

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL020916\
 Data File : VL026849.D
 Acq On : 10 Feb 2016 10:54
 Operator : SY/AP
 Sample : H1385-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 KBD-T402-EFF-AIR

Quant Time: Feb 10 12:32:29 2016

Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL020916AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 10 03:14:04 2016

QLast Update : Wed Feb 10 03:14:04 2016

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.69	49	1417680	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.36	114	4232294	10.00	ppbv	-0.02
55) Chlorobenzene-d5	13.79	117	3094010	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.33	95	2536495	11.42	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	114.20%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.67	85	121093	0.40	ppbv	96
3) Chlorodifluoromethane	3.59	51	657340	2.86	ppbv	98
4) Chloromethane	3.78	50	49449	0.54	ppbv	100
9) Propene	3.85	41	468836	7.54	ppbv	99
10) Heptane	9.39	43	14126	0.07	ppbv	97
11) Trichlorofluoromethane	4.73	101	98144	0.27	ppbv	91
12) 1,1,2-Trichlorotrifluoroet	5.34	101	20203	0.08	ppbv	96
13) Ethanol	4.35	45	120112	11.24	ppbv	98
15) Acetone	4.62	43	3711974	19.06	ppbv	98
16) 1,3-Butadiene	3.97	39	2358880	31.02	ppbv #	8
17) tert-Butyl alcohol	5.15	59	5053420	39.30	ppbv	99
19) Isopropyl Alcohol	4.79	45	142152	2.05	ppbv #	92
20) Methylene Chloride	5.18	84	907679	8.99	ppbv	93
21) Allyl Chloride	5.15	41	1227907	10.21	ppbv #	55
23) Vinyl Acetate	6.04	43	6405196	24.25	ppbv #	44
24) 1,1-Dichloroethane	5.95	63	7003	0.03	ppbv #	85
25) Ethyl Acetate	6.70	43	481526	1.65	ppbv #	82
26) Hexane	6.70	57	703148	4.27	ppbv #	51
27) Carbon Disulfide	5.42	76	605912	2.14	ppbv	98
28) Methyl tert-Butyl Ether	5.98	73	8781263	34.12	ppbv	96
29) Chloroform	6.78	83	42983	0.17	ppbv	98
30) Cyclohexane	8.34	84	22766	0.17	ppbv #	1
34) 2-Butanone	6.23	43	517059	2.49	ppbv	93
35) Carbon Tetrachloride	8.20	117	22012	0.07	ppbv	90
36) Benzene	8.06	78	107950	0.32	ppbv #	95
37) 1,2-Dichloroethane	7.41	62	9024	0.04	ppbv #	57
38) Trichloroethene	9.10	130	11742	0.08	ppbv	93
41) Tetrahydrofuran	7.13	42	48242	0.47	ppbv #	34
44) 2,2,4-Trimethylpentane	9.12	57	30738	0.05	ppbv #	54
50) 4-Methyl-2-Pentanone	10.14	43	33351	0.14	ppbv	96
51) 2-Hexanone	11.57	43	1609104	7.85	ppbv #	29
52) Tetrachloroethene	12.83	164	74523	0.56	ppbv	94
53) Toluene	11.27	91	738528	1.95	ppbv	99
57) Chlorobenzene	13.87	112	8670	0.03	ppbv #	70
58) Ethyl Benzene	14.46	91	32772	0.09	ppbv	98
59) m/p-Xylene	14.77	91	25721	0.08	ppbv #	29
60) o-Xylene	15.53	91	33100	0.10	ppbv	99
61) Styrene	15.35	104	135380	1.15	ppbv	98
62) Isopropylbenzene	16.59	105	154109	0.37	ppbv	97
64) n-propylbenzene	17.56	120	54400	0.51	ppbv	80
65) tert-Butylbenzene	18.85	119	43001	0.11	ppbv #	95

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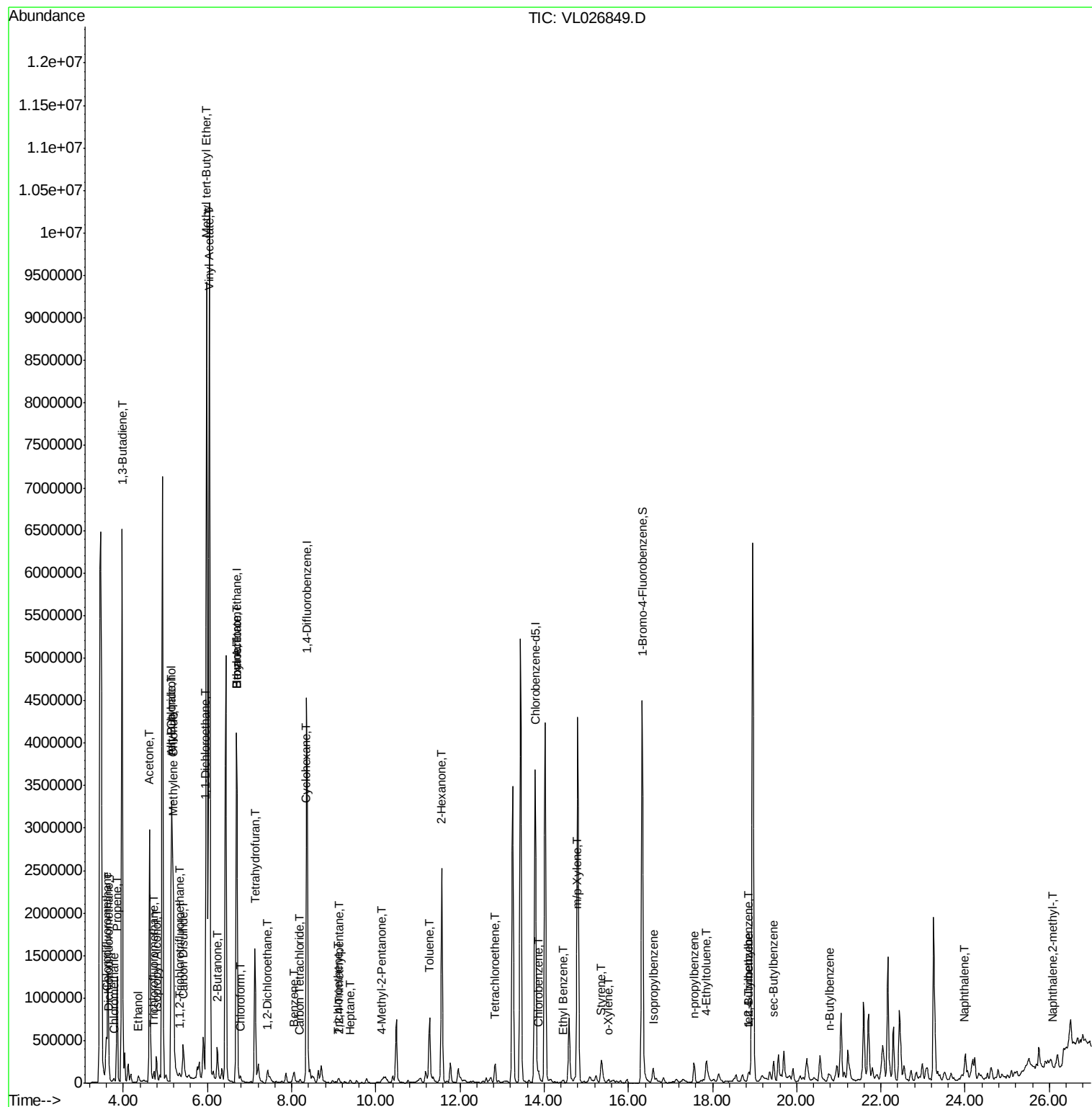
Quant Time: Feb 10 12:32:29 2016
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL020916AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed Feb 10 03:14:04 2016
QLast Update : Wed Feb 10 03:14:04 2016
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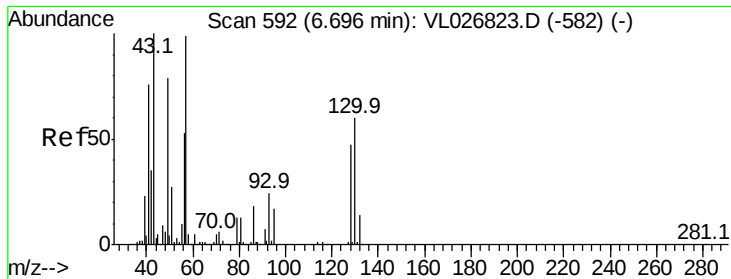
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) sec-Butylbenzene	19.45	105	255943	0.51	ppbv	99
70) n-Butylbenzene	20.79	91	65659	0.17	ppbv #	73
72) 4-Ethyltoluene	17.86	105	12760	0.04	ppbv #	55
74) 1,2,4-Trimethylbenzene	18.87	105	44684	0.13	ppbv #	84
79) Naphthalene	23.97	128	37951	0.22	ppbv #	76
80) Naphthalene,2-methyl-	26.09	142	32626	0.47	ppbv #	72

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

Instrument :
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ClientSampleId :
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Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL020916AIR.M
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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.69 min Scan# 591

Delta R.T. -0.01 min

Lab File: VL026849.D

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Instrument :
MSVOA_L
ClientSampleId :
KBD-T402-EFF-AIR

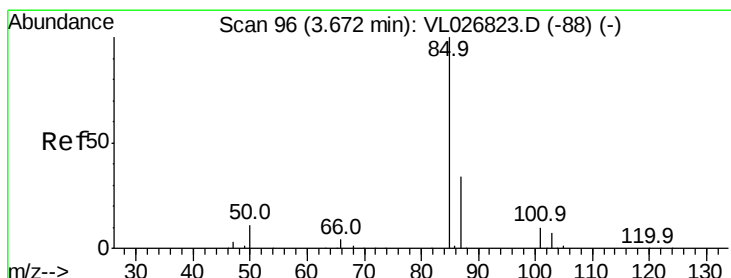
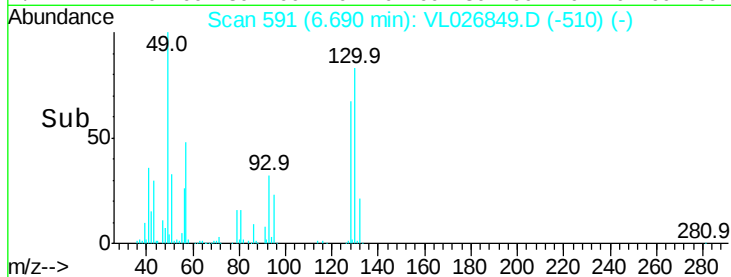
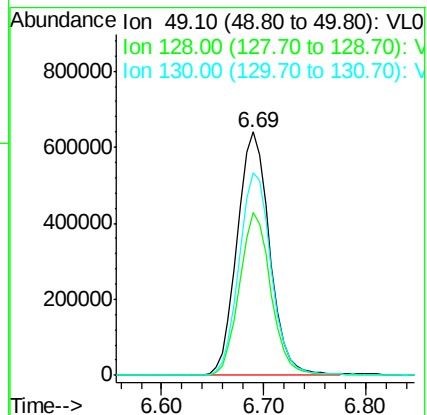
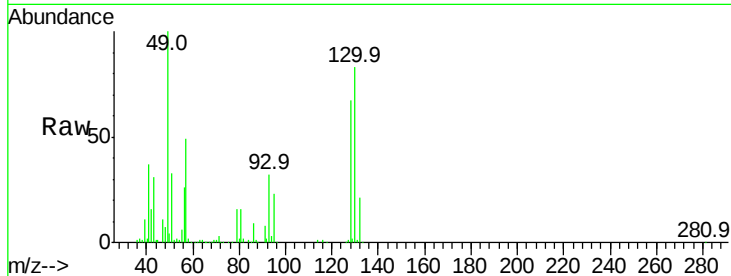
Tgt Ion: 49 Resp: 1417680

Ion Ratio Lower Upper

49 100

128 65.5 29.7 89.1

130 83.9 38.3 114.8



#2

Dichlorodifluoromethane

Concen: 0.40 ppbv

RT: 3.67 min Scan# 95

Delta R.T. -0.01 min

Lab File: VL026849.D

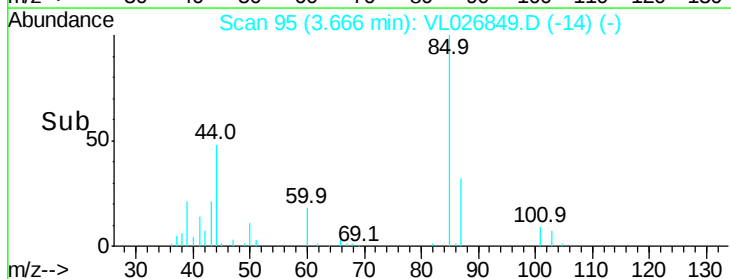
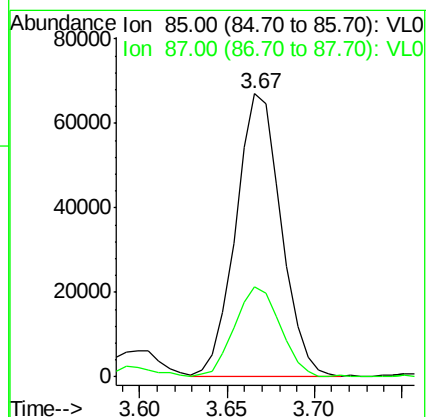
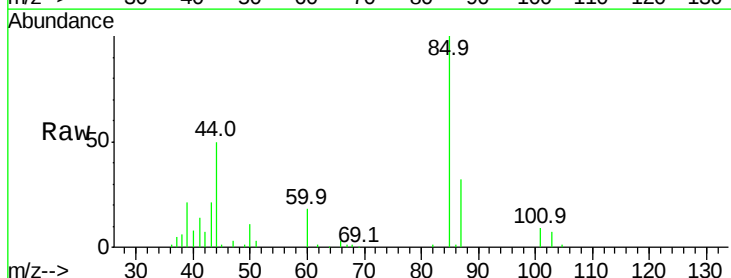
Acq: 10 Feb 2016 10:54

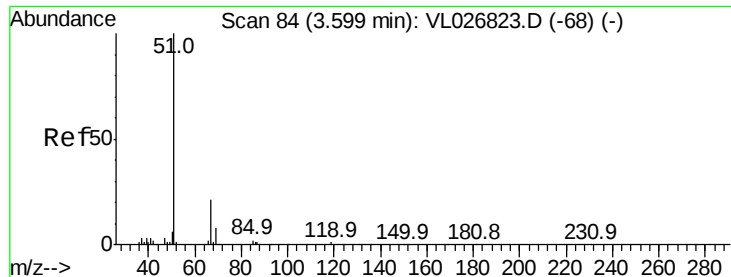
Tgt Ion: 85 Resp: 121093

Ion Ratio Lower Upper

85 100

87 31.9 27.3 40.9





#3

Chlorodifluoromethane

Concen: 2.86 ppbv

RT: 3.59 min Scan# 83

Delta R.T. -0.01 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Instrument :

MSVOA_L

ClientSampleId :

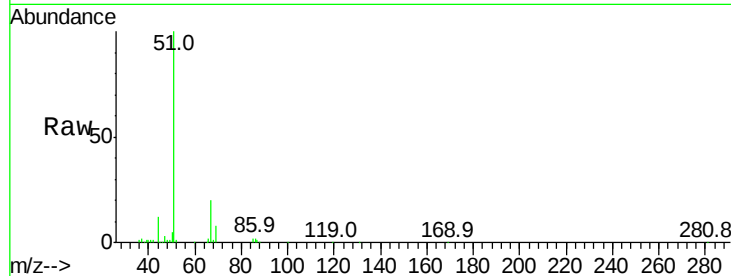
KBD-T402-EFF-AIR

Tgt Ion: 51 Resp: 657340

Ion Ratio Lower Upper

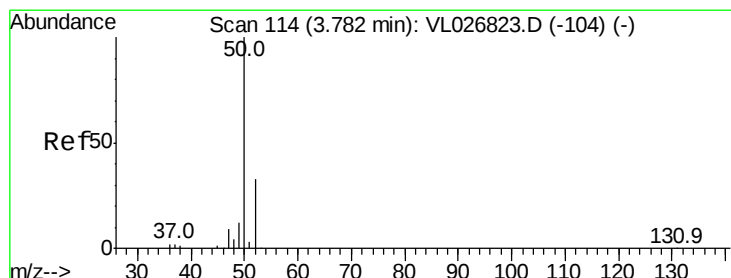
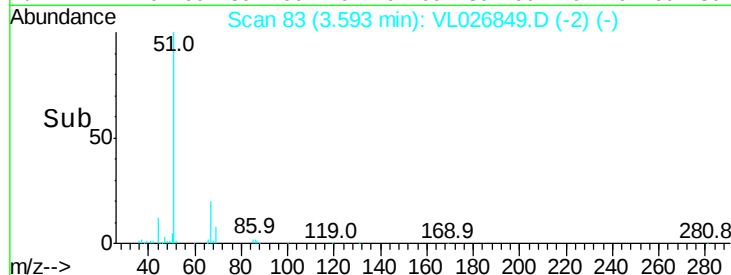
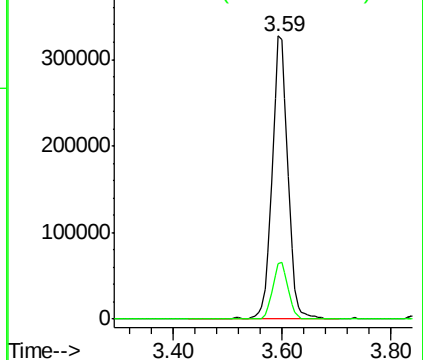
51 100

67 19.6 16.4 24.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.54 ppbv

RT: 3.78 min Scan# 113

Delta R.T. -0.01 min

Lab File: VL026849.D

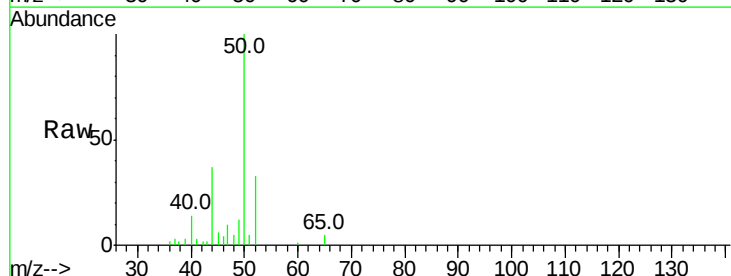
Acq: 10 Feb 2016 10:54

Tgt Ion: 50 Resp: 49449

Ion Ratio Lower Upper

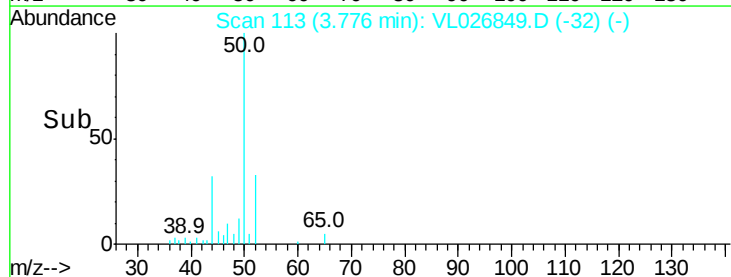
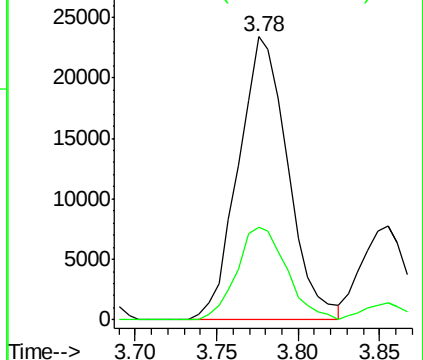
50 100

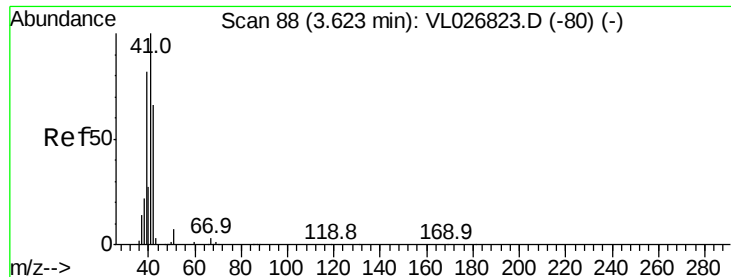
52 32.9 26.3 39.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 7.54 ppbv

RT: 3.85 min Scan# 126

Delta R.T. 0.23 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Instrument :

MSVOA_L

ClientSampleId :

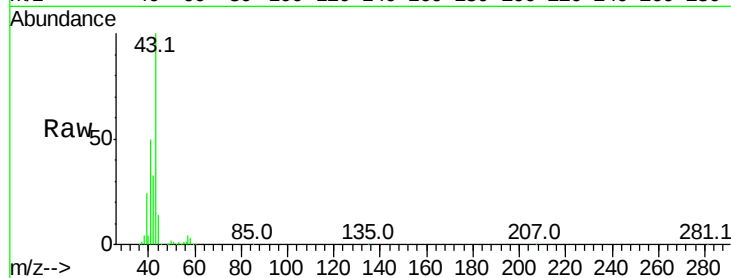
KBD-T402-EFF-AIR

Tgt Ion: 41 Resp: 468836

Ion Ratio Lower Upper

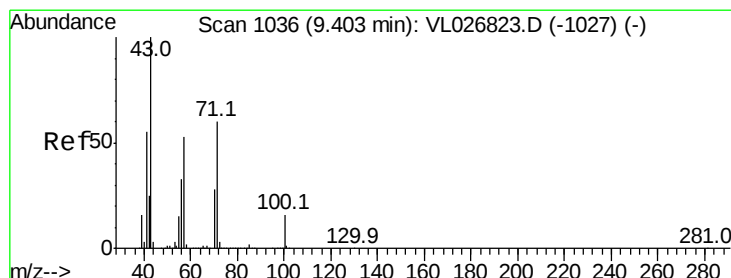
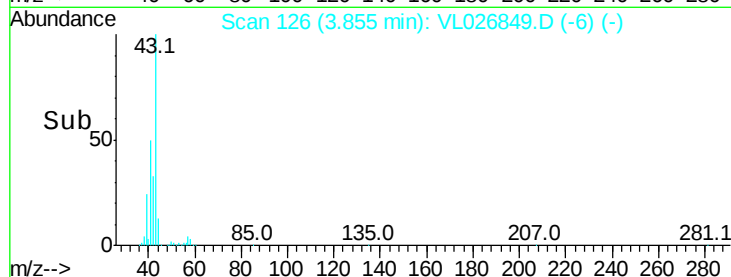
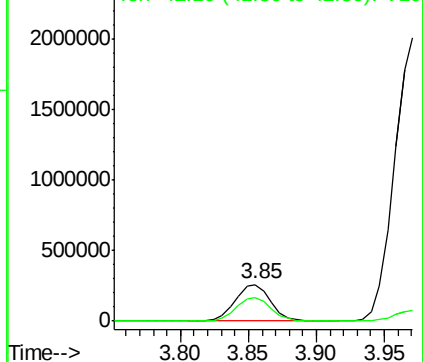
41 100

42 66.5 52.8 79.2



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.07 ppbv

RT: 9.39 min Scan# 1034

Delta R.T. -0.01 min

Lab File: VL026849.D

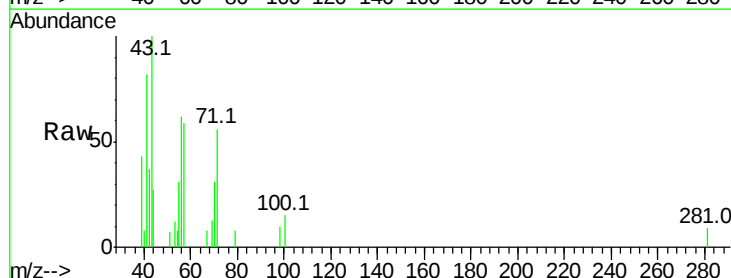
Acq: 10 Feb 2016 10:54

Tgt Ion: 43 Resp: 14126

Ion Ratio Lower Upper

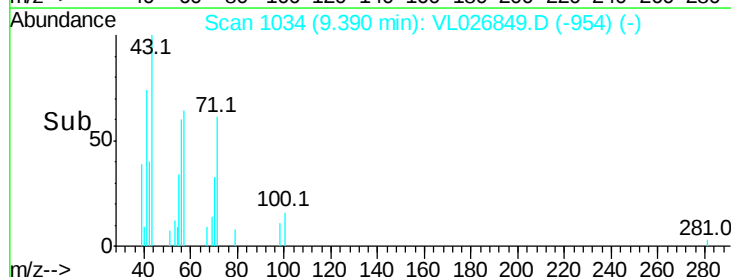
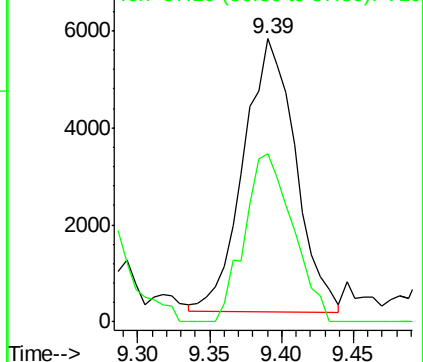
43 100

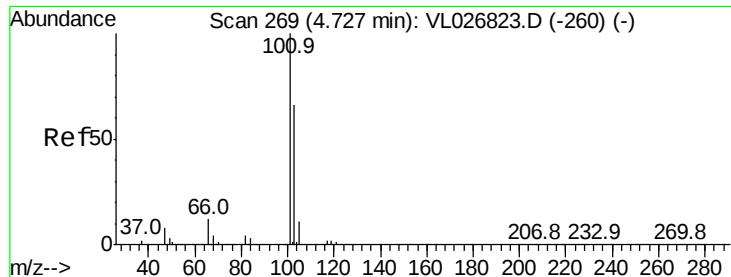
57 57.0 44.0 66.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

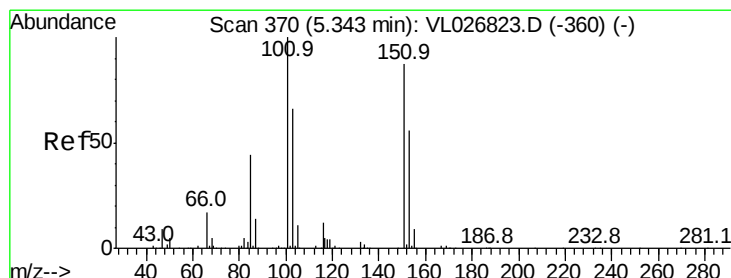
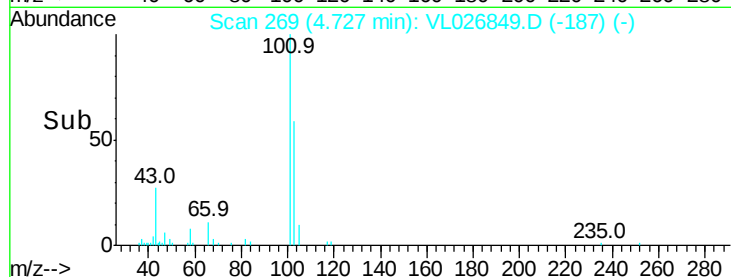
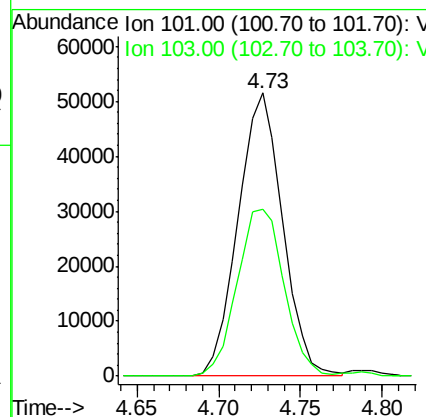
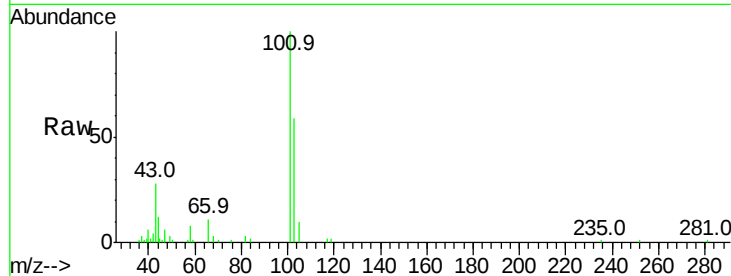




#11
 Trichlorofluoromethane
 Concen: 0.27 ppbv
 RT: 4.73 min Scan# 269
 Delta R.T. -0.00 min
 Lab File: VL026849.D
 Acq: 10 Feb 2016 10:54

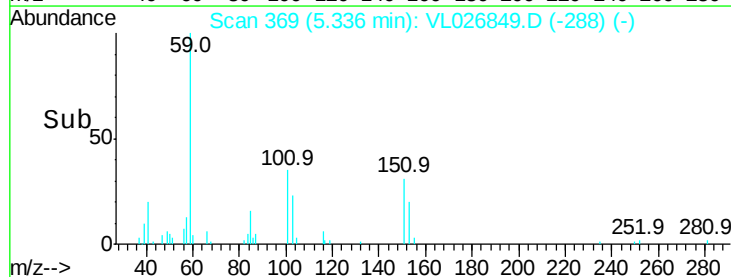
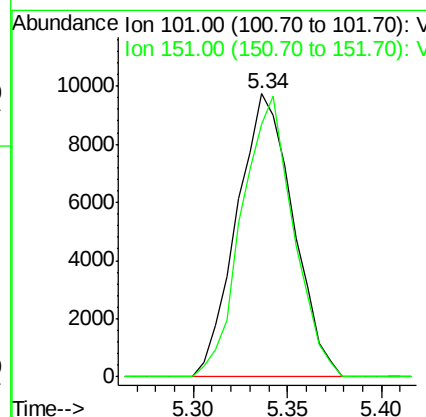
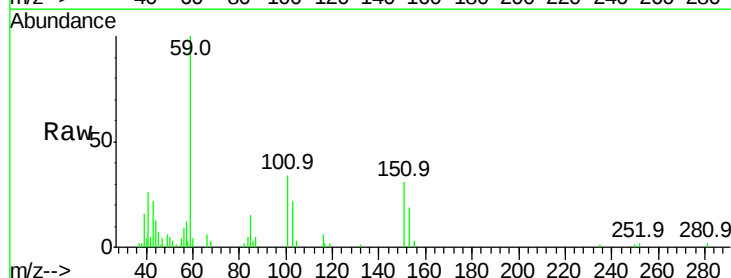
Instrument :
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 KBD-T402-EFF-AIR

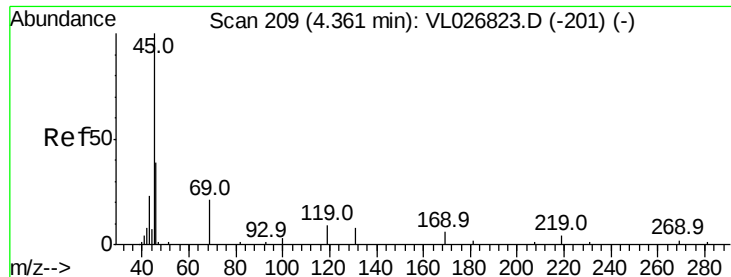
Tgt Ion:101 Resp: 98144
 Ion Ratio Lower Upper
 101 100
 103 58.8 52.7 79.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.08 ppbv
 RT: 5.34 min Scan# 369
 Delta R.T. -0.01 min
 Lab File: VL026849.D
 Acq: 10 Feb 2016 10:54

Tgt Ion:101 Resp: 20203
 Ion Ratio Lower Upper
 101 100
 151 90.5 69.4 104.0





#13

Ethanol

Concen: 11.24 ppbv

RT: 4.35 min Scan# 208

Delta R.T. -0.01 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Instrument :

MSVOA_L

ClientSampleId :

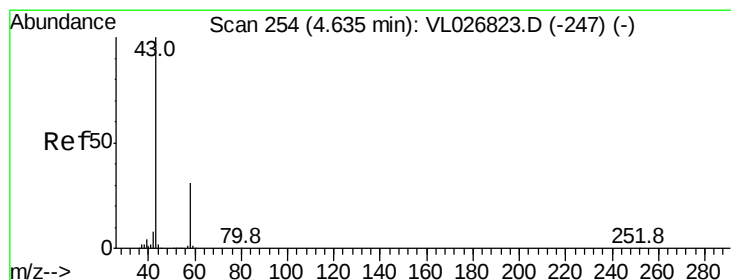
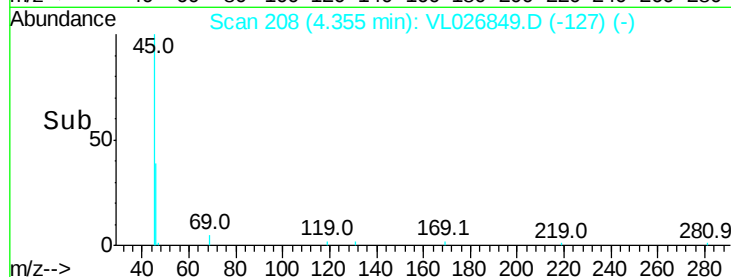
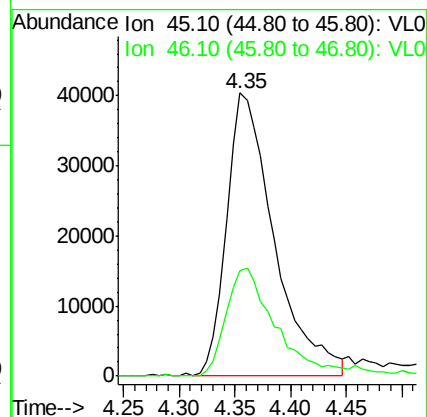
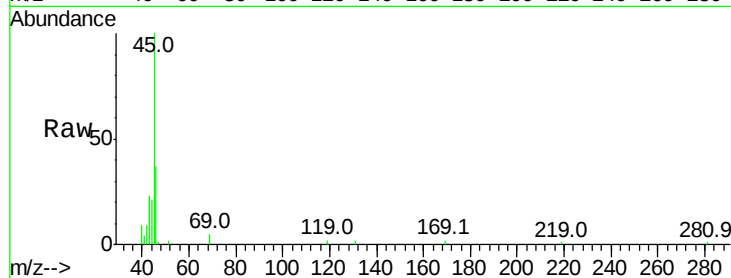
KBD-T402-EFF-AIR

Tgt Ion: 45 Resp: 120112

Ion Ratio Lower Upper

45 100

46 41.0 15.8 63.4



#15

Acetone

Concen: 19.06 ppbv

RT: 4.62 min Scan# 252

Delta R.T. -0.01 min

Lab File: VL026849.D

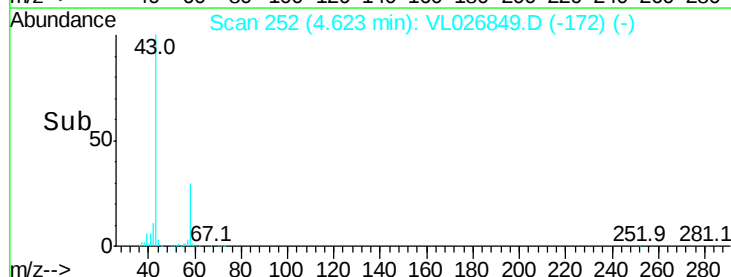
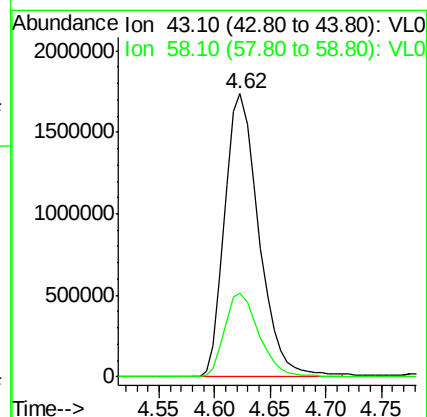
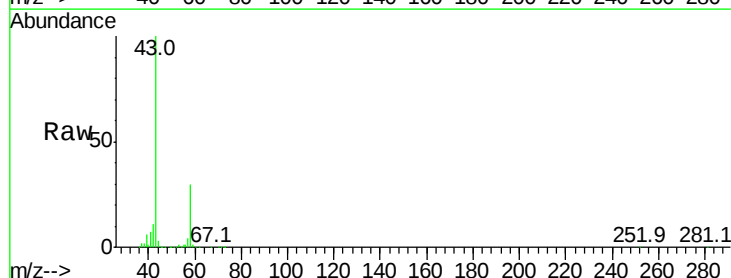
Acq: 10 Feb 2016 10:54

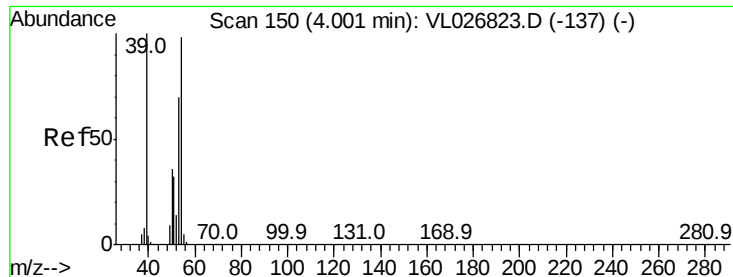
Tgt Ion: 43 Resp: 3711974

Ion Ratio Lower Upper

43 100

58 30.5 25.2 37.8





#16

1,3-Butadiene

Concen: 31.02 ppbv

RT: 3.97 min Scan# 145

Delta R.T. -0.03 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Instrument :

MSVOA_L

ClientSampleId :

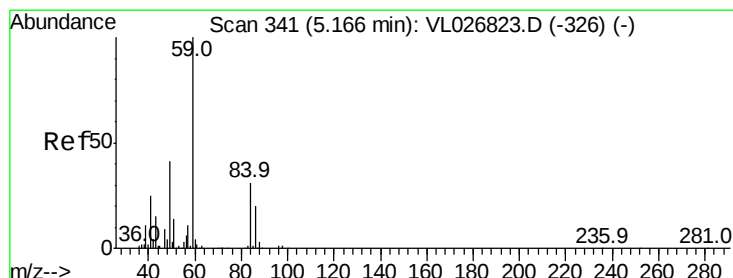
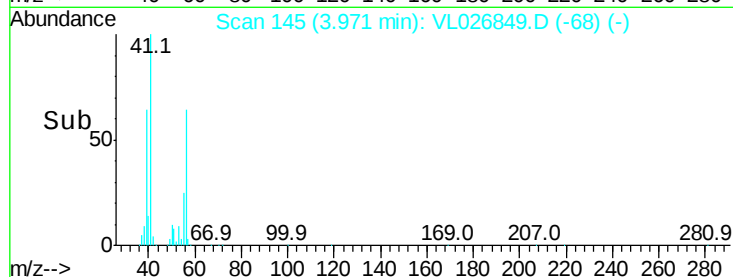
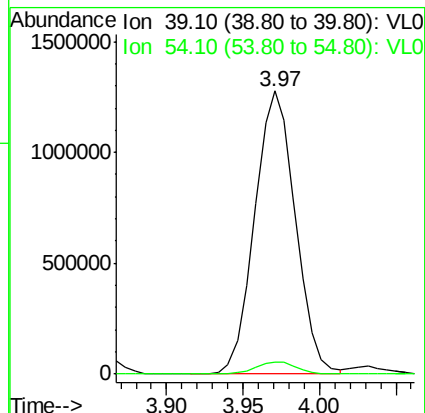
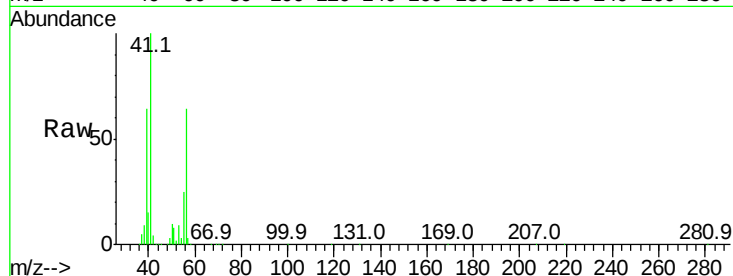
KBD-T402-EFF-AIR

Tgt Ion: 39 Resp: 2358880

Ion Ratio Lower Upper

39 100

54 4.6 74.7 112.1#



#17

tert-Butyl alcohol

Concen: 39.30 ppbv

RT: 5.15 min Scan# 338

Delta R.T. -0.02 min

Lab File: VL026849.D

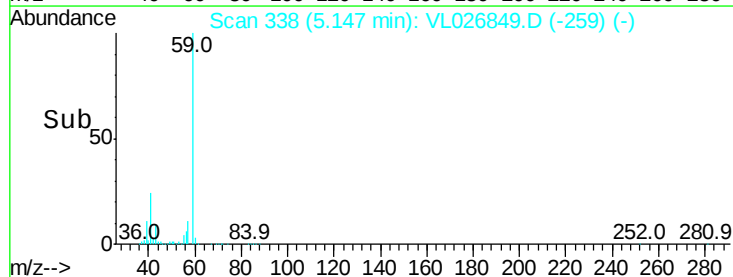
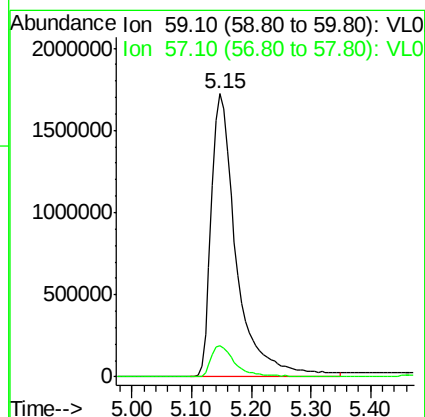
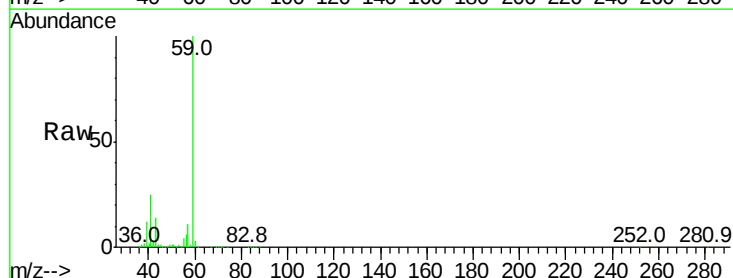
Acq: 10 Feb 2016 10:54

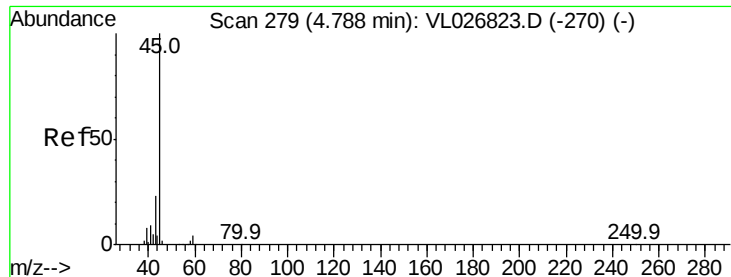
Tgt Ion: 59 Resp: 5053420

Ion Ratio Lower Upper

59 100

57 11.1 8.5 12.7





#19

Isopropyl Alcohol

Concen: 2.05 ppbv

RT: 4.79 min Scan# 279

Delta R.T. -0.00 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Instrument :

MSVOA_L

ClientSampleId :

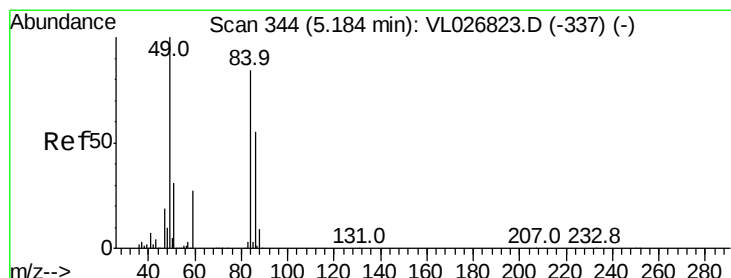
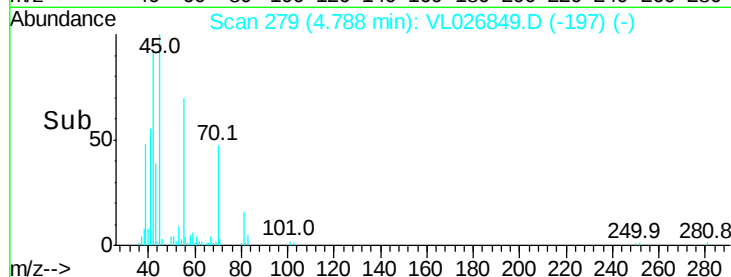
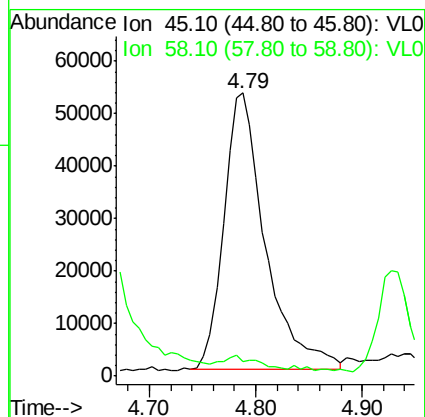
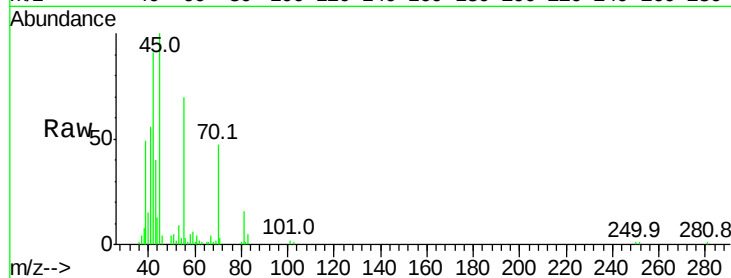
KBD-T402-EFF-AIR

Tgt Ion: 45 Resp: 142152

Ion Ratio Lower Upper

45 100

58 0.0 2.2 3.2#



#20

Methylene Chloride

Concen: 8.99 ppbv

RT: 5.18 min Scan# 344

Delta R.T. -0.00 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Tgt Ion: 84 Resp: 907679

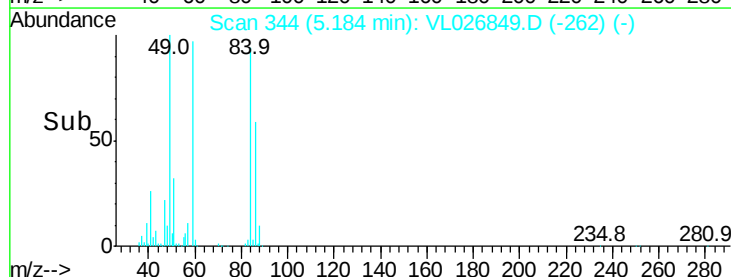
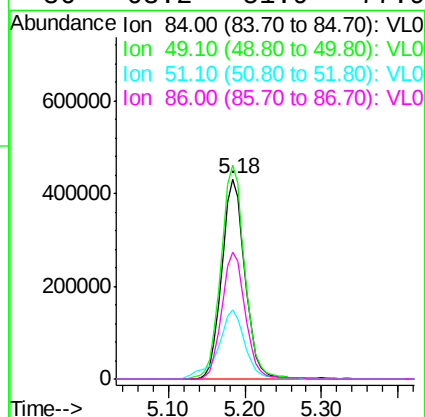
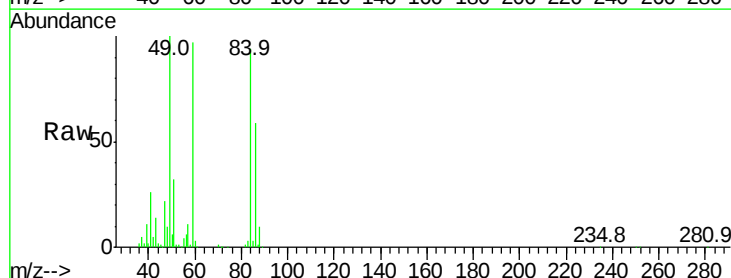
Ion Ratio Lower Upper

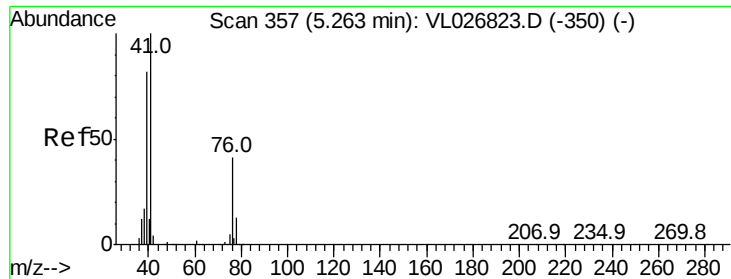
84 100

49 106.4 94.9 142.3

51 34.5 29.5 44.3

86 63.2 51.9 77.9





#21

Allyl Chloride

Concen: 10.21 ppbv

RT: 5.15 min Scan# 338

Delta R.T. -0.12 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Instrument :

MSVOA_L

ClientSampleId :

KBD-T402-EFF-AIR

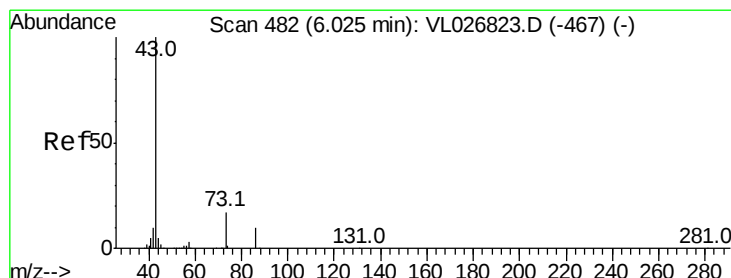
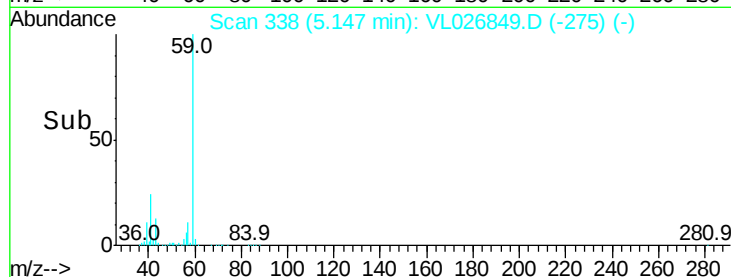
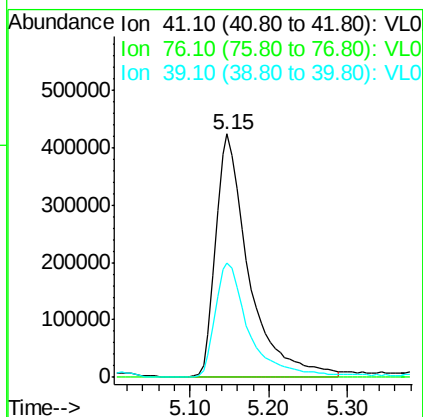
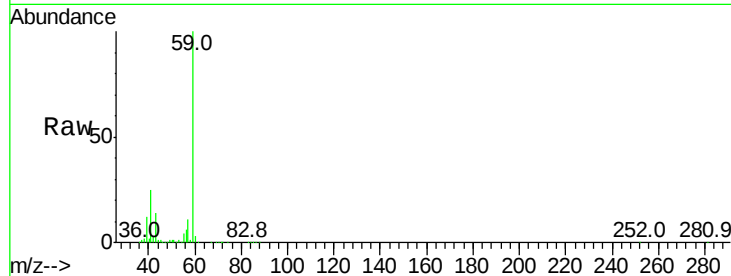
Tgt Ion: 41 Resp: 1227907

Ion Ratio Lower Upper

41 100

76 0.0 32.0 48.0#

39 49.0 64.6 96.8#



#23

Vinyl Acetate

Concen: 24.25 ppbv

RT: 6.04 min Scan# 485

Delta R.T. 0.02 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Tgt Ion: 43 Resp: 6405196

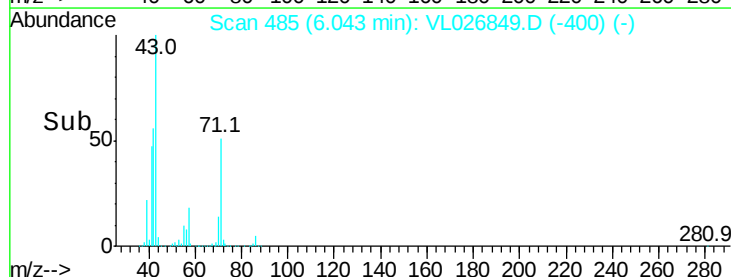
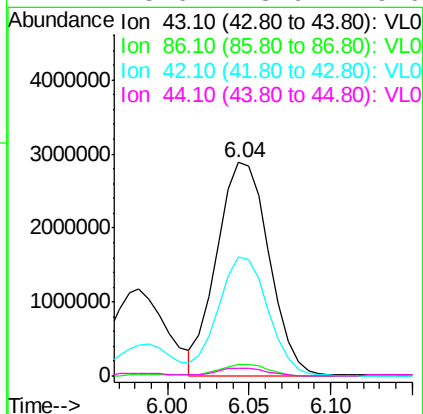
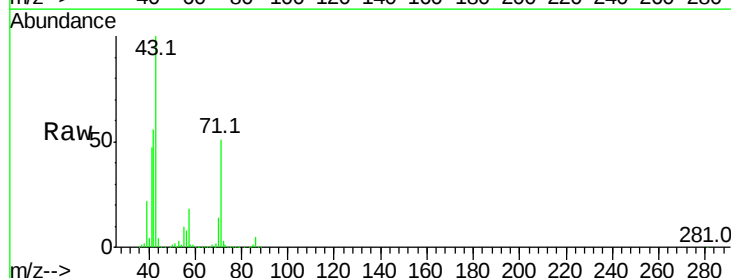
Ion Ratio Lower Upper

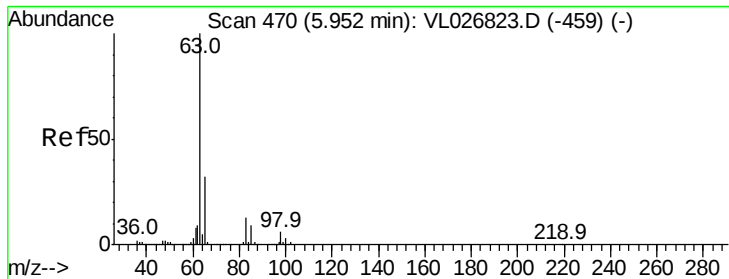
43 100

86 5.5 7.7 11.5#

42 55.9 7.8 11.8#

44 3.6 3.9 5.9#





#24

1,1-Dichloroethane

Concen: 0.03 ppbv

RT: 5.95 min Scan# 470

Delta R.T. -0.00 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Instrument :

MSVOA_L

ClientSampleId :

KBD-T402-EFF-AIR

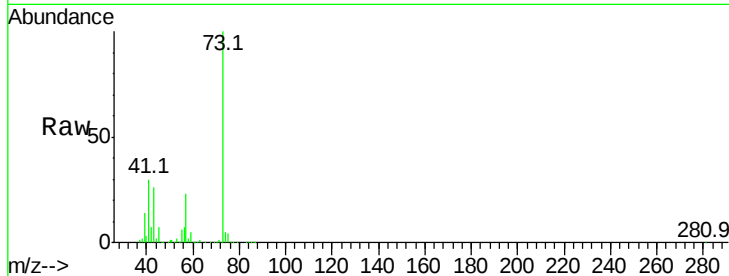
Tgt Ion: 63 Resp: 7003

Ion Ratio Lower Upper

63 100

98 0.0 2.9 8.7#

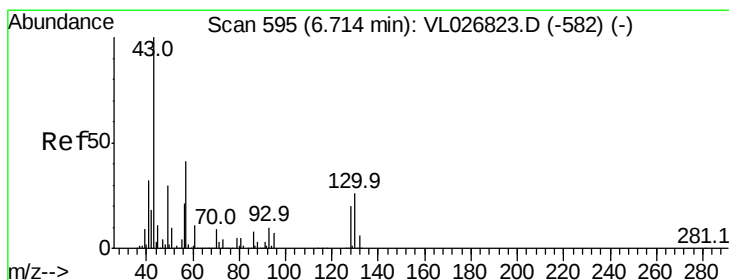
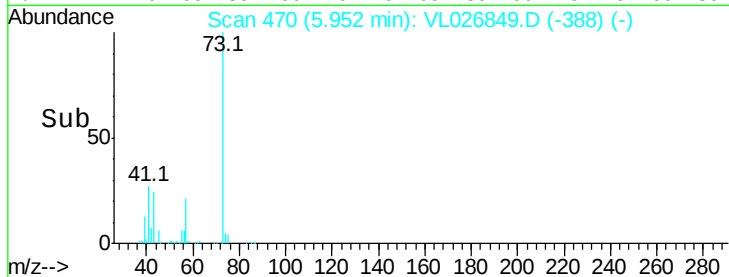
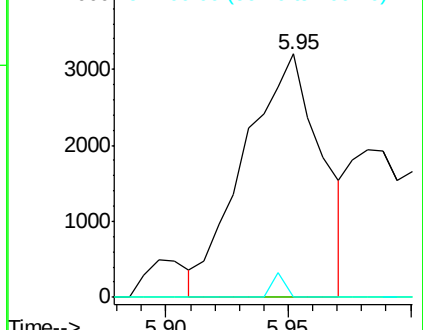
100 0.0 1.7 5.1#



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: 1.65 ppbv

RT: 6.70 min Scan# 592

Delta R.T. -0.02 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Tgt Ion: 43 Resp: 481526

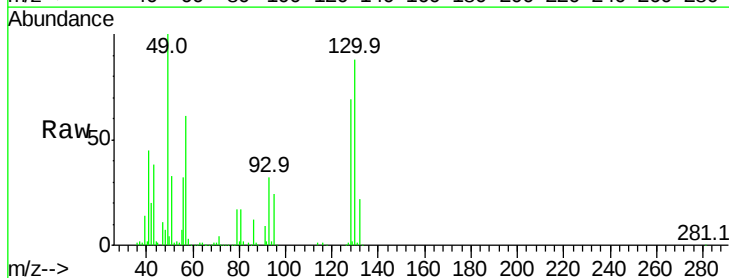
Ion Ratio Lower Upper

43 100

45 4.3 7.8 11.8#

61 1.6 7.9 11.9#

70 2.8 6.9 10.3#

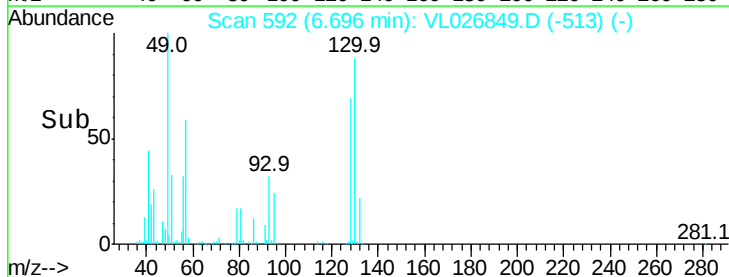
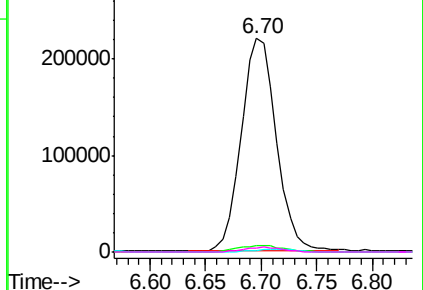


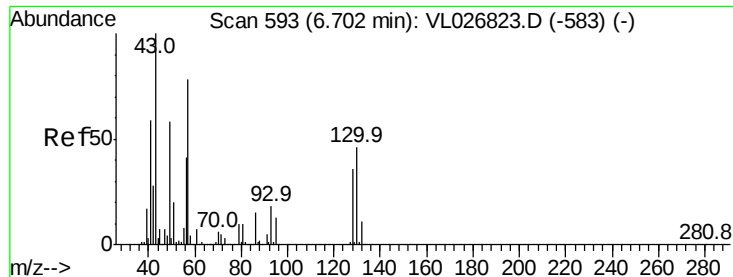
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

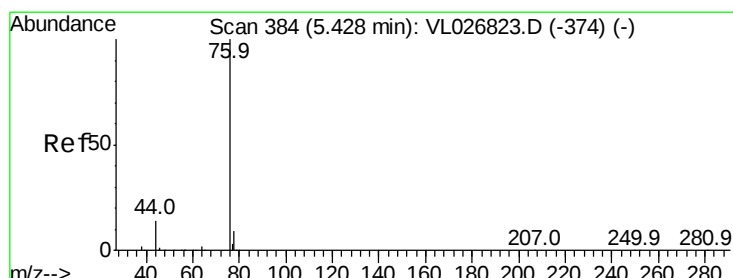
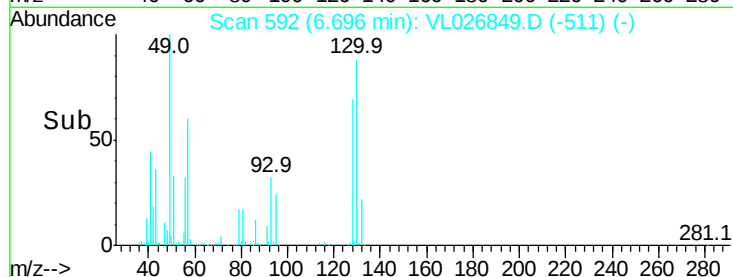
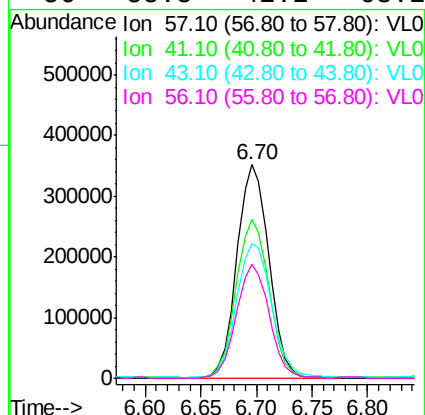
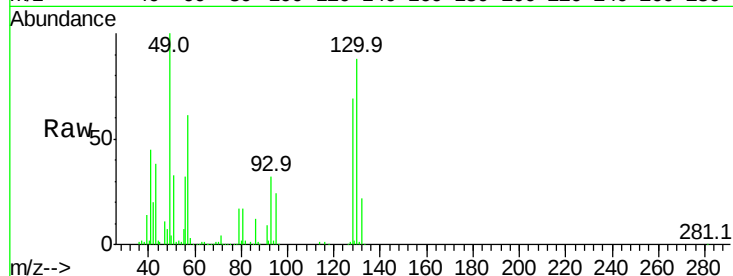




#26
Hexane
Concen: 4.27 ppbv
RT: 6.70 min Scan# 592
Delta R.T. -0.01 min
Lab File: VL026849.D
Acq: 10 Feb 2016 10:54

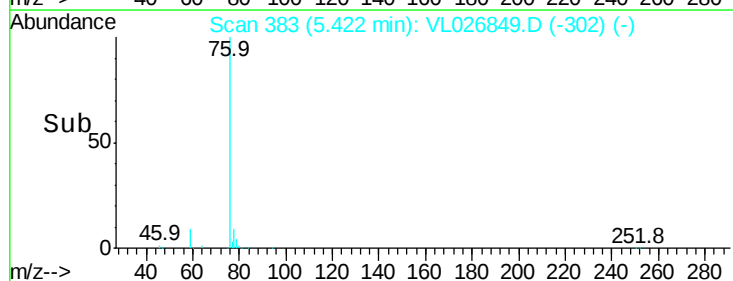
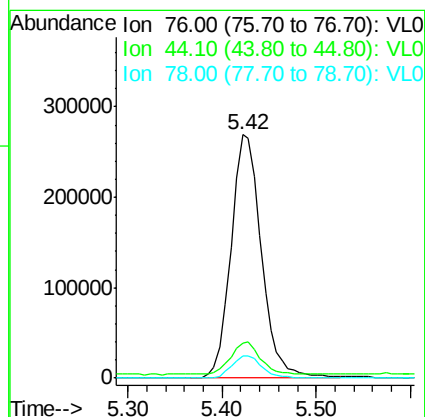
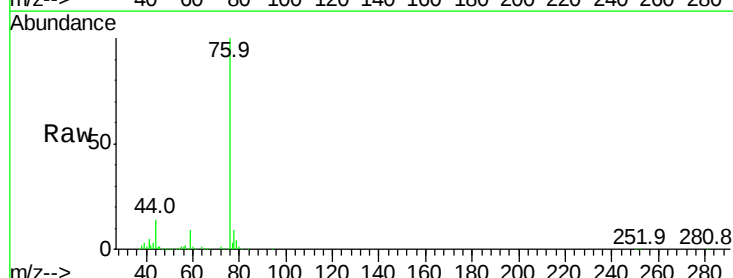
Instrument :
MSVOA_L
ClientSampleId :
KBD-T402-EFF-AIR

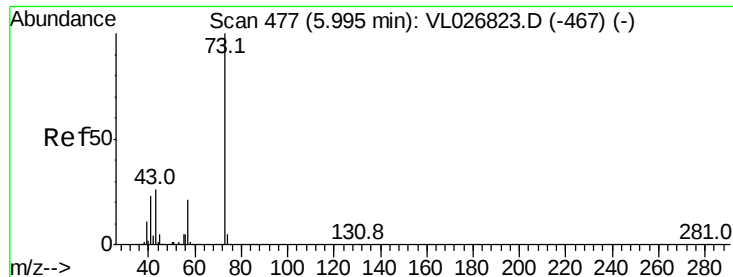
Tgt Ion: 57 Resp: 703148
Ion Ratio Lower Upper
57 100
41 76.8 63.3 94.9
43 70.4 151.4 227.2#
56 55.5 42.2 63.2



#27
Carbon Disulfide
Concen: 2.14 ppbv
RT: 5.42 min Scan# 383
Delta R.T. -0.01 min
Lab File: VL026849.D
Acq: 10 Feb 2016 10:54

Tgt Ion: 76 Resp: 605912
Ion Ratio Lower Upper
76 100
44 13.5 12.1 18.1
78 9.6 7.7 11.5





#28

Methyl tert-Butyl Ether

Concen: 34.12 ppbv

RT: 5.98 min Scan# 474

Delta R.T. -0.02 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Instrument :

MSVOA_L

ClientSampleId :

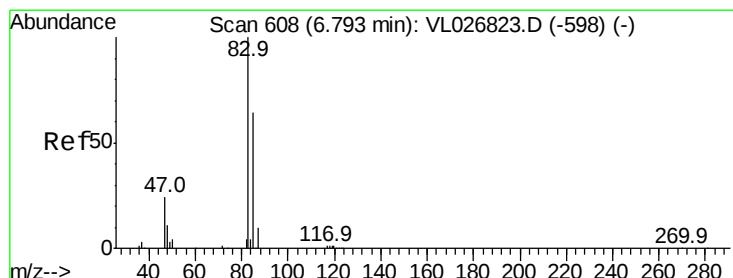
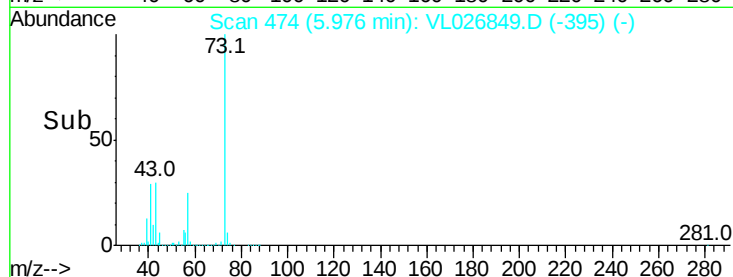
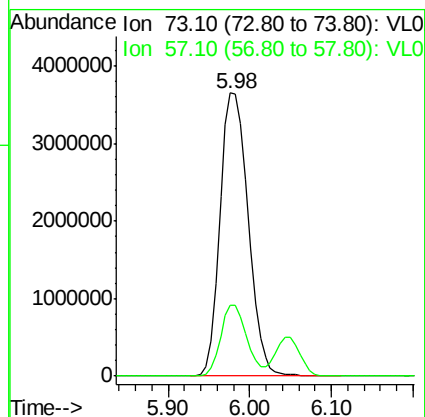
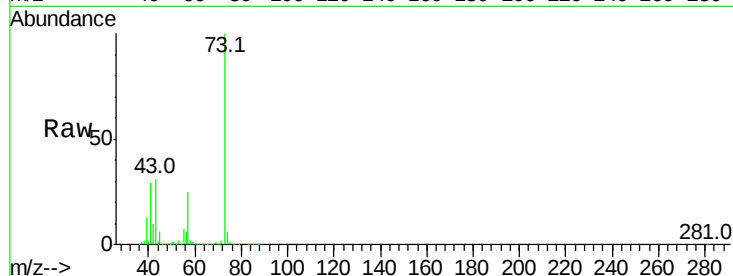
KBD-T402-EFF-AIR

Tgt Ion: 73 Resp: 8781263

Ion Ratio Lower Upper

73 100

57 23.3 17.0 25.6



#29

Chloroform

Concen: 0.17 ppbv

RT: 6.78 min Scan# 606

Delta R.T. -0.01 min

Lab File: VL026849.D

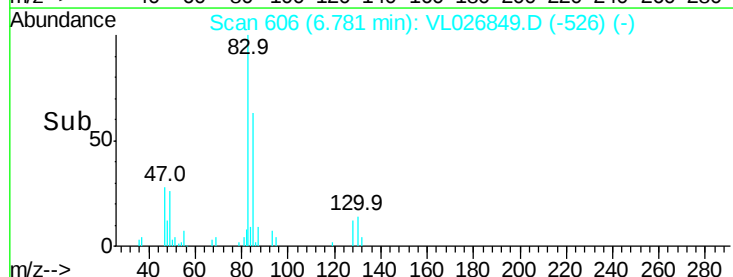
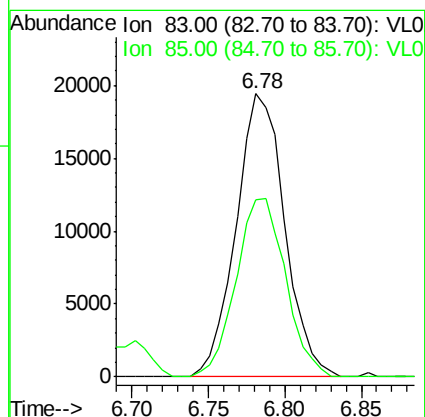
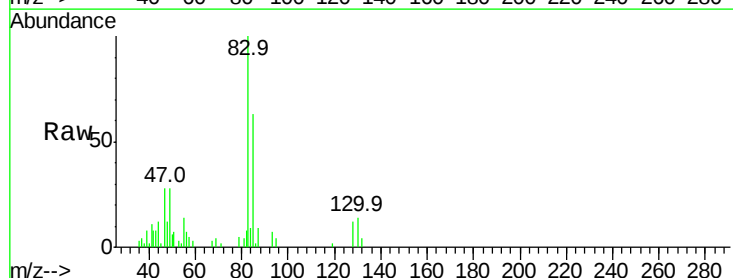
Acq: 10 Feb 2016 10:54

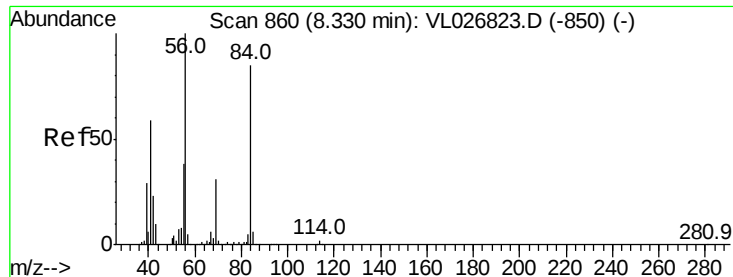
Tgt Ion: 83 Resp: 42983

Ion Ratio Lower Upper

83 100

85 62.5 51.5 77.3

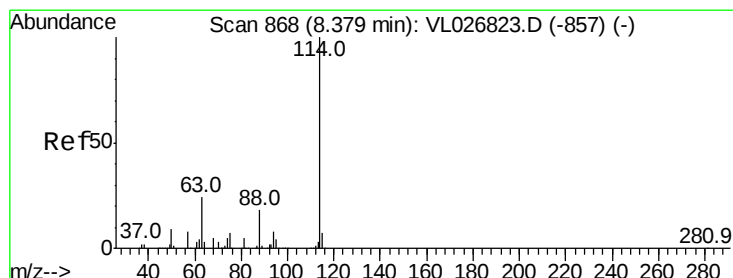
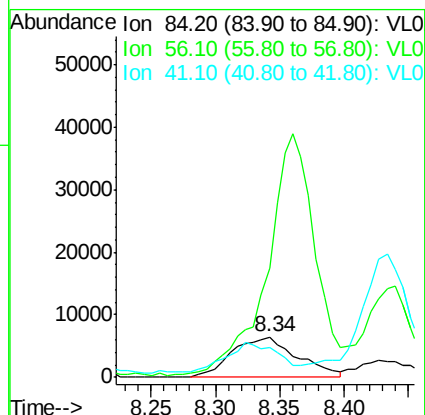
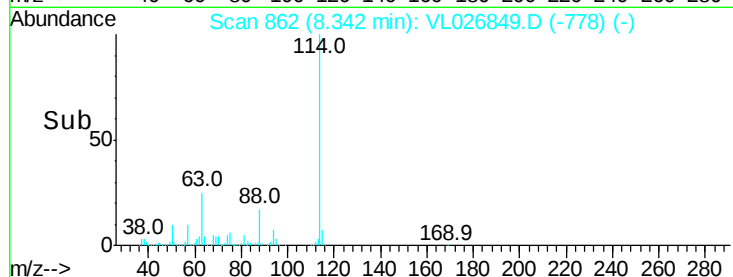
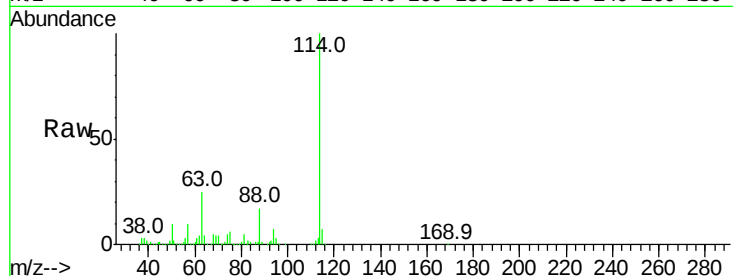




#30
Cyclohexane
Concen: 0.17 ppbv
RT: 8.34 min Scan# 862
Delta R.T. 0.01 min
Lab File: VL026849.D
Acq: 10 Feb 2016 10:54

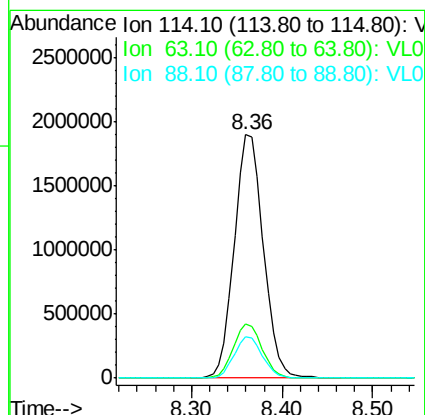
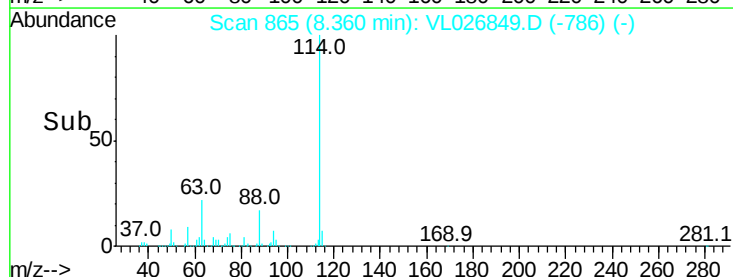
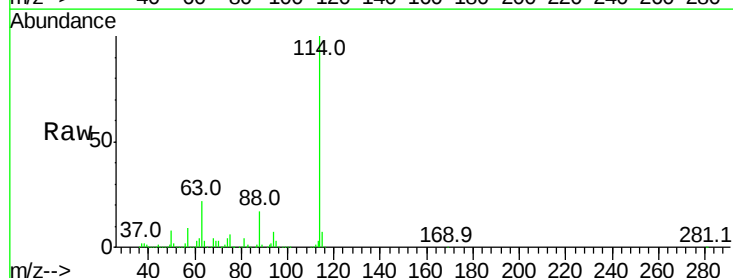
Instrument :
MSVOA_L
ClientSampleId :
KBD-T402-EFF-AIR

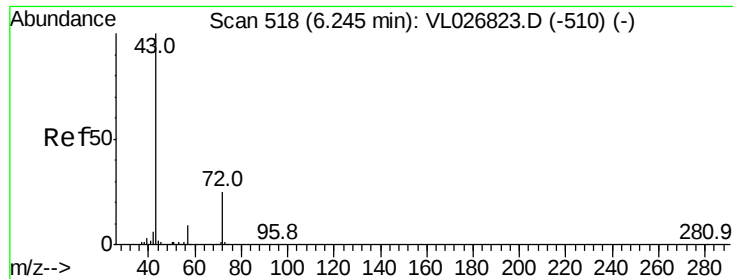
Tgt Ion: 84 Resp: 22766
Ion Ratio Lower Upper
84 100
56 451.6 99.4 149.2#
41 62.6 56.7 85.1



#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 8.36 min Scan# 865
Delta R.T. -0.02 min
Lab File: VL026849.D
Acq: 10 Feb 2016 10:54

Tgt Ion: 114 Resp: 4232294
Ion Ratio Lower Upper
114 100
63 22.1 19.7 29.5
88 16.5 13.8 20.6

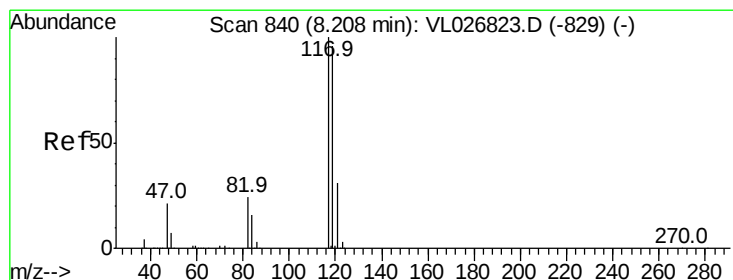
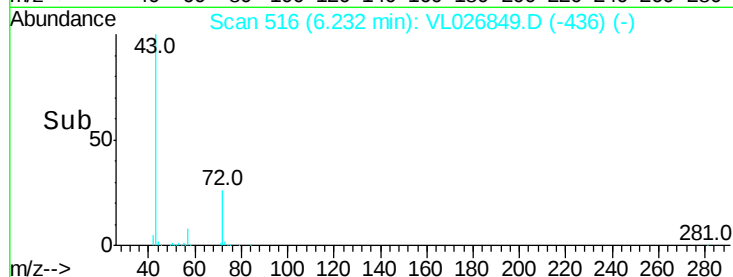
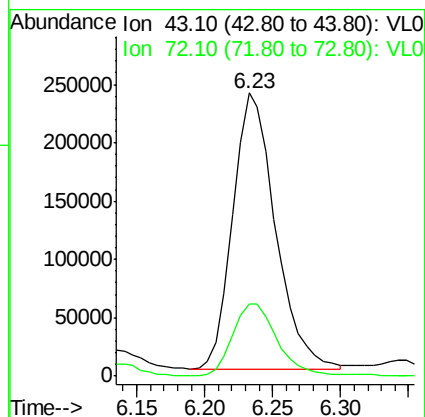
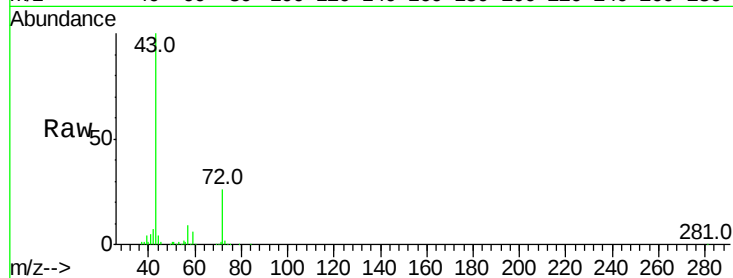




#34
 2-Butanone
 Concen: 2.49 ppbv
 RT: 6.23 min Scan# 516
 Delta R.T. -0.01 min
 Lab File: VL026849.D
 Acq: 10 Feb 2016 10:54

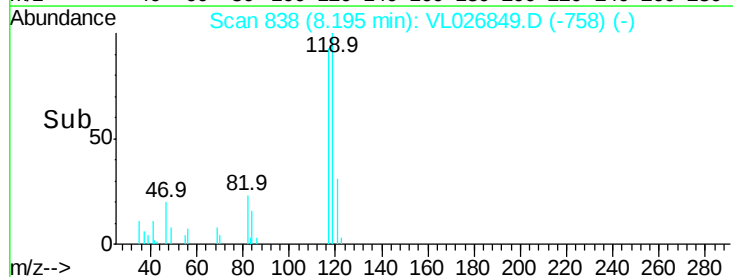
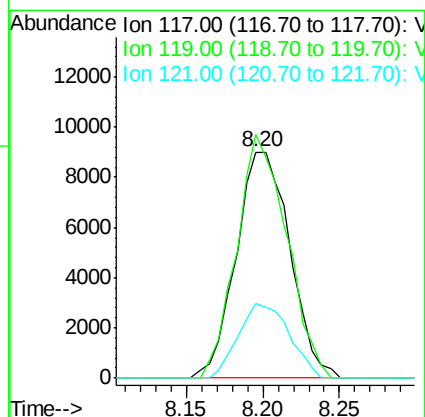
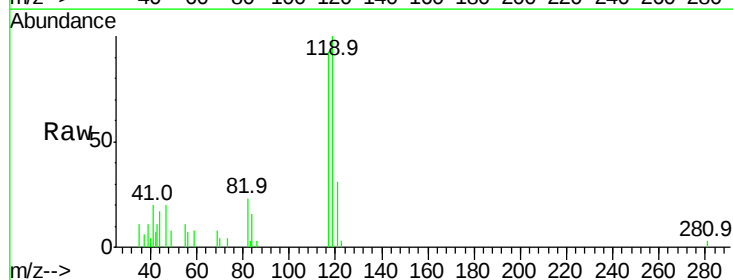
Instrument :
 MSVOA_L
 ClientSampleId :
 KBD-T402-EFF-AIR

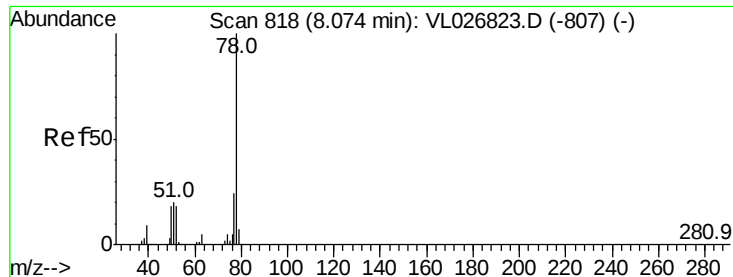
Tgt Ion: 43 Resp: 517059
 Ion Ratio Lower Upper
 43 100
 72 28.5 19.8 29.8



#35
 Carbon Tetrachloride
 Concen: 0.07 ppbv
 RT: 8.20 min Scan# 838
 Delta R.T. -0.01 min
 Lab File: VL026849.D
 Acq: 10 Feb 2016 10:54

Tgt Ion: 117 Resp: 22012
 Ion Ratio Lower Upper
 117 100
 119 107.6 76.6 115.0
 121 32.8 25.0 37.4





#36

Benzene

Concen: 0.32 ppbv

RT: 8.06 min Scan# 816

Delta R.T. -0.01 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Instrument :

MSVOA_L

ClientSampleId :

KBD-T402-EFF-AIR

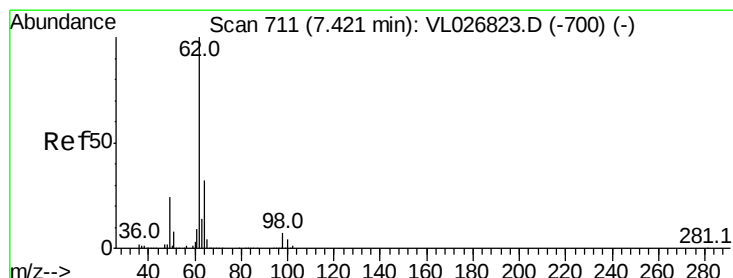
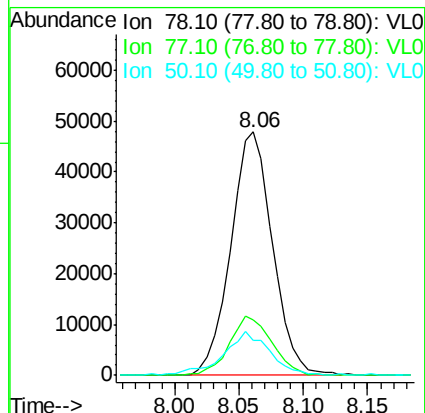
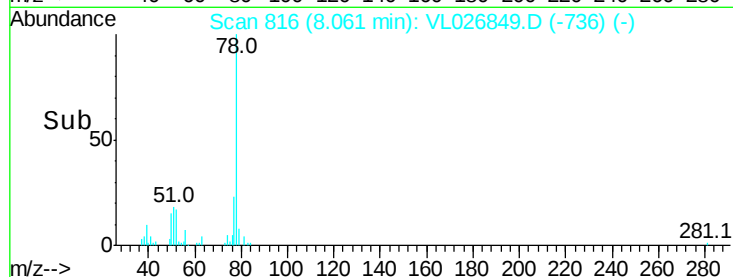
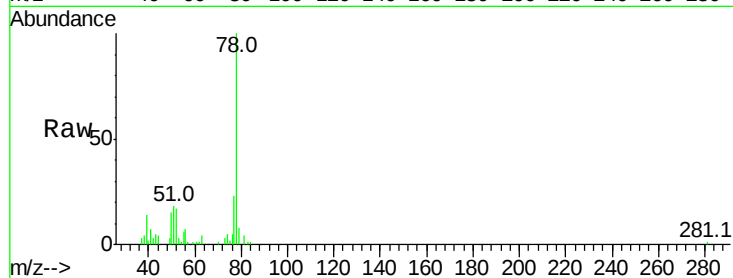
Tgt Ion: 78 Resp: 107950

Ion Ratio Lower Upper

78 100

77 23.0 19.0 28.6

50 13.7 14.2 21.4#



#37

1,2-Dichloroethane

Concen: 0.04 ppbv

RT: 7.41 min Scan# 709

Delta R.T. -0.01 min

Lab File: VL026849.D

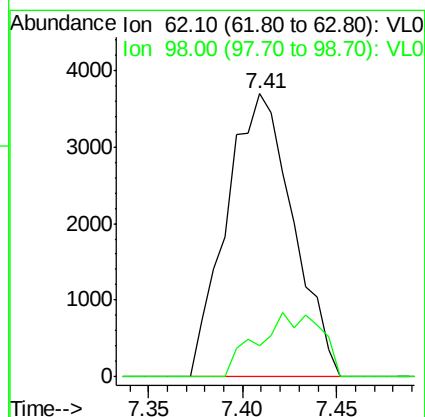
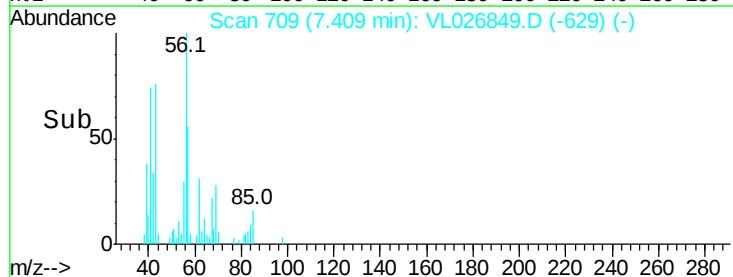
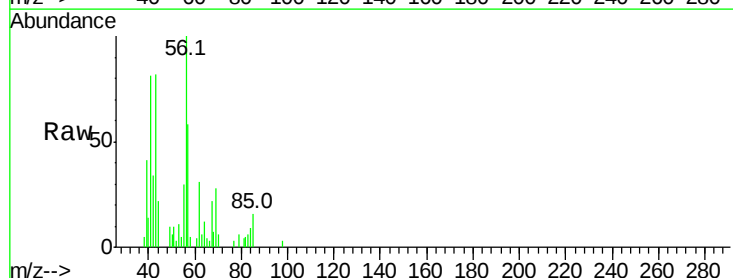
Acq: 10 Feb 2016 10:54

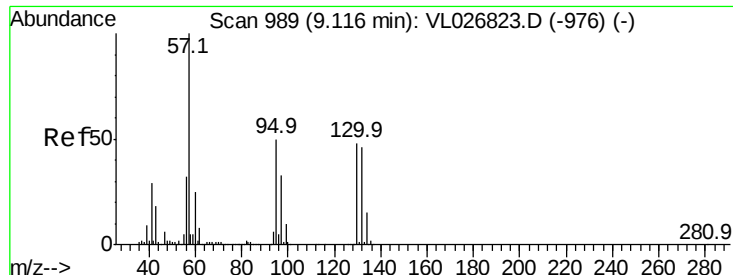
Tgt Ion: 62 Resp: 9024

Ion Ratio Lower Upper

62 100

98 21.5 5.4 8.2#

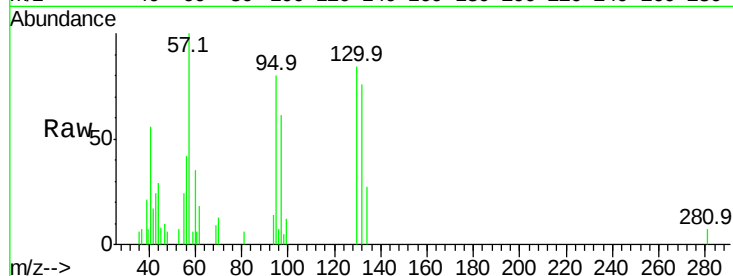




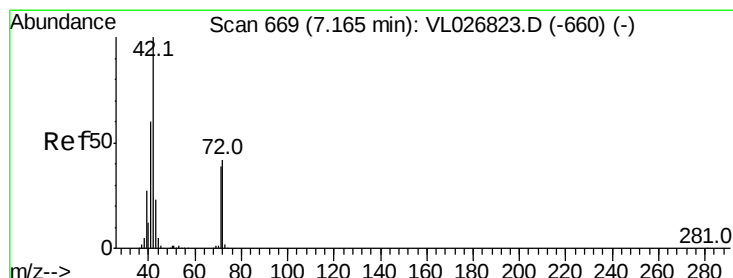
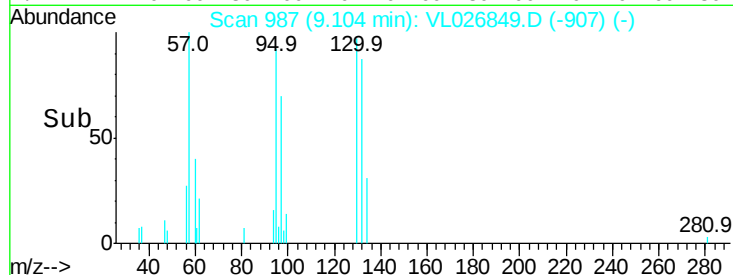
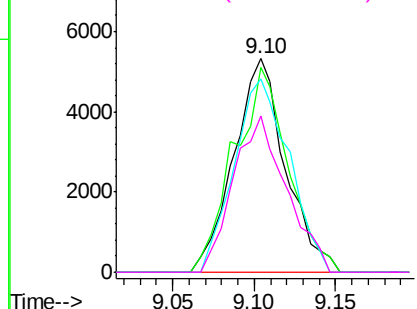
#38
 Trichloroethene
 Concen: 0.08 ppbv
 RT: 9.10 min Scan# 987
 Delta R.T. -0.01 min
 Lab File: VL026849.D
 Acq: 10 Feb 2016 10:54

Instrument :
 MSVOA_L
 ClientSampleId :
 KBD-T402-EFF-AIR

Tgt Ion:130 Resp: 11742
 Ion Ratio Lower Upper
 130 100
 95 95.6 83.0 124.6
 132 90.2 76.0 114.0
 97 72.8 54.0 81.0

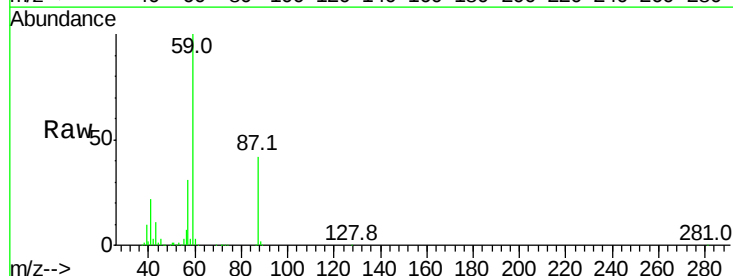


Abundance Ion 130.00 (129.70 to 130.70): V
 Ion 95.00 (94.70 to 95.70): VL0
 Ion 132.00 (131.70 to 132.70): V
 Ion 97.00 (96.70 to 97.70): VL0

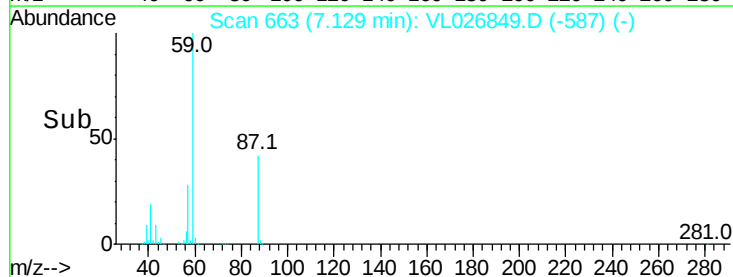
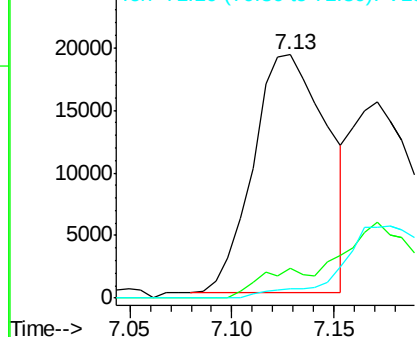


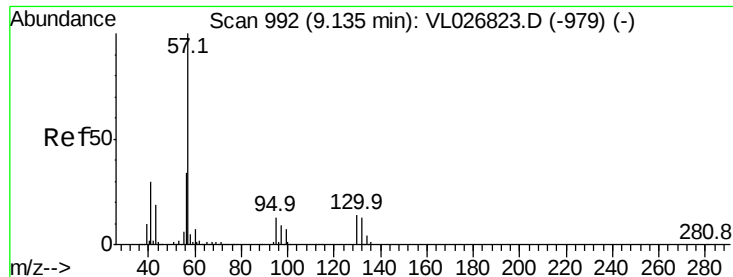
#41
 Tetrahydrofuran
 Concen: 0.47 ppbv
 RT: 7.13 min Scan# 663
 Delta R.T. -0.04 min
 Lab File: VL026849.D
 Acq: 10 Feb 2016 10:54

Tgt Ion: 42 Resp: 48242
 Ion Ratio Lower Upper
 42 100
 72 0.0 33.4 50.0#
 71 0.0 32.1 48.1#



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





#44

2,2,4-Trimethylpentane

Concen: 0.05 ppbv

RT: 9.12 min Scan# 990

Delta R.T. -0.01 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Instrument :

MSVOA_L

ClientSampleId :

KBD-T402-EFF-AIR

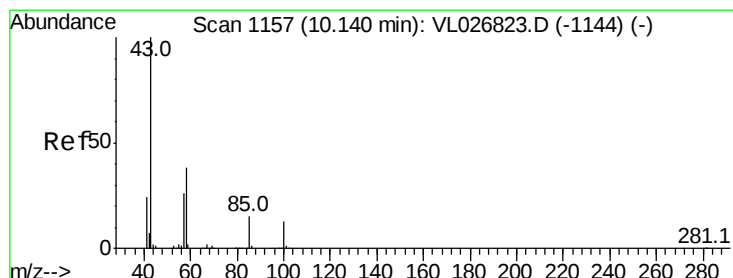
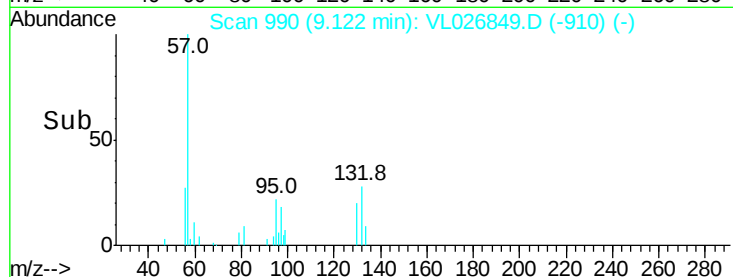
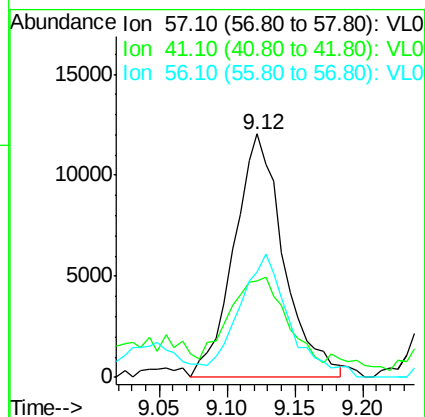
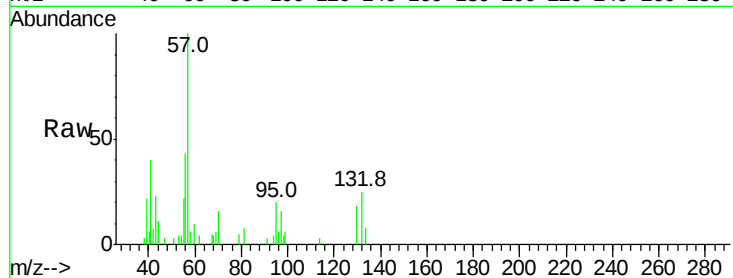
Tgt Ion: 57 Resp: 30738

Ion Ratio Lower Upper

57 100

41 59.8 23.2 34.8#

56 52.7 26.2 39.4#



#50

4-Methyl-2-Pentanone

Concen: 0.14 ppbv

RT: 10.14 min Scan# 1157

Delta R.T. -0.00 min

Lab File: VL026849.D

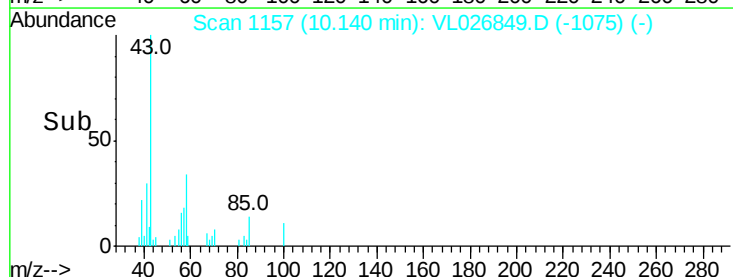
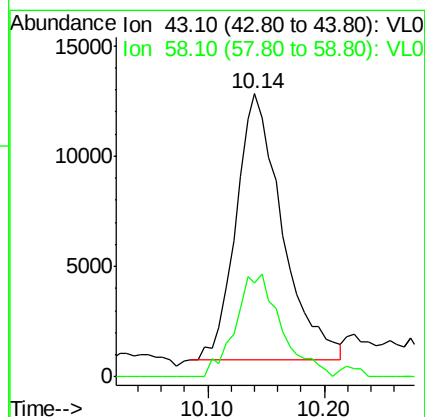
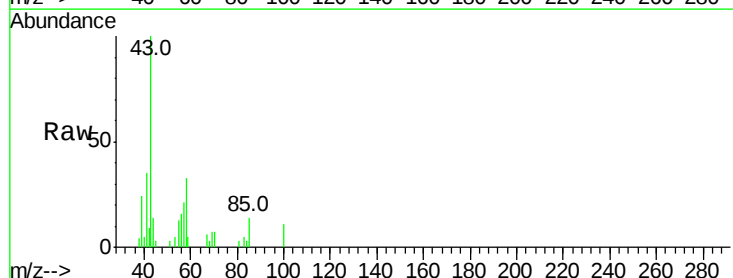
Acq: 10 Feb 2016 10:54

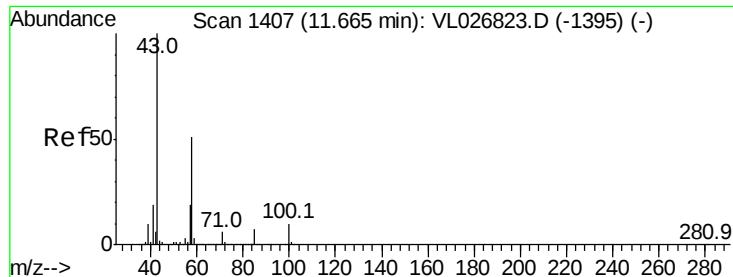
Tgt Ion: 43 Resp: 33351

Ion Ratio Lower Upper

43 100

58 40.1 30.3 45.5





#51

2-Hexanone

Concen: 7.85 ppbv

RT: 11.57 min Scan# 1391

Delta R.T. -0.10 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Instrument :

MSVOA_L

ClientSampleId :

KBD-T402-EFF-AIR

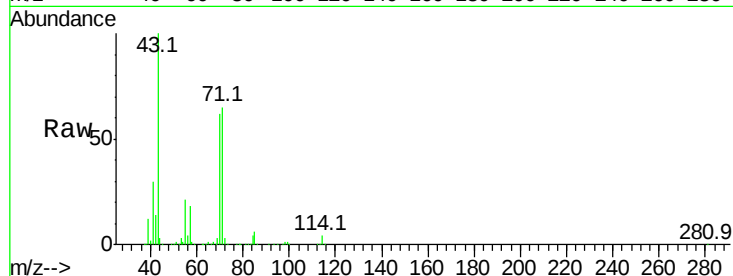
Tgt Ion: 43 Resp: 1609104

Ion Ratio Lower Upper

43 100

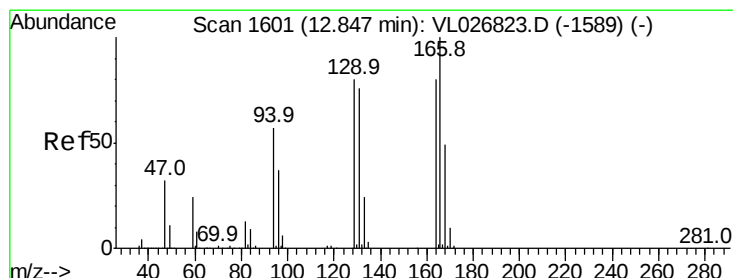
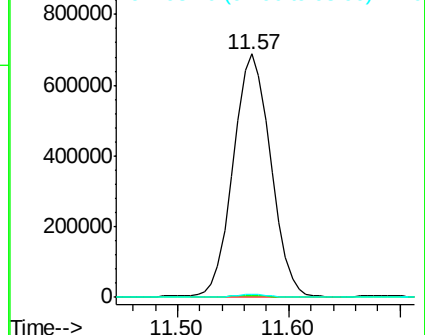
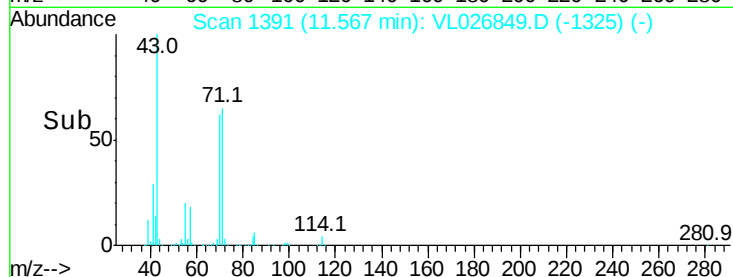
58 0.9 40.4 60.6#

98 1.2 0.2 0.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0

11.57



#52

Tetrachloroethene

Concen: 0.56 ppbv

RT: 12.83 min Scan# 1599

Delta R.T. -0.01 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Tgt Ion: 164 Resp: 74523

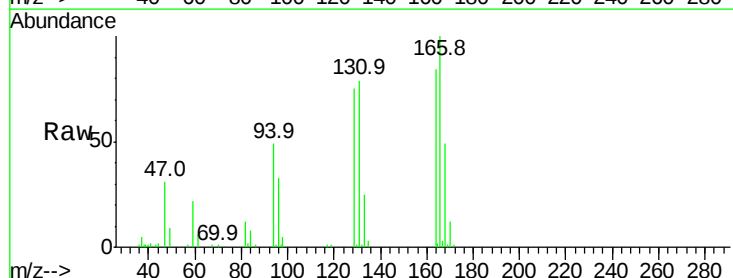
Ion Ratio Lower Upper

164 100

166 119.2 100.3 150.5

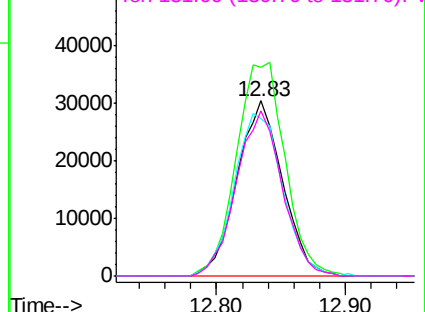
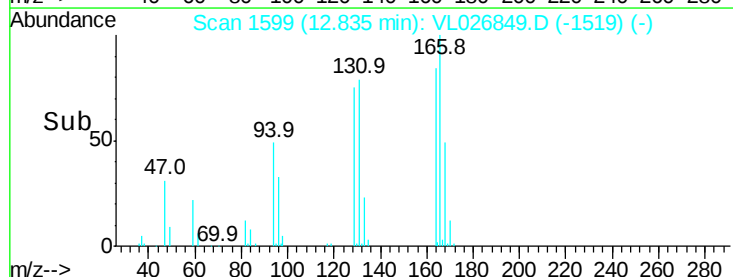
129 89.6 80.0 120.0

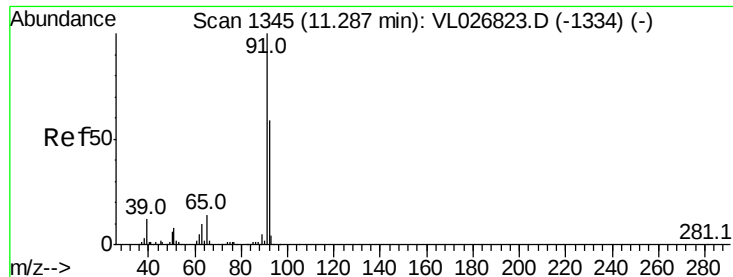
131 95.3 76.7 115.1



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V

12.83





#53

Toluene

Concen: 1.95 ppbv

RT: 11.27 min Scan# 1343

Delta R.T. -0.01 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Instrument :

MSVOA_L

ClientSampleId :

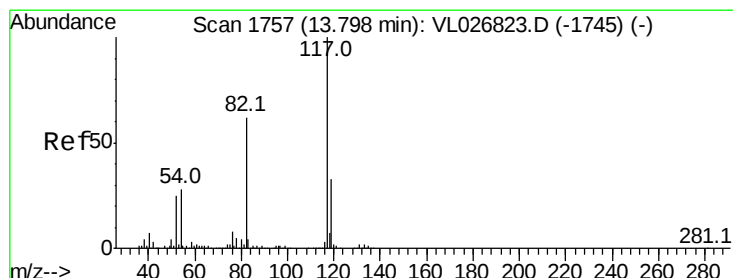
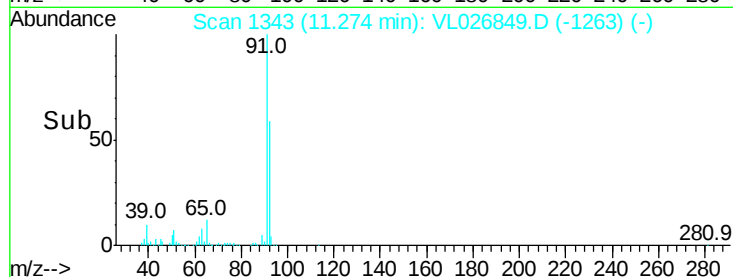
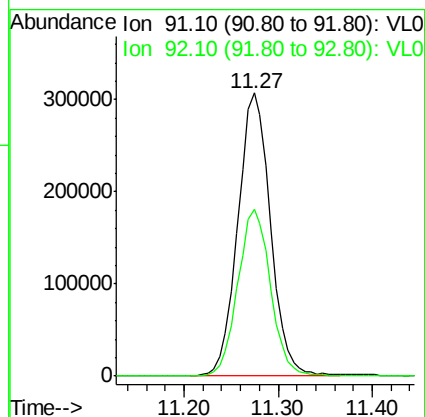
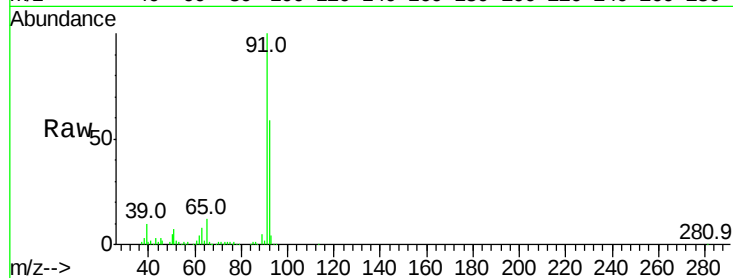
KBD-T402-EFF-AIR

Tgt Ion: 91 Resp: 738528

Ion Ratio Lower Upper

91 100

92 60.0 47.3 70.9



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.79 min Scan# 1755

Delta R.T. -0.01 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

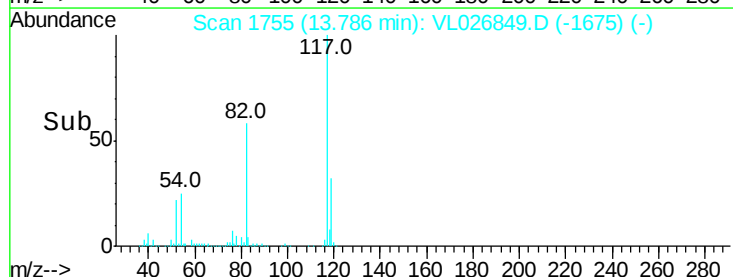
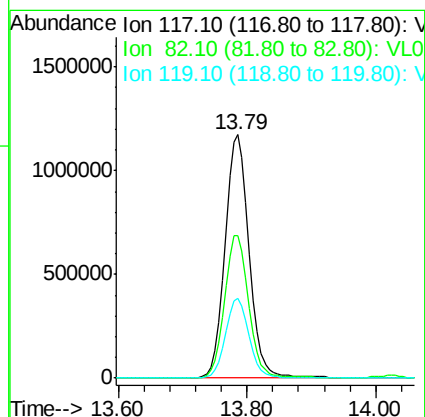
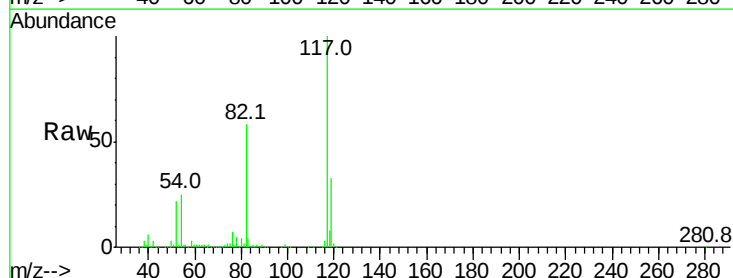
Tgt Ion: 117 Resp: 3094010

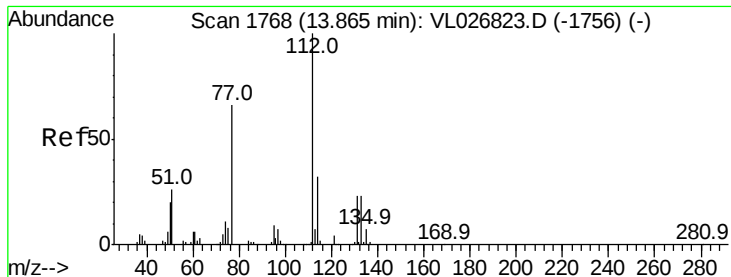
Ion Ratio Lower Upper

117 100

82 59.5 51.9 77.9

119 32.6 48.5 72.7#





#57

Chlorobenzene

Concen: 0.03 ppbv

RT: 13.87 min Scan# 1769

Delta R.T. 0.01 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Instrument :

MSVOA_L

ClientSampleId :

KBD-T402-EFF-AIR

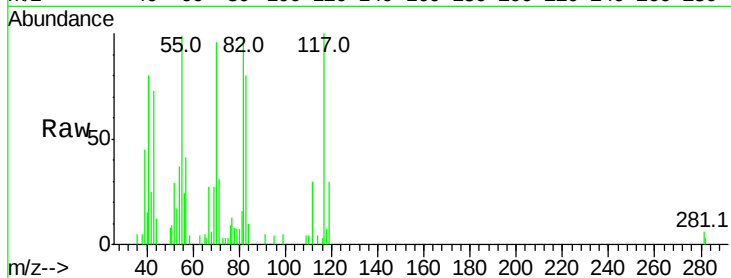
Tgt Ion: 112 Resp: 8670

Ion Ratio Lower Upper

112 100

77 43.3 53.3 79.9#

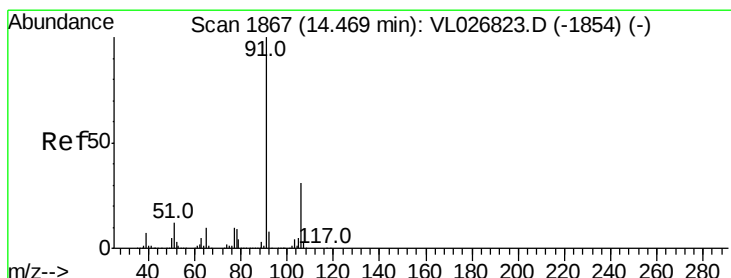
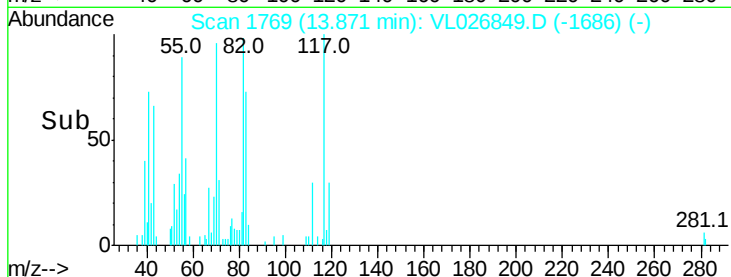
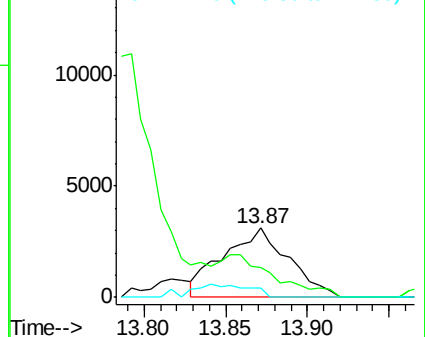
114 14.0 28.9 35.3#



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 0.09 ppbv

RT: 14.46 min Scan# 1865

Delta R.T. -0.01 min

Lab File: VL026849.D

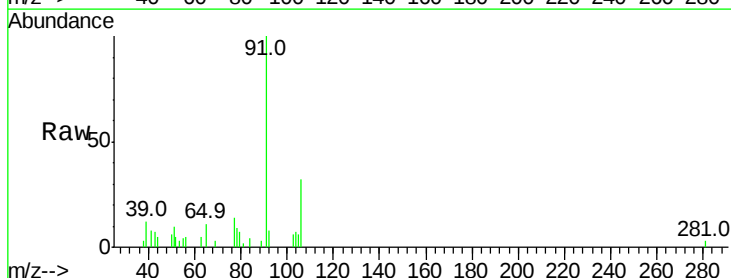
Acq: 10 Feb 2016 10:54

Tgt Ion: 91 Resp: 32772

Ion Ratio Lower Upper

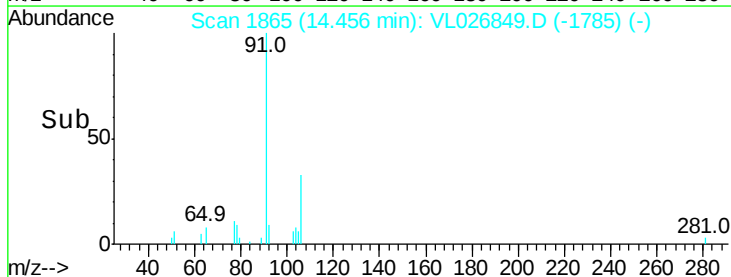
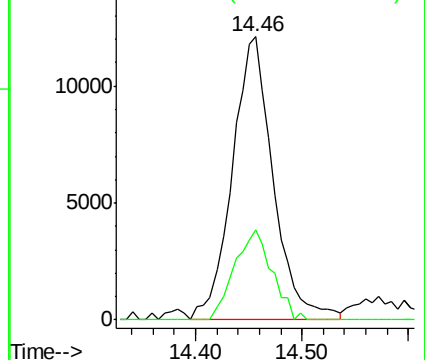
91 100

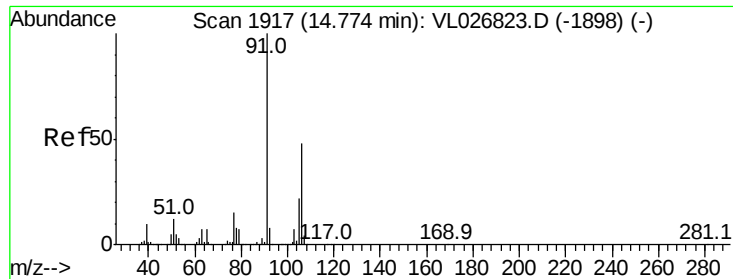
106 32.0 24.9 37.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 0.08 ppbv

RT: 14.77 min Scan# 1916

Delta R.T. -0.01 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Instrument :

MSVOA_L

ClientSampleId :

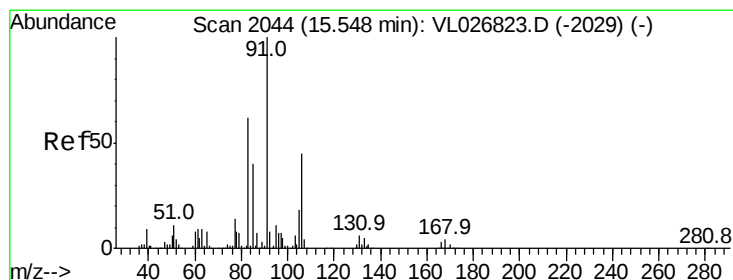
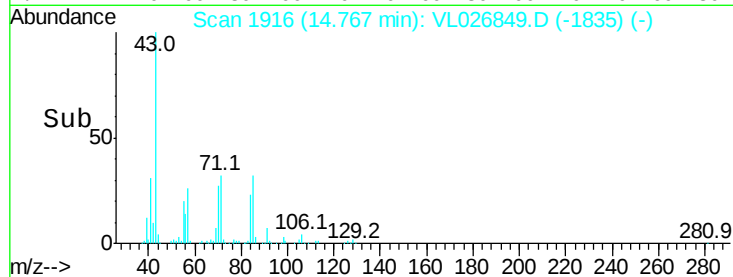
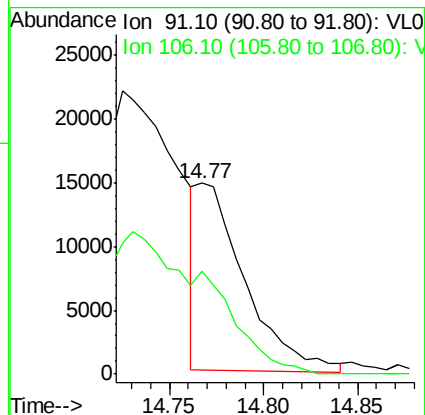
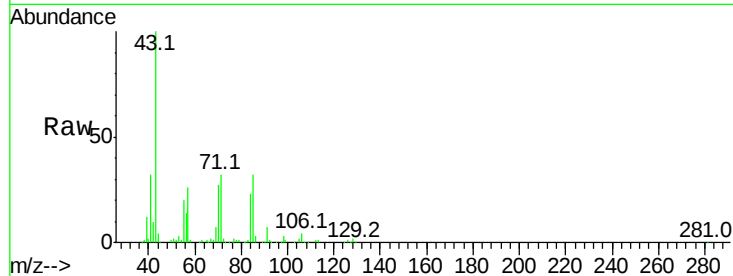
KBD-T402-EFF-AIR

Tgt Ion: 91 Resp: 25721

Ion Ratio Lower Upper

91 100

106 0.0 38.2 57.2#



#60

o-Xylene

Concen: 0.10 ppbv

RT: 15.53 min Scan# 2041

Delta R.T. -0.02 min

Lab File: VL026849.D

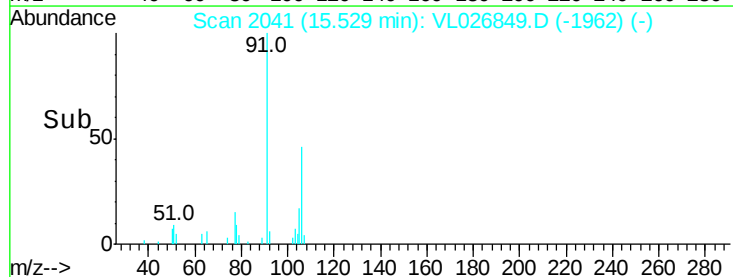
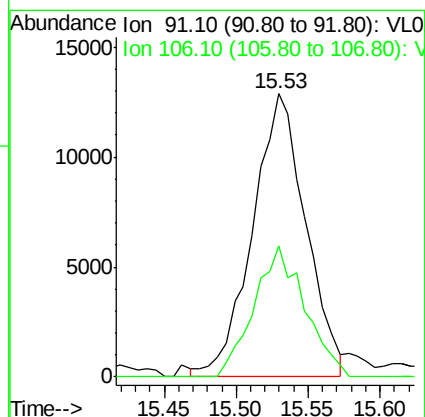
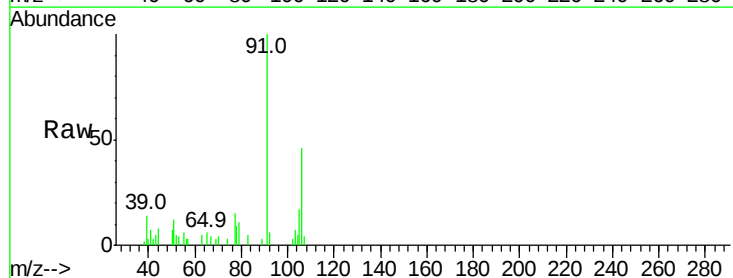
Acq: 10 Feb 2016 10:54

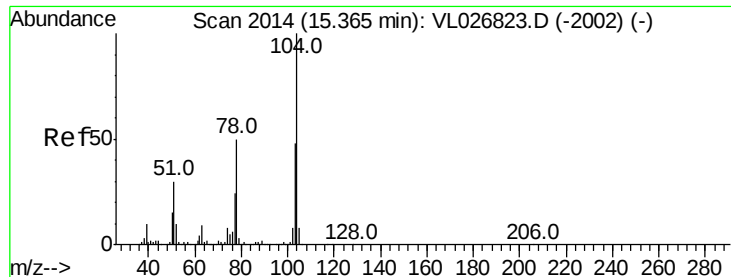
Tgt Ion: 91 Resp: 33100

Ion Ratio Lower Upper

91 100

106 44.0 22.3 66.8





#61

Styrene

Concen: 1.15 ppbv

RT: 15.35 min Scan# 2012

Delta R.T. -0.01 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Instrument :

MSVOA_L

ClientSampleId :

KBD-T402-EFF-AIR

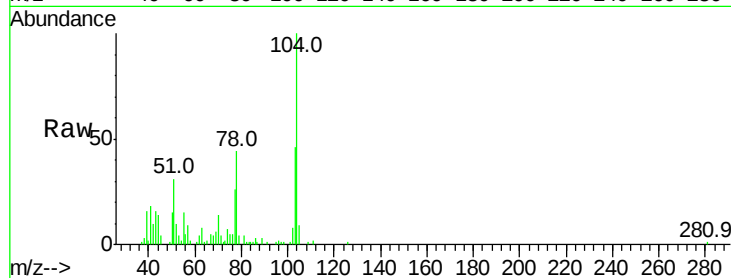
Tgt Ion:104 Resp: 135380

Ion Ratio Lower Upper

104 100

78 47.6 39.8 59.6

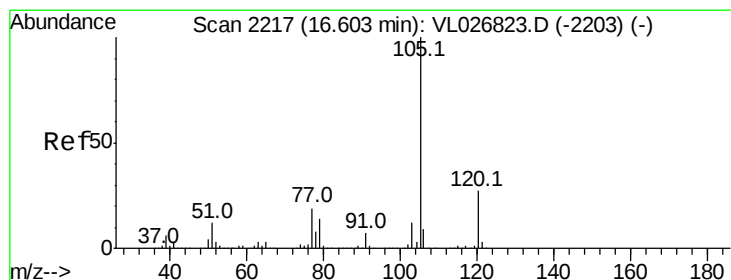
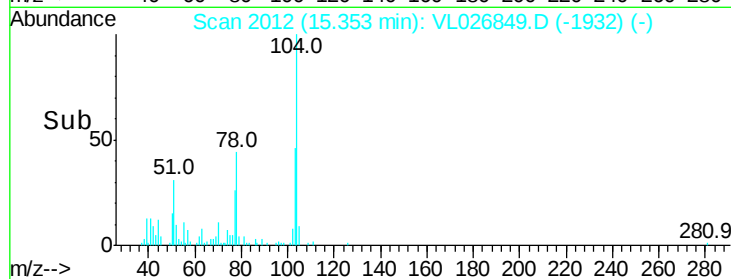
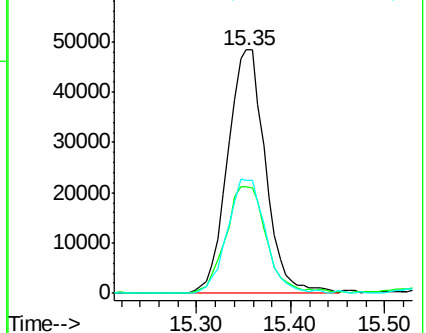
103 47.2 38.2 57.4



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: 0.37 ppbv

RT: 16.59 min Scan# 2215

Delta R.T. -0.01 min

Lab File: VL026849.D

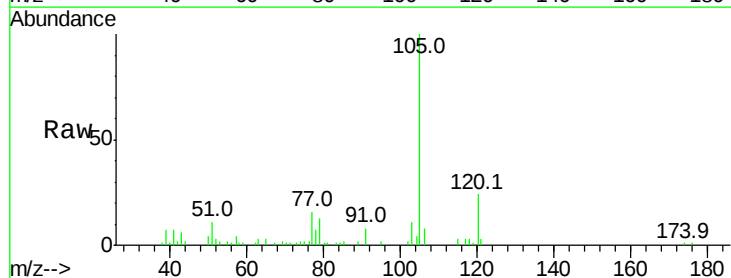
Acq: 10 Feb 2016 10:54

Tgt Ion:105 Resp: 154109

Ion Ratio Lower Upper

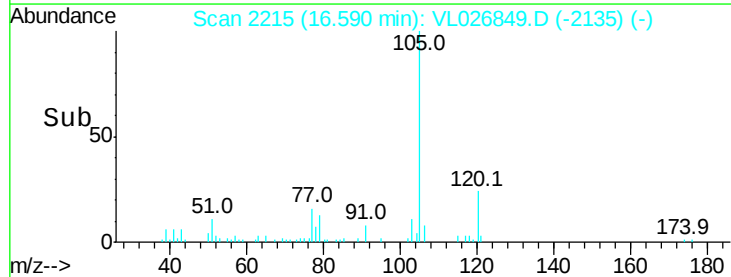
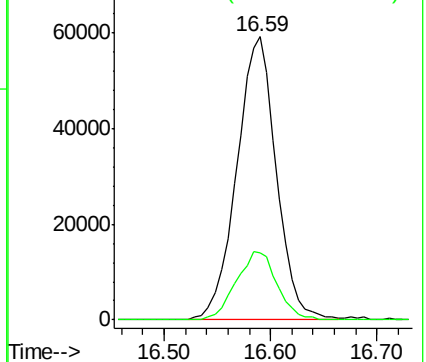
105 100

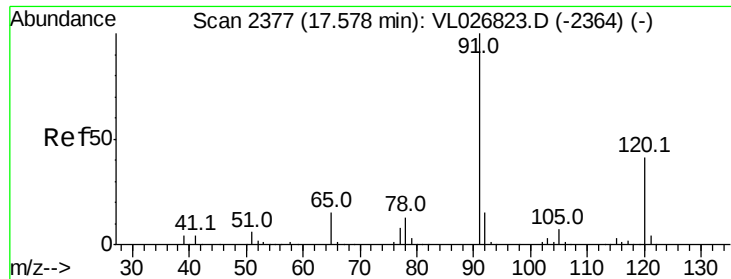
120 24.8 21.0 31.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#64

n-propylbenzene

Concen: 0.51 ppbv

RT: 17.56 min Scan# 2374

Delta R.T. -0.02 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Instrument :

MSVOA_L

ClientSampleId :

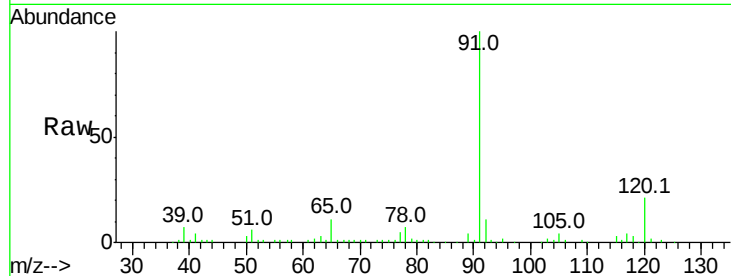
KBD-T402-EFF-AIR

Tgt Ion:120 Resp: 54400

Ion Ratio Lower Upper

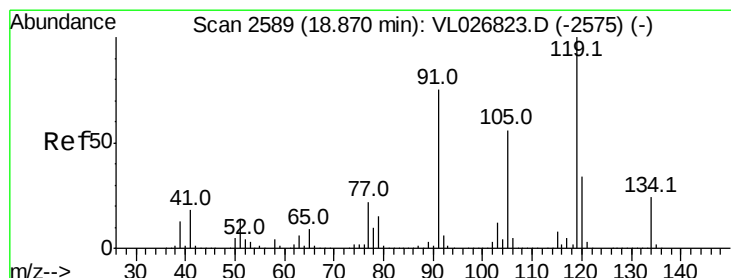
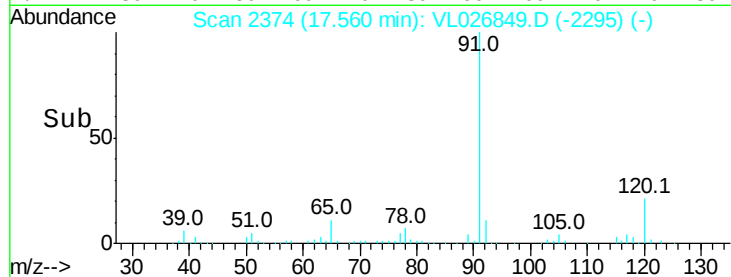
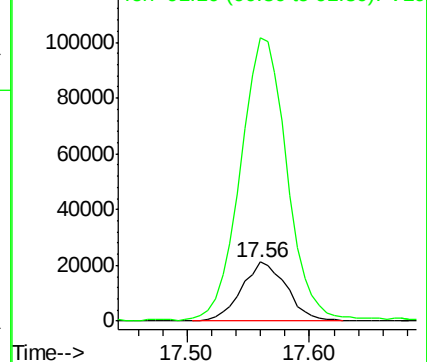
120 100

91 505.0 363.0 544.6



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.11 ppbv

RT: 18.85 min Scan# 2586

Delta R.T. -0.02 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

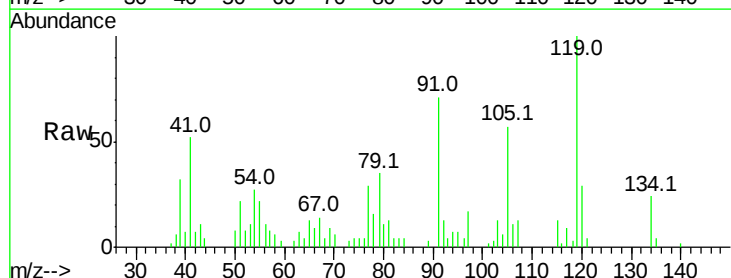
Tgt Ion:119 Resp: 43001

Ion Ratio Lower Upper

119 100

91 79.5 61.5 92.3

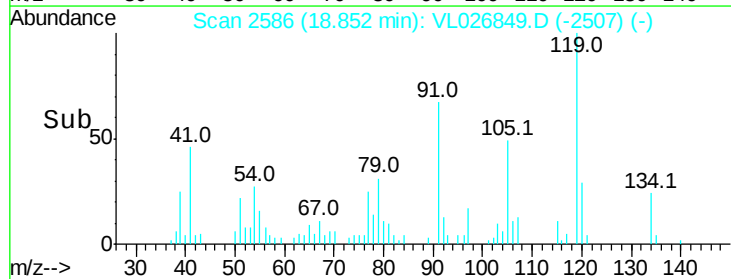
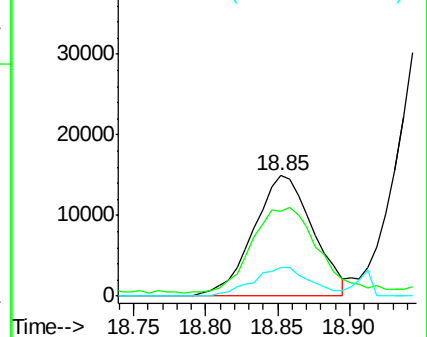
134 28.5 17.9 26.9#

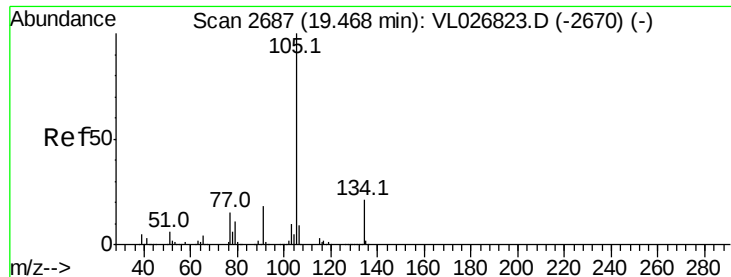


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V





#67

sec-Butylbenzene

Concen: 0.51 ppbv

RT: 19.45 min Scan# 2684

Delta R.T. -0.02 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Instrument :

MSVOA_L

ClientSampleId :

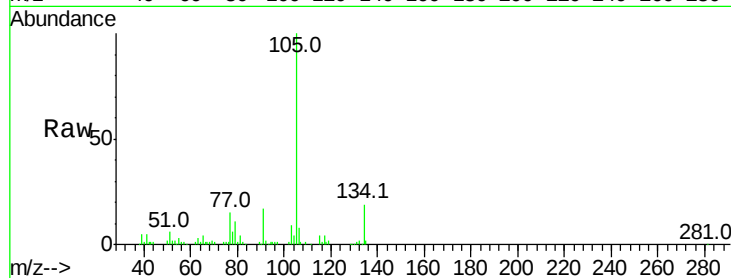
KBD-T402-EFF-AIR

Tgt Ion: 105 Resp: 255943

Ion Ratio Lower Upper

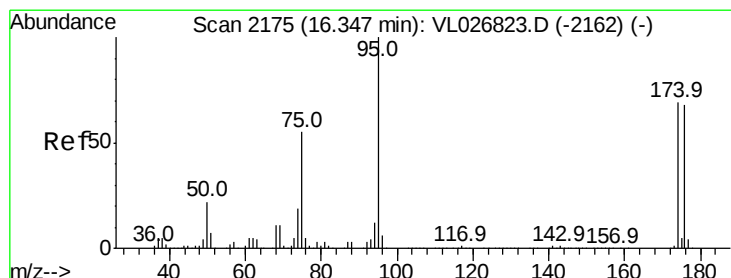
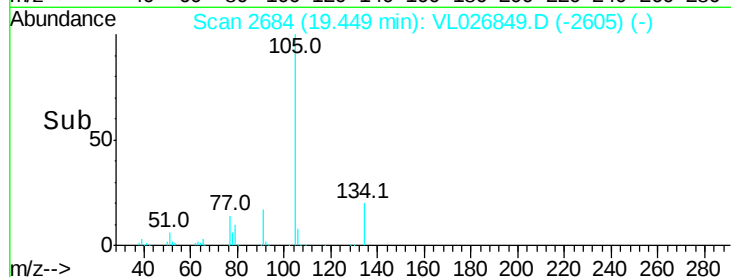
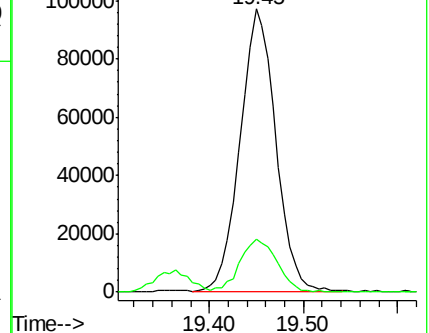
105 100

134 19.5 16.1 24.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 11.42 ppbv

RT: 16.33 min Scan# 2172

Delta R.T. -0.02 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

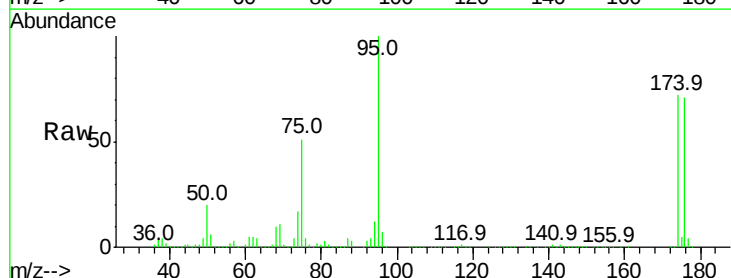
Tgt Ion: 95 Resp: 2536495

Ion Ratio Lower Upper

95 100

174 73.6 55.6 83.4

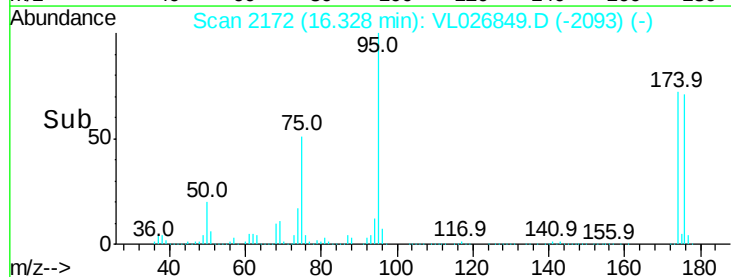
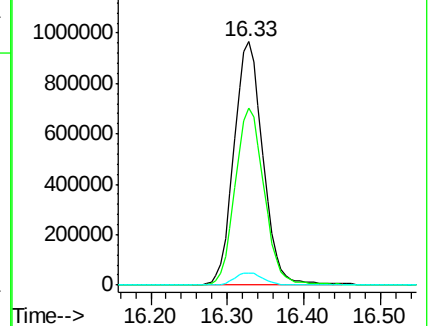
175 5.1 3.9 5.9

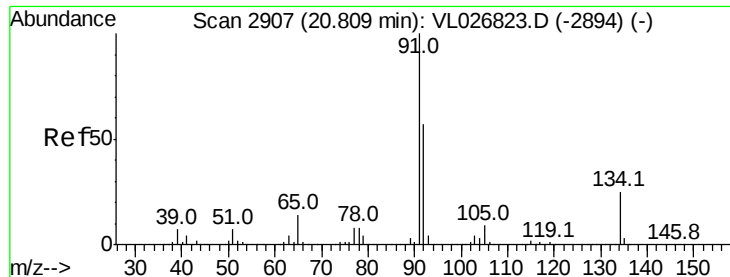


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

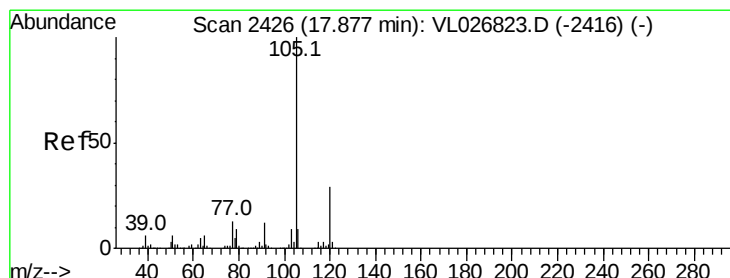
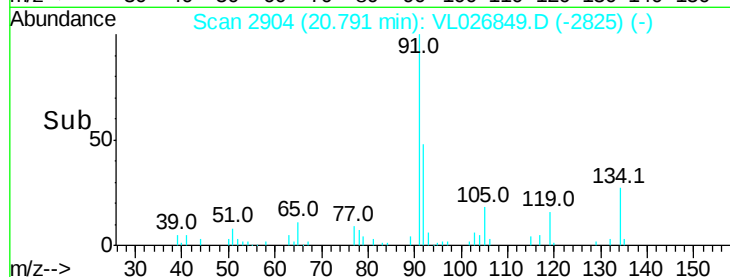
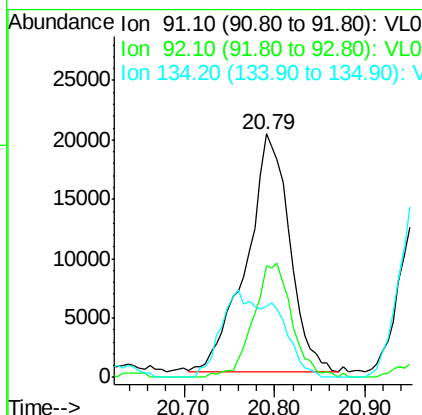
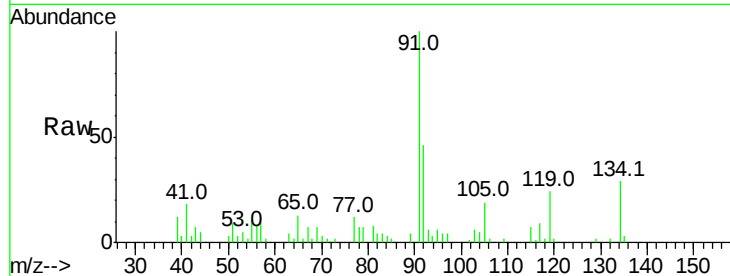




#70
n-Butylbenzene
Concen: 0.17 ppbv
RT: 20.79 min Scan# 2904
Delta R.T. -0.02 min
Lab File: VL026849.D
Acq: 10 Feb 2016 10:54

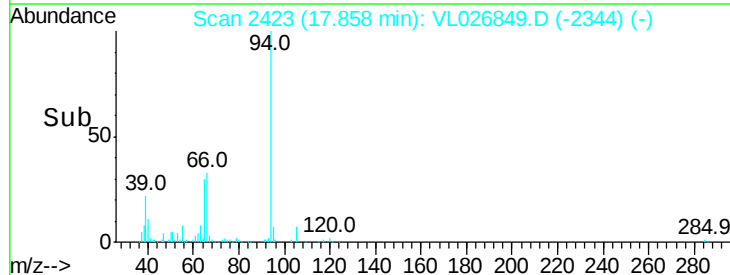
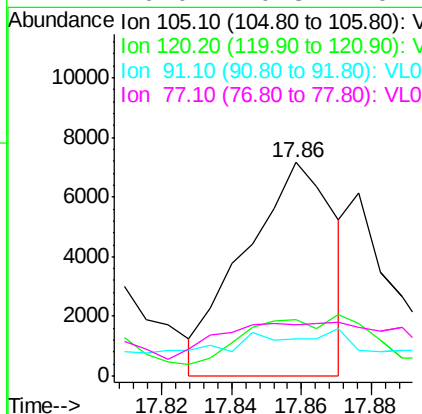
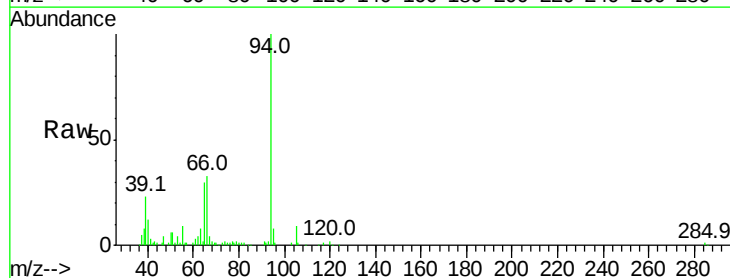
Instrument :
MSVOA_L
ClientSampleId :
KBD-T402-EFF-AIR

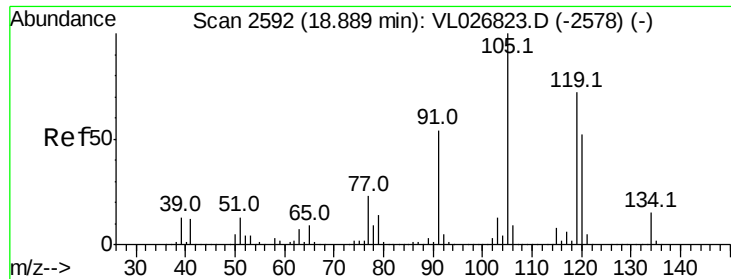
Tgt Ion: 91 Resp: 65659
Ion Ratio Lower Upper
91 100
92 43.0 44.2 66.4#
134 48.8 19.3 28.9#



#72
4-Ethyltoluene
Concen: 0.04 ppbv
RT: 17.86 min Scan# 2423
Delta R.T. -0.02 min
Lab File: VL026849.D
Acq: 10 Feb 2016 10:54

Tgt Ion: 105 Resp: 12760
Ion Ratio Lower Upper
105 100
120 0.0 23.8 35.6#
91 0.0 10.2 15.4#
77 0.0 10.8 16.2#





#74

1,2,4-Trimethylbenzene

Concen: 0.13 ppbv

RT: 18.87 min Scan# 2589

Delta R.T. -0.02 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

Instrument :

MSVOA_L

ClientSampleId :

KBD-T402-EFF-AIR

Tgt Ion:105 Resp: 44684

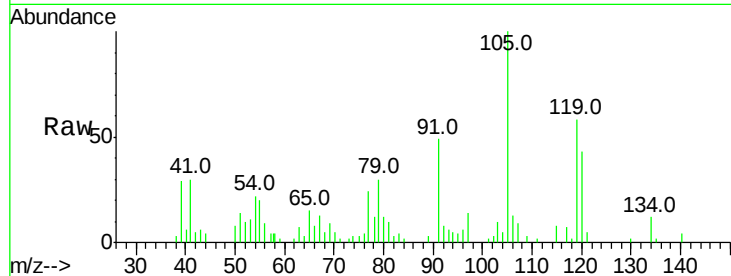
Ion Ratio Lower Upper

105 100

120 40.4 41.3 61.9#

91 42.0 43.3 64.9#

77 16.4 18.3 27.5#

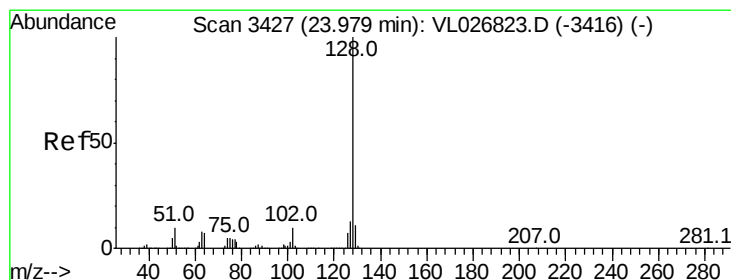
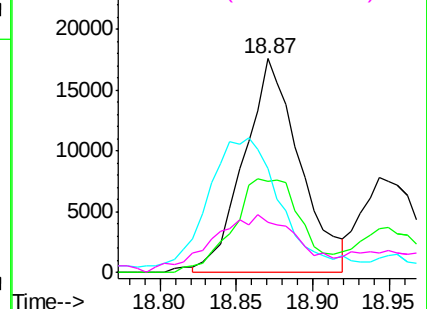
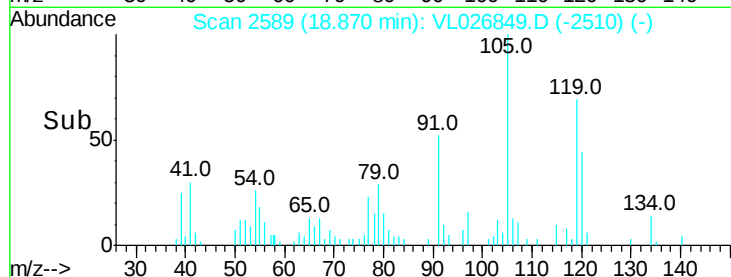


Abundance Ion 105.10 (104.80 to 105.80): V

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



#79

Naphthalene

Concen: 0.22 ppbv

RT: 23.97 min Scan# 3426

Delta R.T. -0.01 min

Lab File: VL026849.D

Acq: 10 Feb 2016 10:54

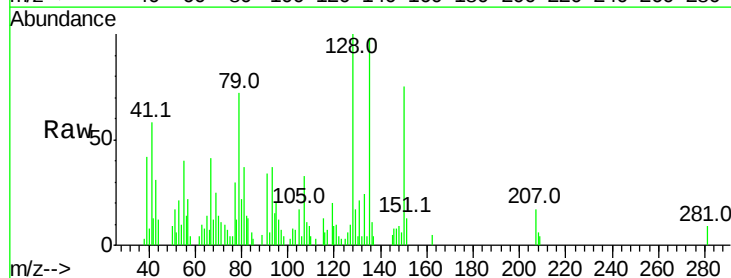
Tgt Ion:128 Resp: 37951

Ion Ratio Lower Upper

128 100

127 4.6 10.0 15.0#

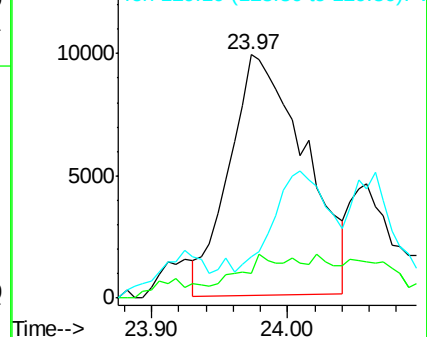
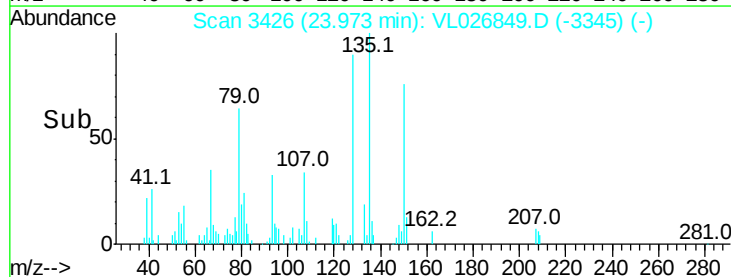
129 0.2 8.7 13.1#

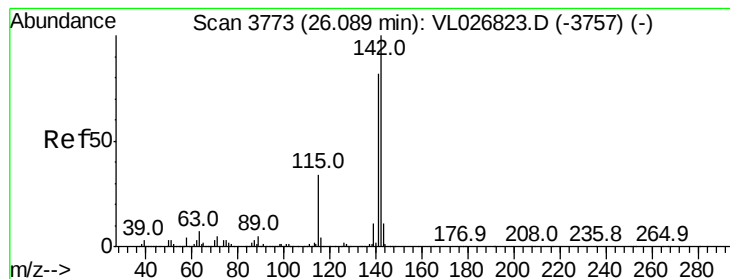


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V





#80

Naphthalene, 2-methyl-

Concen: 0.47 ppbv

RT: 26.09 min Scan# 3773

Delta R.T. -0.00 min

Lab File: VL026849.D

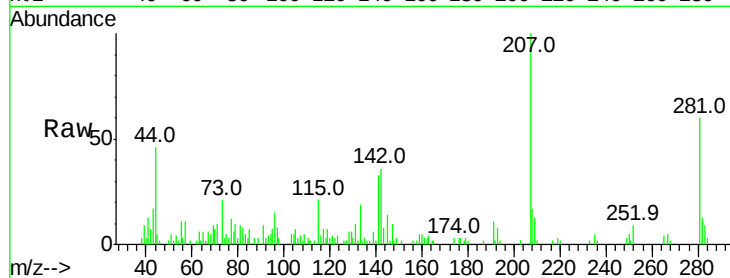
Acq: 10 Feb 2016 10:54

Instrument :

MSVOA_L

ClientSampleId :

KBD-T402-EFF-AIR



Tgt Ion:	142	Resp:	32626
Ion	Ratio	Lower	Upper
142	100		
141	63.0	67.2	100.8#
115	58.1	27.5	41.3#

