

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021419\
 Data File : VL033219.D
 Acq On : 15 Feb 2019 4:50
 Operator : SY/AP
 Sample : K1483-08
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENT

Quant Time: Feb 15 15:54:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL020519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 06 09:13:11 2019
 QLast Update : Wed Feb 06 09:13:11 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	863415	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1950659	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1930488	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1533711	10.32	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.20%

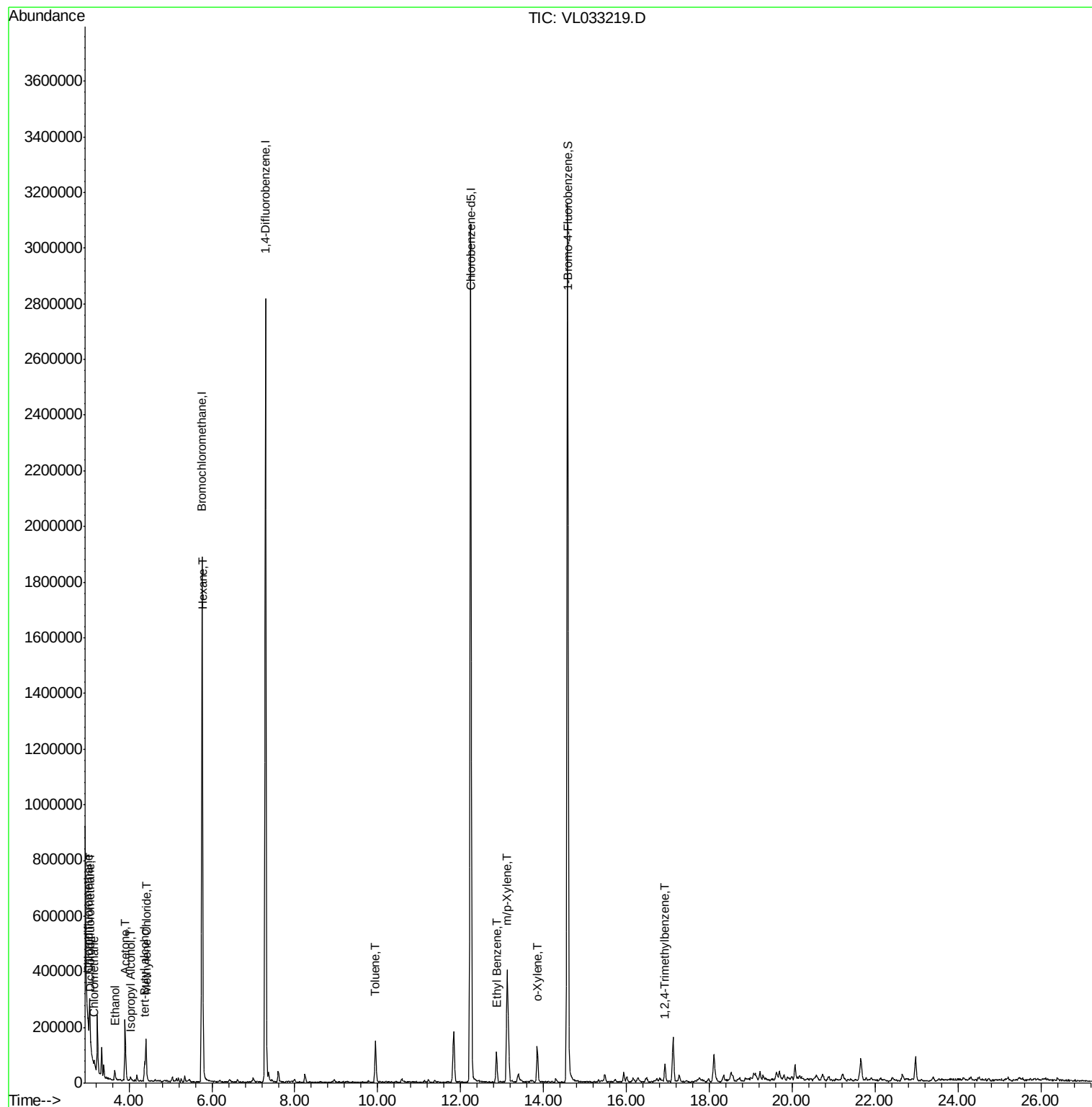
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	21299	0.129	ppbv	95
3) Chlorodifluoromethane	3.02	51	26715m	0.257	ppbv	
4) Chloromethane	3.17	50	7128	0.130	ppbv #	76
13) Ethanol	3.66	45	35899m	2.144	ppbv	
15) Acetone	3.90	43	216981	2.231	ppbv	94
17) tert-Butyl alcohol	4.38	59	53447m	2.882	ppbv	
19) Isopropyl Alcohol	4.04	45	15109m	0.229	ppbv	
20) Methylene Chloride	4.41	84	44809	1.158	ppbv	96
26) Hexane	5.78	57	58782	0.573	ppbv #	42
53) Toluene	9.94	91	110364	0.471	ppbv	97
58) Ethyl Benzene	12.87	91	90978	0.291	ppbv	96
59) m/p-Xylene	13.12	91	430547	1.651	ppbv #	100
60) o-Xylene	13.85	91	97300	0.384	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	43508m	0.150	ppbv	

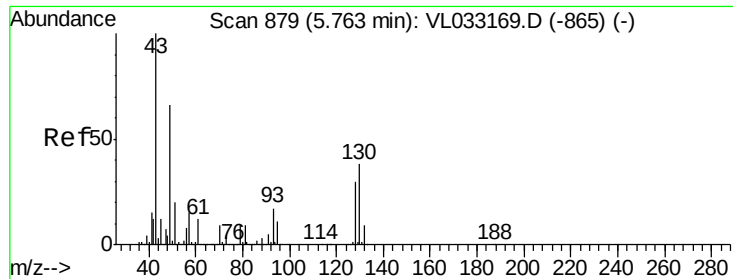
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 15 15:54:08 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL020519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 06 09:13:11 2019
QLast Update : Wed Feb 06 09:13:11 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033219.D

Acq: 15 Feb 2019 4:50

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENT

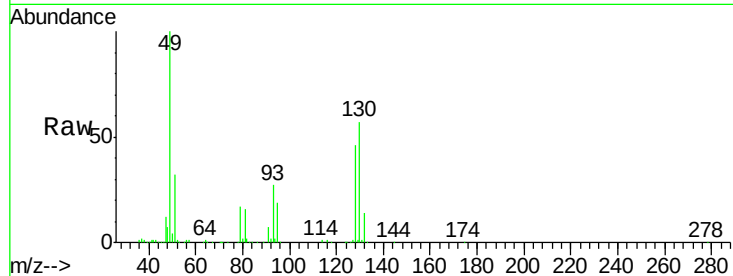
Tot Ion: 49 Resp: 863415

Ion Ratio Lower Upper

49 100

128 46.2 23.6 71.0

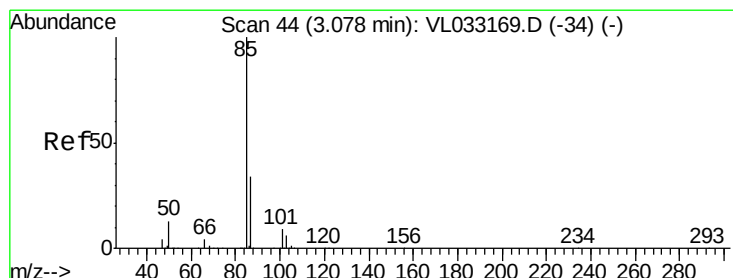
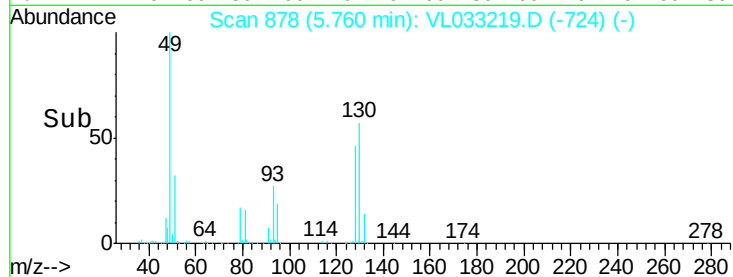
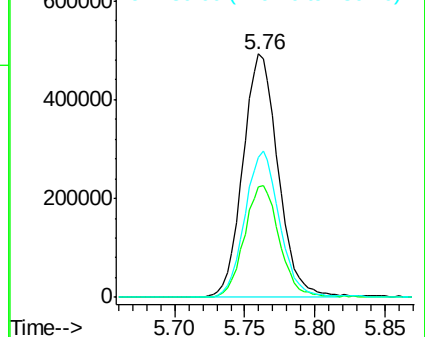
130 59.3 30.3 91.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.129 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033219.D

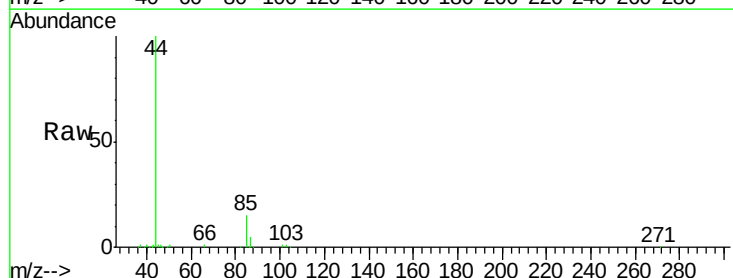
Acq: 15 Feb 2019 4:50

Tgt Ion: 85 Resp: 21299

Ion Ratio Lower Upper

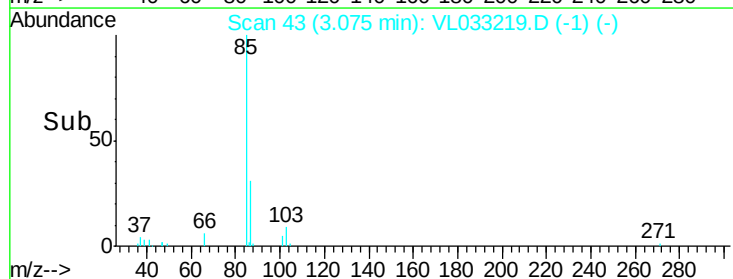
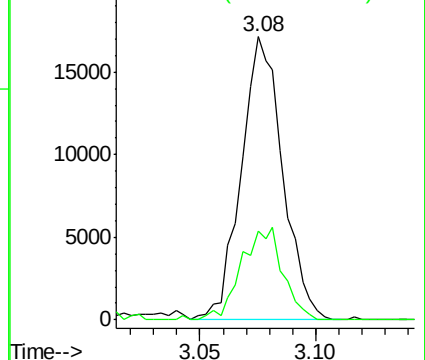
85 100

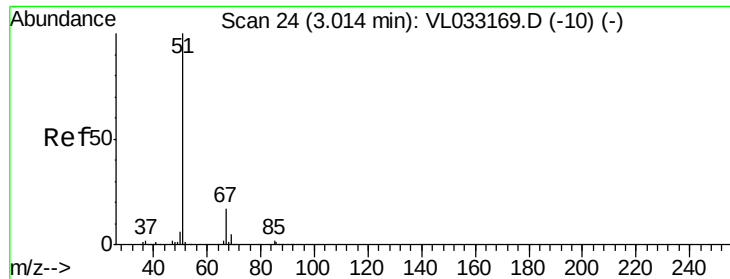
87 31.4 27.4 41.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0



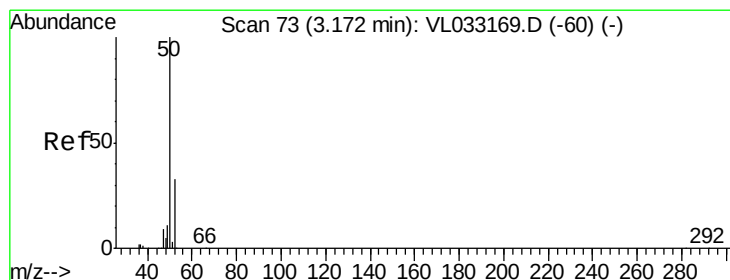
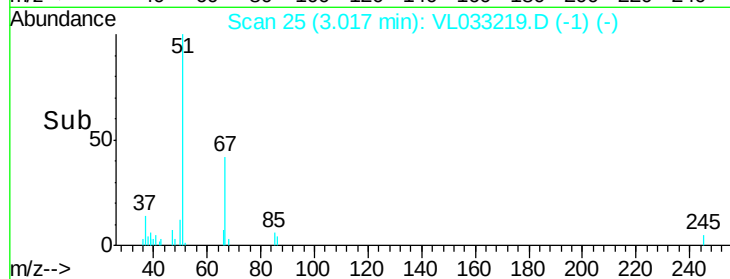
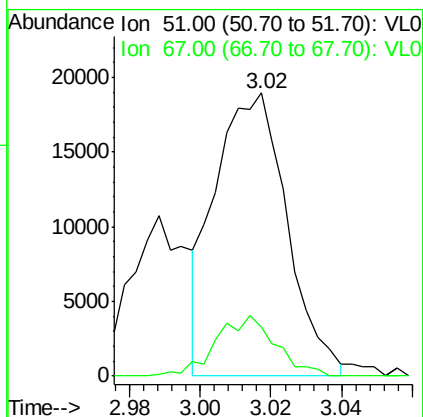
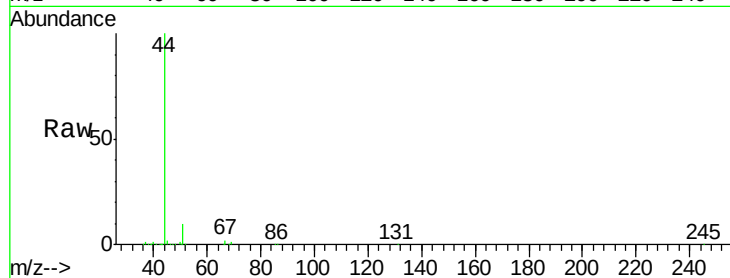


#3

Chlorodifluoromethane
 Concen: 0.257 ppbv
 RT: 3.02 min Scan# 25
 Delta R.T. 0.00 min
 Lab File: VL033219.D
 Acq: 15 Feb 2019 4:50

Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENT

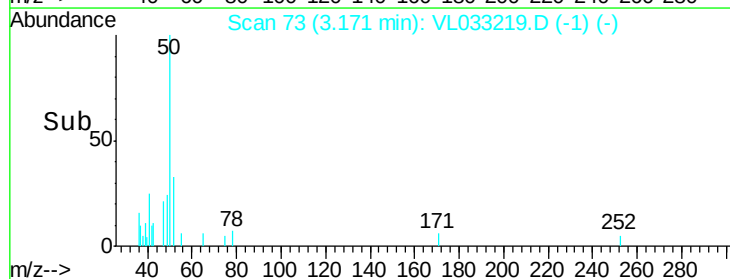
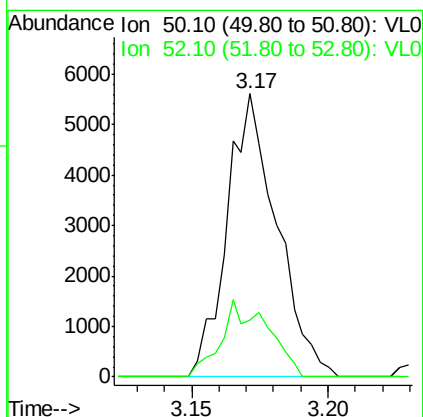
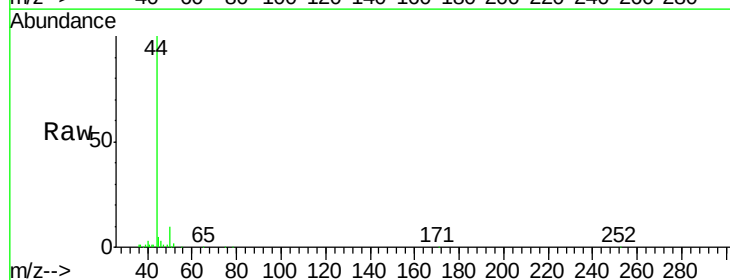
Tot Ion: 51 Resp: 26715
 Ion Ratio Lower Upper
 51 100
 67 17.9 14.0 21.0

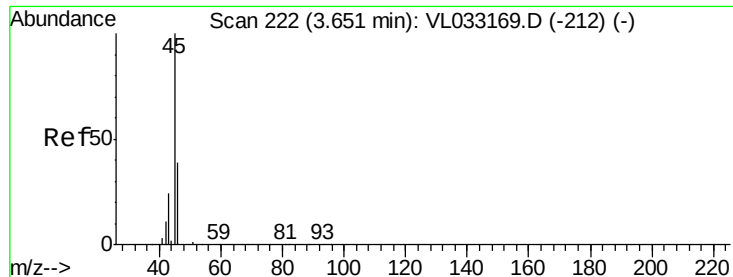


#4

Chloromethane
 Concen: 0.130 ppbv
 RT: 3.17 min Scan# 73
 Delta R.T. -0.00 min
 Lab File: VL033219.D
 Acq: 15 Feb 2019 4:50

Tgt Ion: 50 Resp: 7128
 Ion Ratio Lower Upper
 50 100
 52 19.4 26.5 39.7#





#13

Ethanol

Concen: 2.144 ppbv m

RT: 3.66 min Scan# 225

Delta R.T. 0.01 min

Lab File: VL033219.D

Acq: 15 Feb 2019 4:50

Instrument :

MSVOA_L

ClientSampleId :

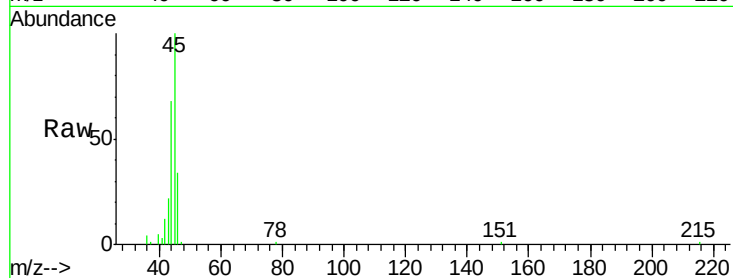
EFFLUENT

Tot Ion: 45 Resp: 35899

Ion Ratio Lower Upper

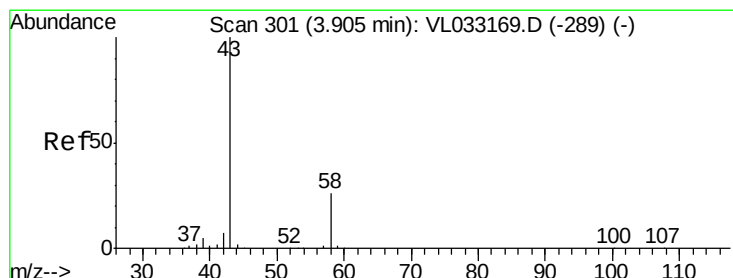
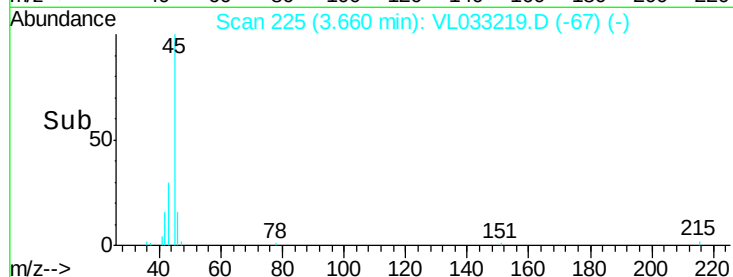
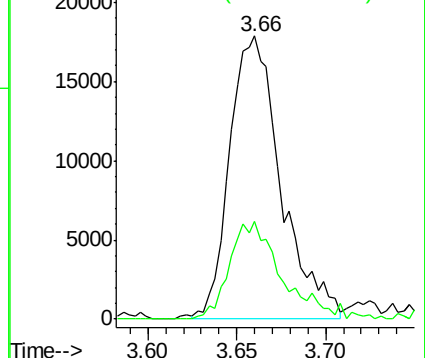
45 100

46 35.2 15.0 60.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#15

Acetone

Concen: 2.231 ppbv

RT: 3.90 min Scan# 301

Delta R.T. -0.00 min

Lab File: VL033219.D

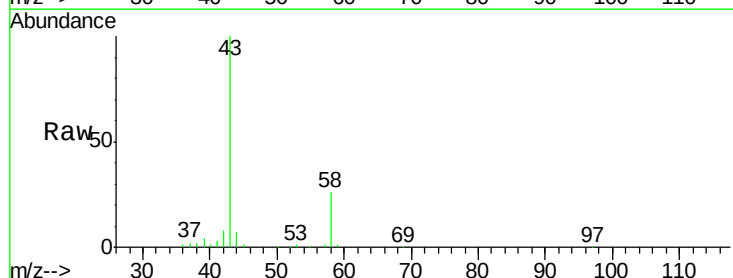
Acq: 15 Feb 2019 4:50

Tgt Ion: 43 Resp: 216981

Ion Ratio Lower Upper

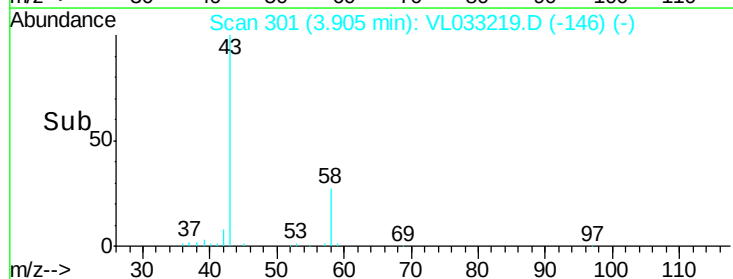
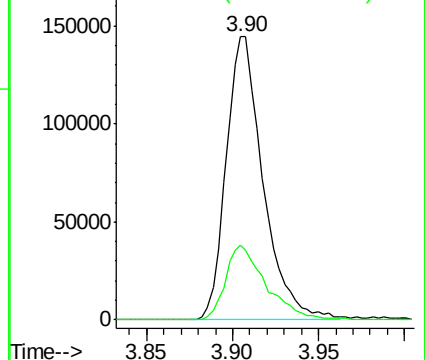
43 100

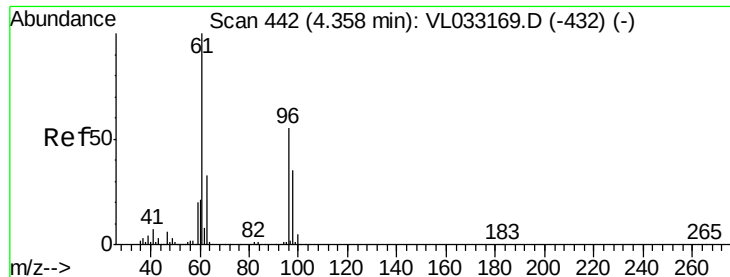
58 29.4 21.1 31.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#17

tert-Butyl alcohol

Concen: 2.882 ppbv m

RT: 4.38 min Scan# 448

Delta R.T. 0.02 min

Lab File: VL033219.D

Acq: 15 Feb 2019 4:50

Instrument :

MSVOA_L

ClientSampleId :

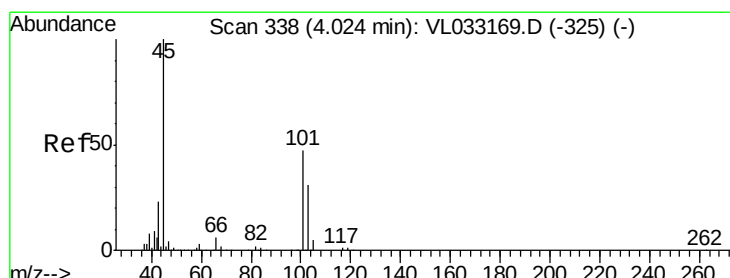
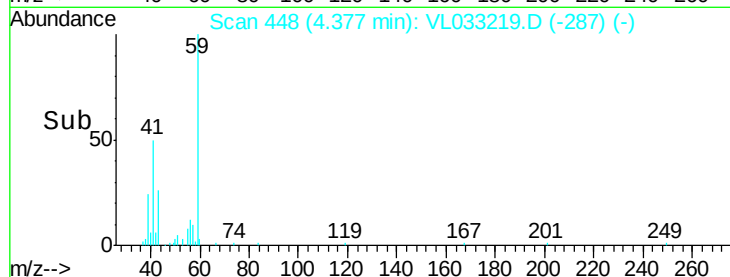
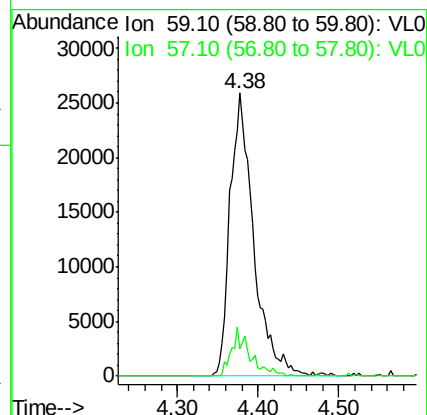
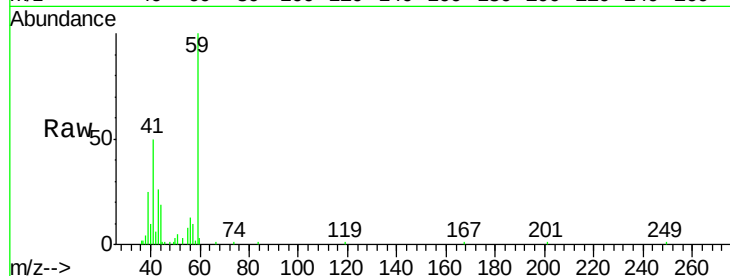
EFFLUENT

Tot Ion: 59 Resp: 53447

Ion Ratio Lower Upper

59 100

57 0.0 7.6 11.4#



#19

Isopropyl Alcohol

Concen: 0.229 ppbv m

RT: 4.04 min Scan# 343

Delta R.T. 0.02 min

Lab File: VL033219.D

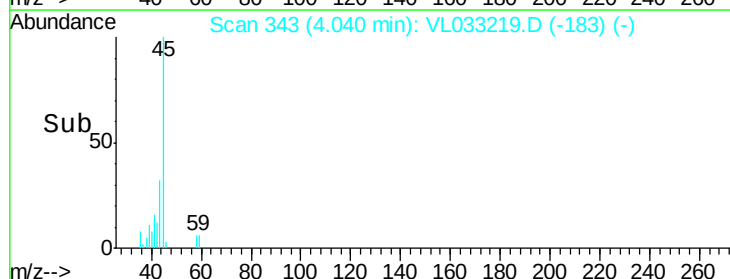
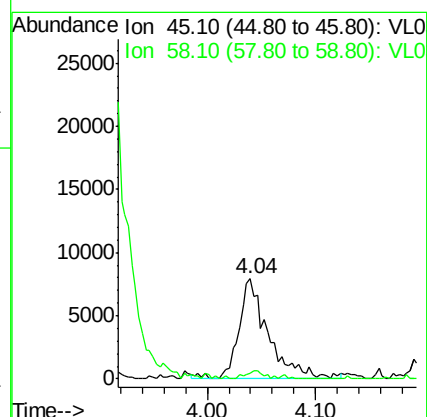
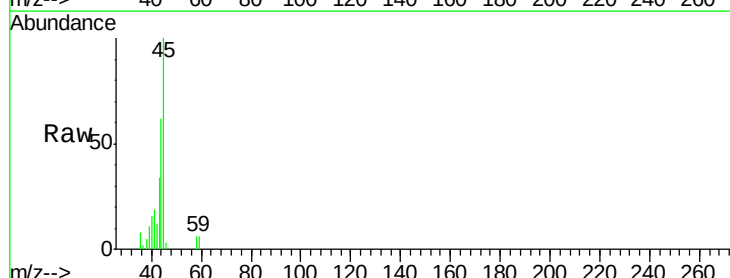
Acq: 15 Feb 2019 4:50

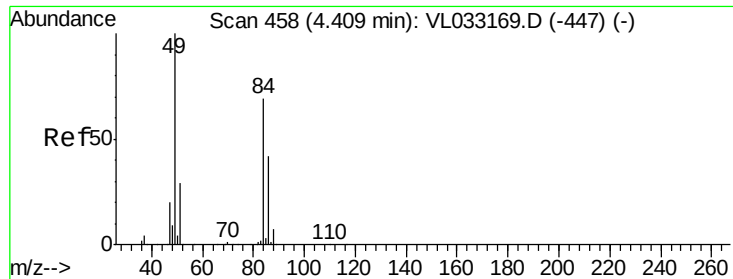
Tgt Ion: 45 Resp: 15109

Ion Ratio Lower Upper

45 100

58 0.0 1.5 2.3#

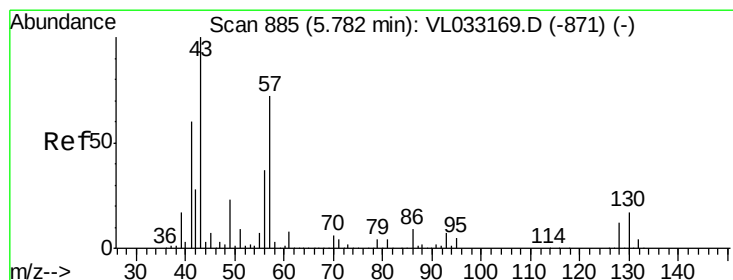
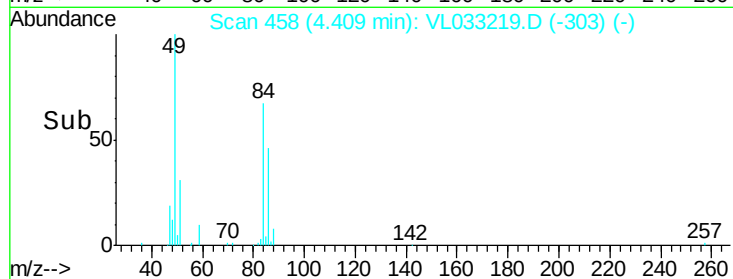
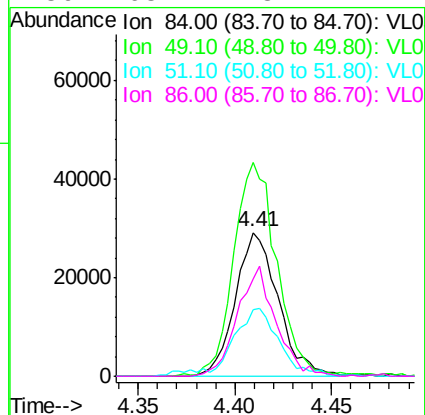
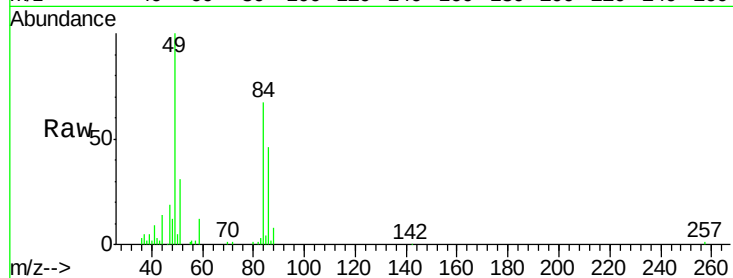




#20
Methylene Chloride
Concen: 1.158 ppbv
RT: 4.41 min Scan# 458
Delta R.T. -0.00 min
Lab File: VL033219.D
Acq: 15 Feb 2019 4:50

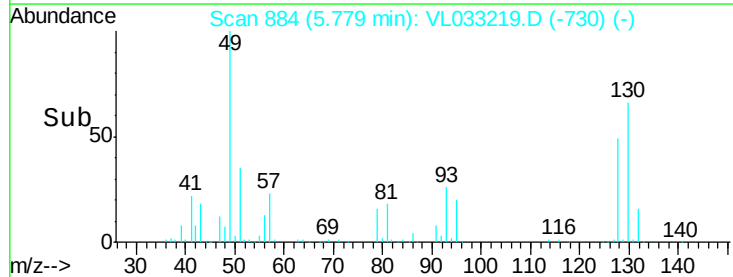
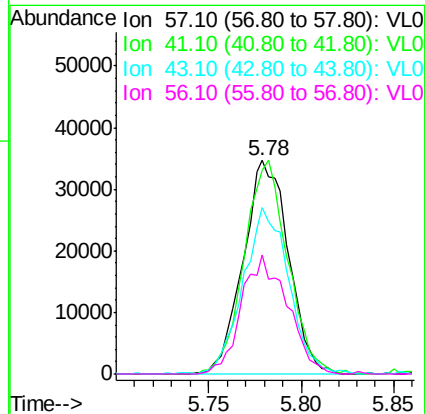
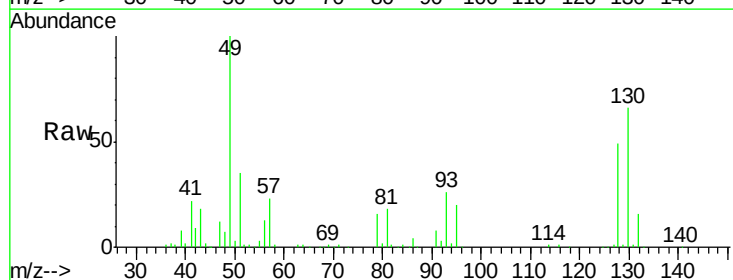
Instrument :
MSVOA_L
ClientSampleId :
EFFLUENT

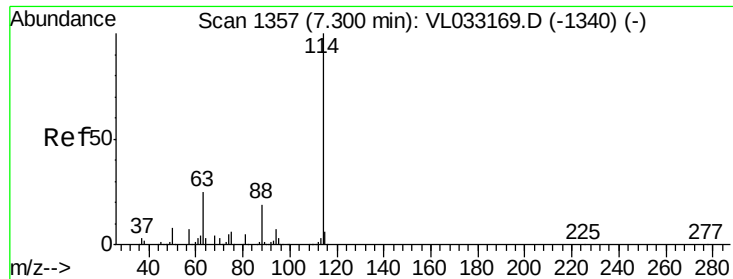
Tot Ion: 84 Resp: 44809
Ion Ratio Lower Upper
84 100
49 146.4 115.8 173.8
51 45.4 33.0 49.6
86 68.2 48.2 72.2



#26
Hexane
Concen: 0.573 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033219.D
Acq: 15 Feb 2019 4:50

Tgt Ion: 57 Resp: 58782
Ion Ratio Lower Upper
57 100
41 96.7 69.4 104.2
43 78.7 176.7 265.1#
56 56.6 41.4 62.0

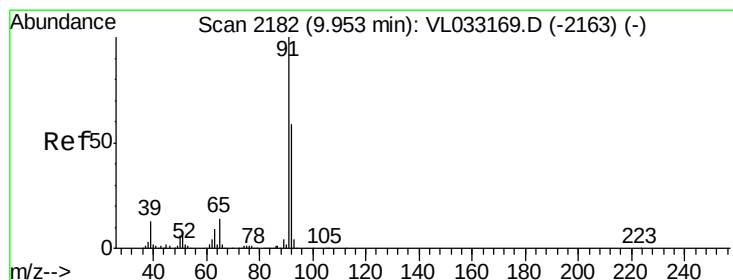
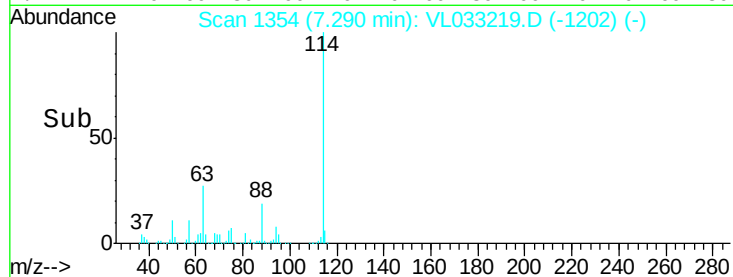
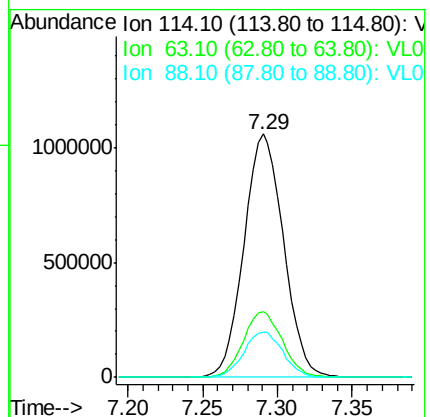
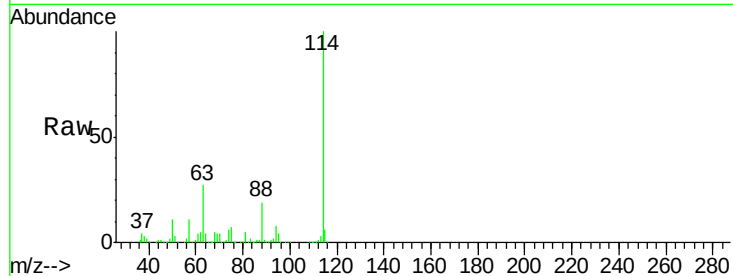




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.01 min
 Lab File: VL033219.D
 Acq: 15 Feb 2019 4:50

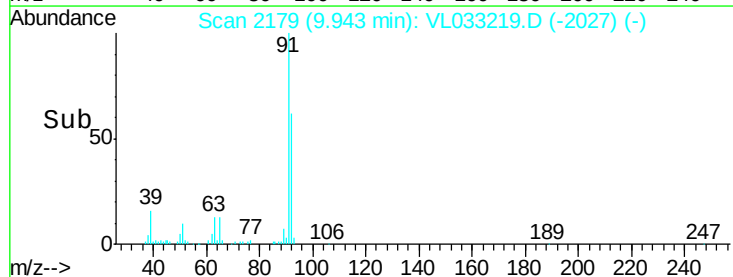
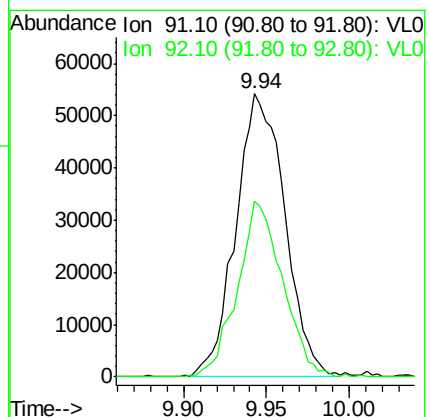
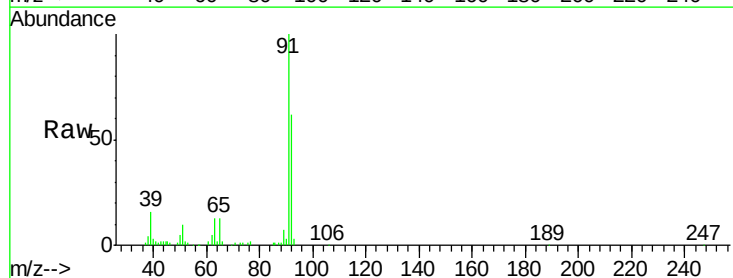
Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENT

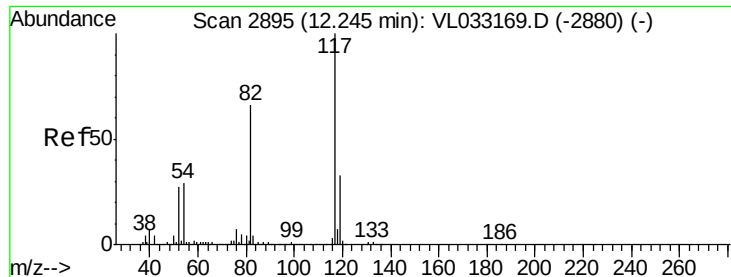
Tot Ion:114 Resp: 1950659
 Ion Ratio Lower Upper
 114 100
 63 26.8 20.8 31.2
 88 18.7 14.6 22.0



#53
 Toluene
 Concen: 0.471 ppbv
 RT: 9.94 min Scan# 2179
 Delta R.T. -0.01 min
 Lab File: VL033219.D
 Acq: 15 Feb 2019 4:50

Tgt Ion: 91 Resp: 110364
 Ion Ratio Lower Upper
 91 100
 92 57.7 48.0 72.0

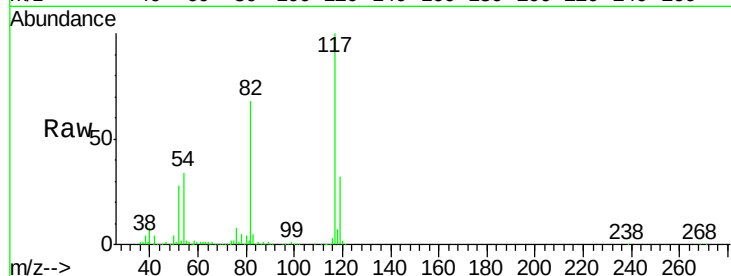




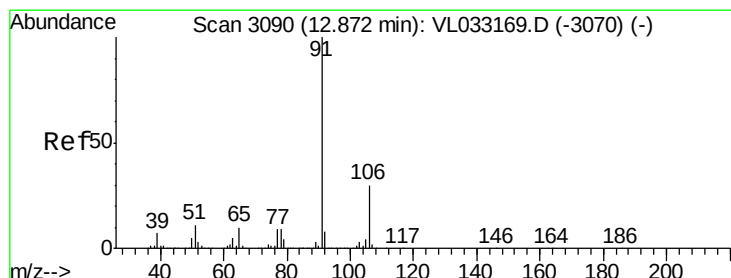
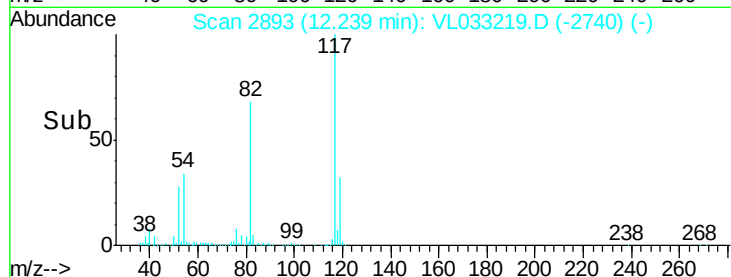
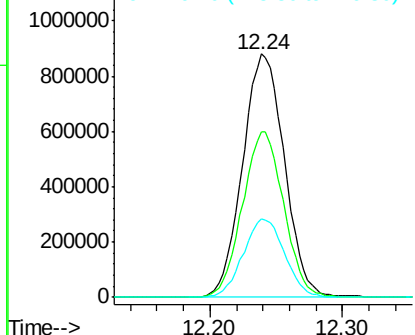
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL033219.D
Acq: 15 Feb 2019 4:50

Instrument :
MSVOA_L
ClientSampleId :
EFFLUENT

Tot Ion:117 Resp: 1930488
Ion Ratio Lower Upper
117 100
82 67.6 49.5 74.3
119 32.2 24.4 36.6

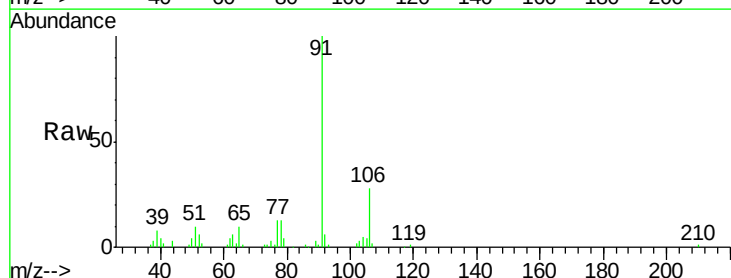


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

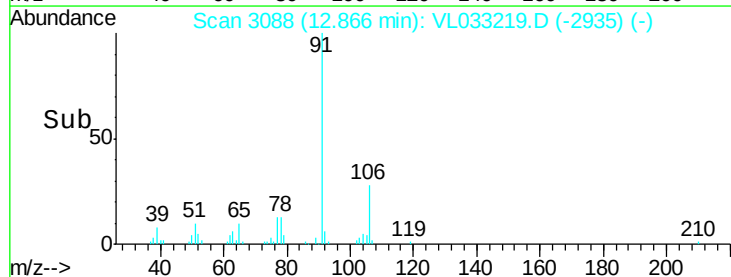
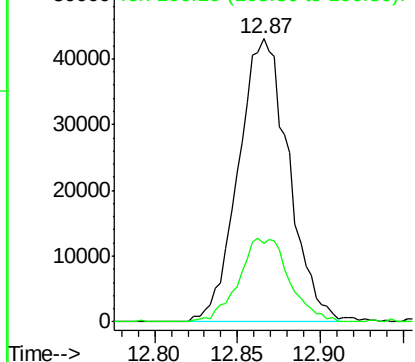


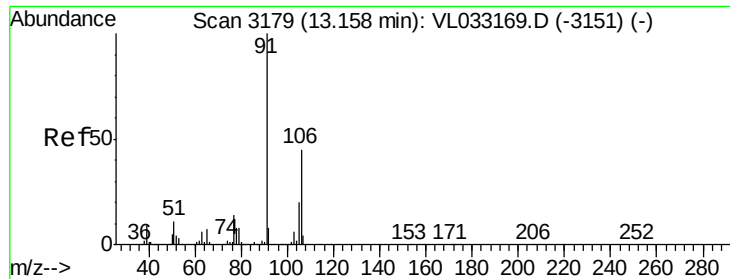
#58
Ethyl Benzene
Concen: 0.291 ppbv
RT: 12.87 min Scan# 3088
Delta R.T. -0.01 min
Lab File: VL033219.D
Acq: 15 Feb 2019 4:50

Tgt Ion: 91 Resp: 90978
Ion Ratio Lower Upper
91 100
106 27.6 23.8 35.8



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 1.651 ppbv

RT: 13.12 min Scan# 3167

Delta R.T. -0.04 min

Lab File: VL033219.D

Acq: 15 Feb 2019 4:50

Instrument :

MSVOA_L

ClientSampleId :

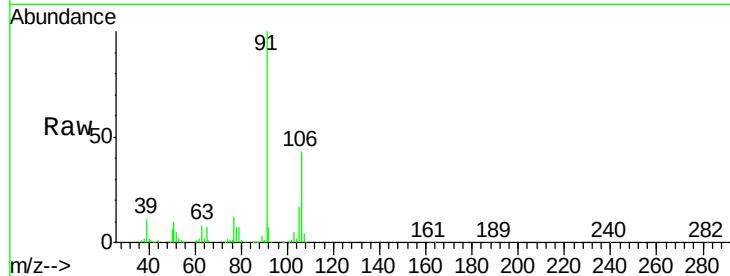
EFFLUENT

Tot Ion: 91 Resp: 430547

Ion Ratio Lower Upper

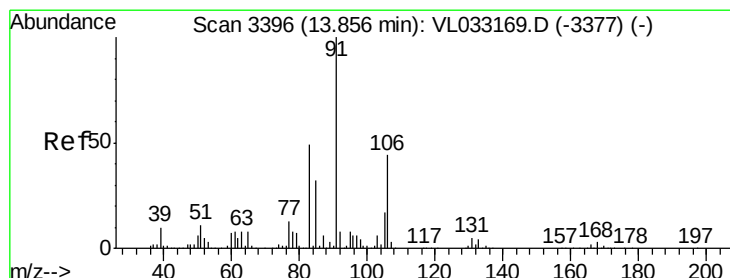
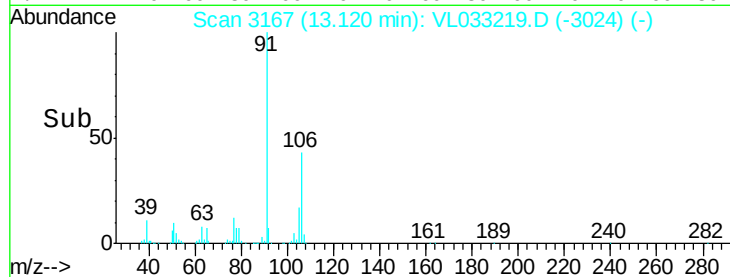
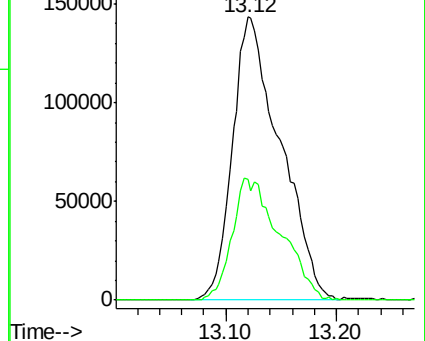
91 100

106 43.2 0.0 0.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.384 ppbv

RT: 13.85 min Scan# 3395

Delta R.T. -0.00 min

Lab File: VL033219.D

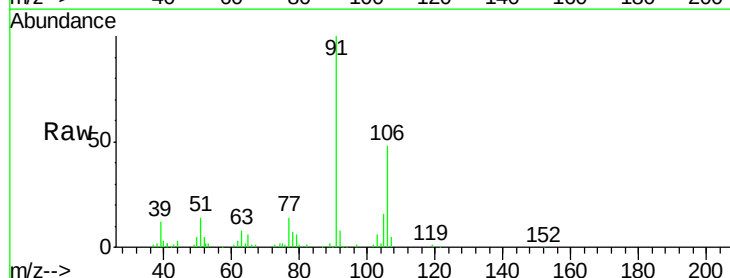
Acq: 15 Feb 2019 4:50

Tgt Ion: 91 Resp: 97300

Ion Ratio Lower Upper

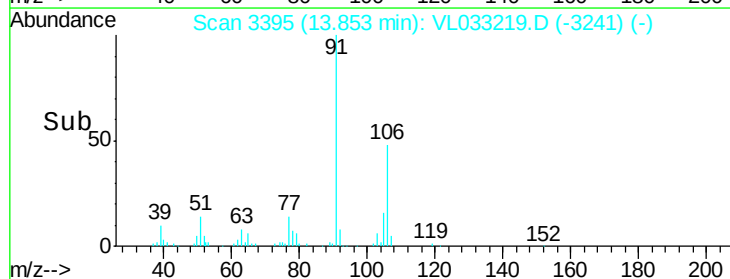
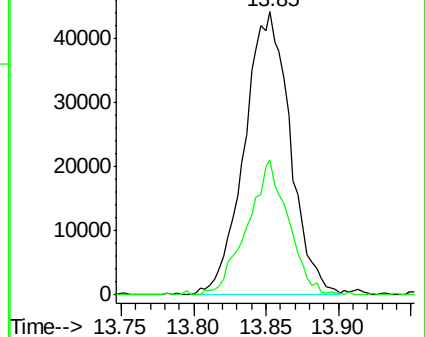
91 100

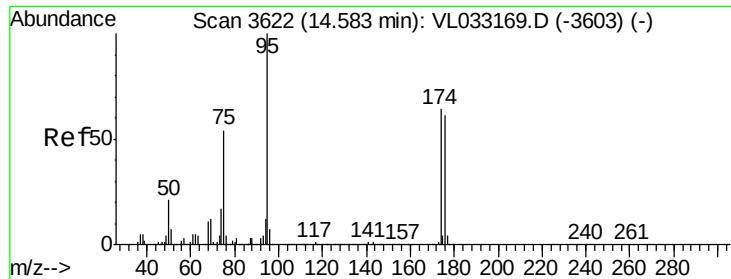
106 43.0 21.8 65.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

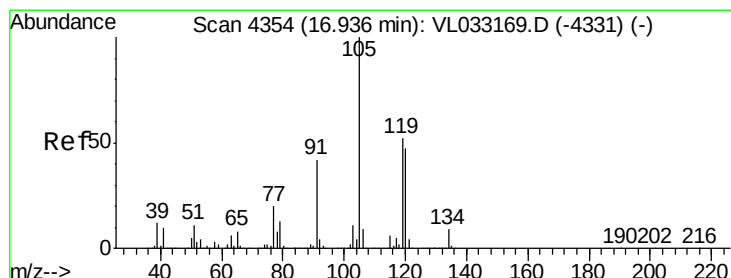
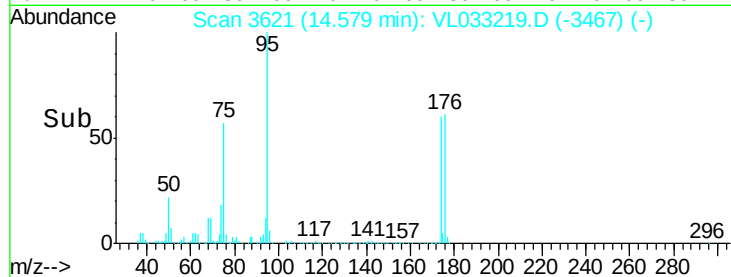
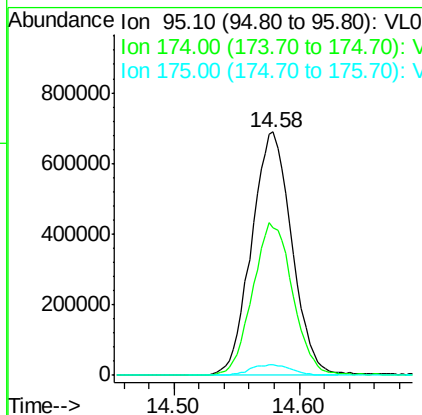
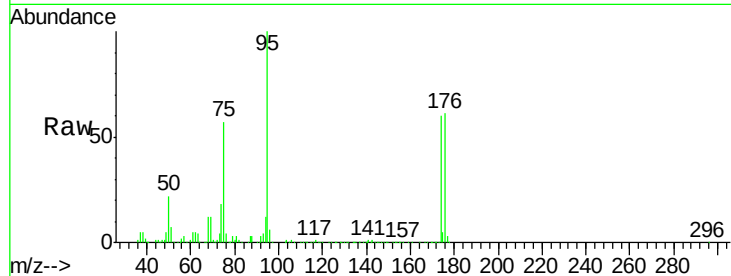




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.316 ppbv
 RT: 14.58 min Scan# 3621
 Delta R.T. -0.00 min
 Lab File: VL033219.D
 Acq: 15 Feb 2019 4:50

Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENT

Tot Ion: 95 Resp: 1533711
 Ion Ratio Lower Upper
 95 100
 174 63.3 51.2 76.8
 175 4.6 3.8 5.6



#74
 1,2,4-Trimethylbenzene
 Concen: 0.150 ppbv m
 RT: 16.93 min Scan# 4351
 Delta R.T. -0.01 min
 Lab File: VL033219.D
 Acq: 15 Feb 2019 4:50

Tgt Ion: 105 Resp: 43508
 Ion Ratio Lower Upper
 105 100
 120 39.5 37.9 56.9
 91 10.7 34.0 51.0#
 77 19.9 15.7 23.5

