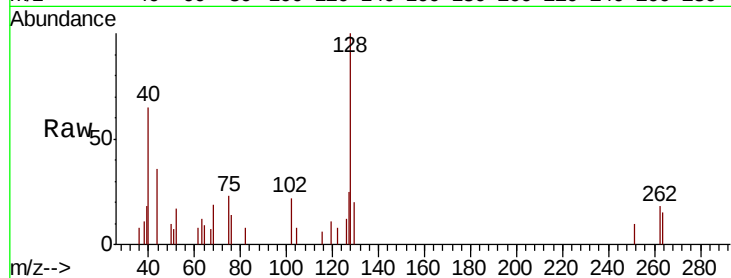
Tgt Ion:128 Resp: 1874

Ion Ratio Lower Upper

128 100

127 10.0 10.3 15.5#

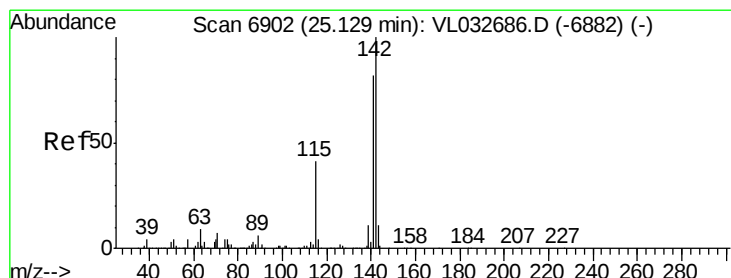
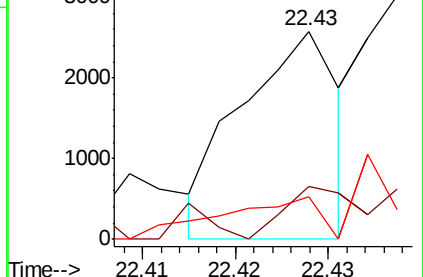
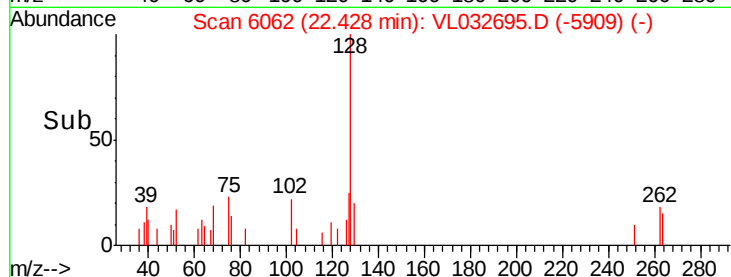
129 26.0 8.6 13.0#



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.006 ppbv

RT: 25.15 min Scan# 6908

Delta R.T. 0.02 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

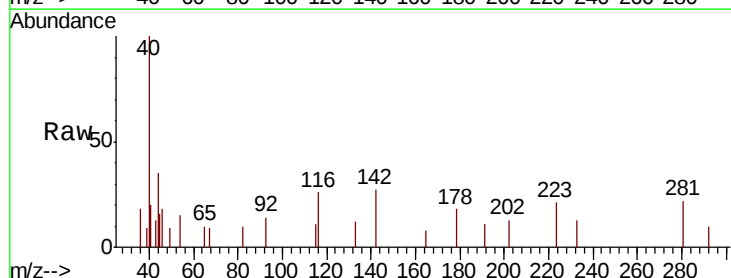
Tgt Ion:142 Resp: 322

Ion Ratio Lower Upper

142 100

141 139.8 67.5 101.3#

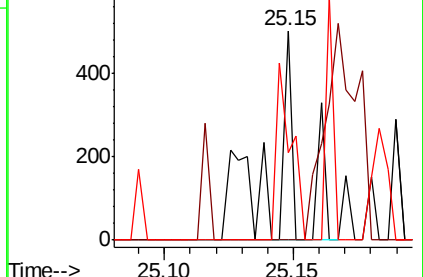
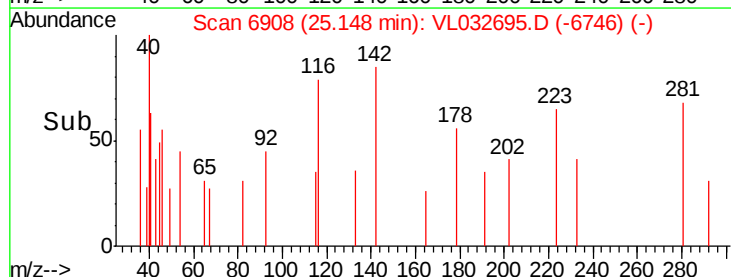
115 87.9 33.5 50.3#

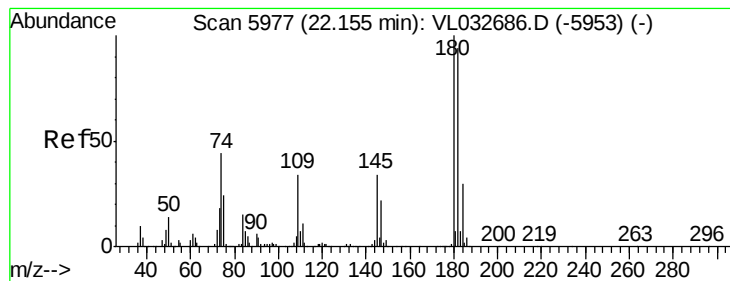


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81

1,2,4-Trichlorobenzene

Concen: 0.012 ppbv

RT: 22.16 min Scan# 5978

Delta R.T. 0.00 min

Lab File: VL032695.D

Acq: 24 Oct 2018 19:54

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT4-2018 0.1 LOD

Tgt Ion:180 Resp: 1469

Ion Ratio Lower Upper

180 100

182 0.0 76.5 114.7#

184 144.7 24.7 37.1#

