

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062419\
 Data File : VL033939.D
 Acq On : 24 Jun 2019 16:37
 Operator : SY/AP
 Sample : K3481-04DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 TZC-SSDS-AREA-B-2DL

Quant Time: Jun 25 03:38:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 07 08:53:27 2019
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.74	49	1000831	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.26	114	2536228	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.21	117	2655183	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.54	95	2127777	9.76	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.60%	

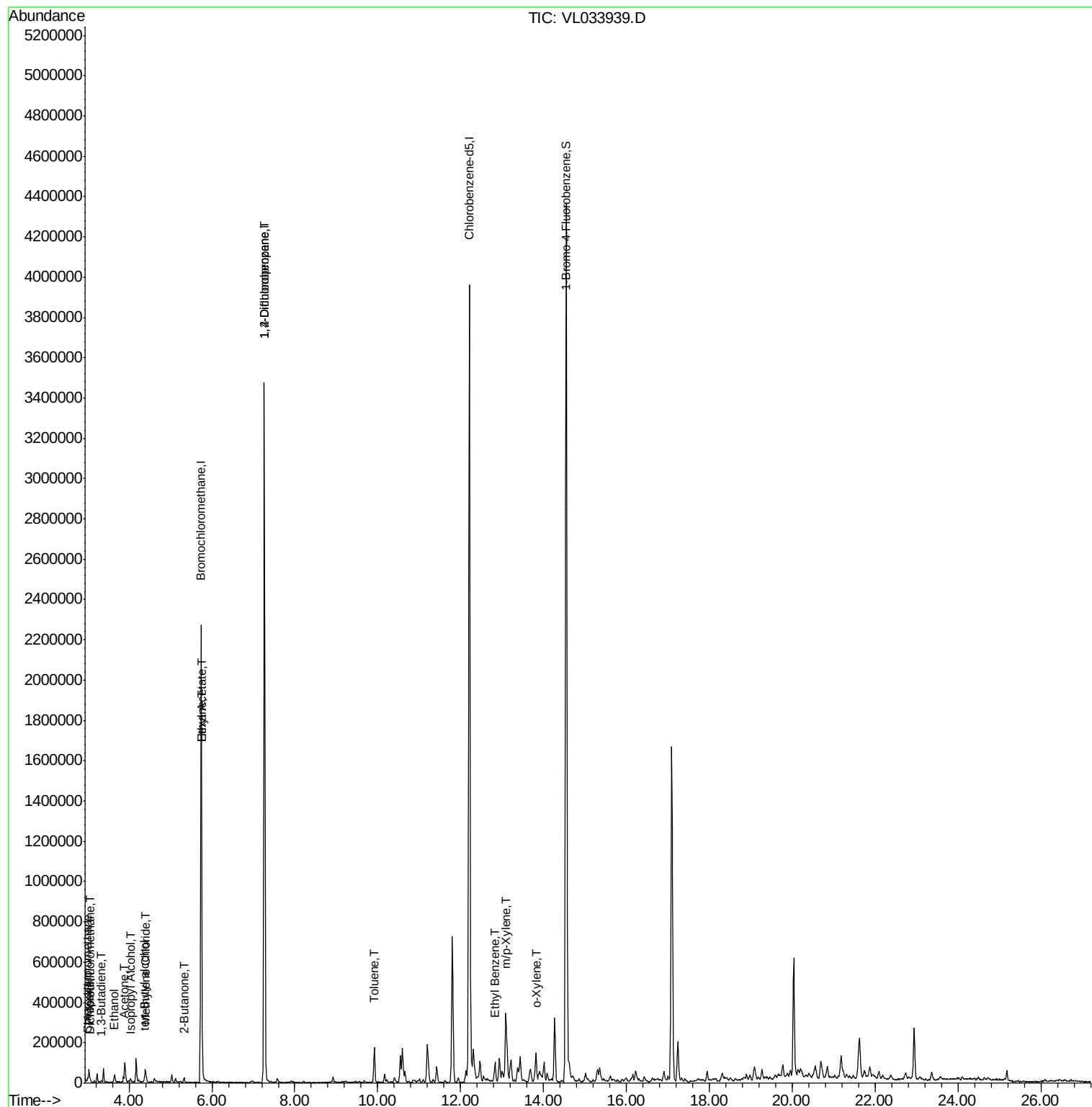
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	9842	0.061	ppbv #	85
3) Chlorodifluoromethane	3.00	51	21618	0.183	ppbv	96
9) Propene	3.04	41	11248	0.255	ppbv #	75
13) Ethanol	3.65	45	36040	2.513	ppbv	99
15) Acetone	3.89	43	97644	0.669	ppbv	93
16) 1,3-Butadiene	3.33	39	2305	0.041	ppbv #	6
17) tert-Butyl alcohol	4.37	59	4372	0.038	ppbv #	64
19) Isopropyl Alcohol	4.03	45	12781	0.153	ppbv #	94
20) Methylene Chloride	4.39	84	19878	0.349	ppbv	96
25) Ethyl Acetate	5.76	43	17780	0.080	ppbv #	79
26) Hexane	5.76	57	26887	0.266	ppbv #	39
34) 2-Butanone	5.33	43	25637	0.179	ppbv	97
39) 1,2-Dichloropropane	7.26	63	603796	8.075	ppbv #	25
53) Toluene	9.92	91	131661	0.614	ppbv	98
58) Ethyl Benzene	12.83	91	73317	0.245	ppbv	95
59) m/p-Xylene	13.09	91	211916	0.778	ppbv #	55
60) o-Xylene	13.82	91	104403	0.371	ppbv	99

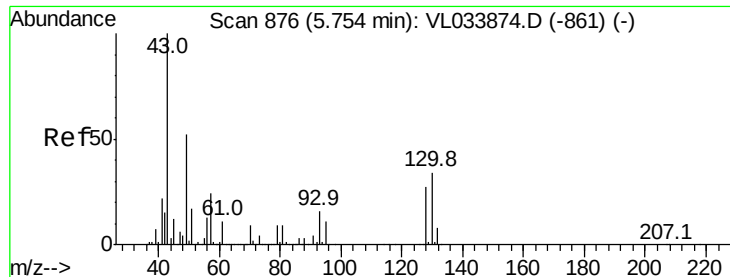
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 07 08:53:27 2019
QLast Update : Fri Jun 07 08:53:27 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.74 min Scan# 871

Delta R.T. -0.02 min

Lab File: VL033939.D

Acq: 24 Jun 2019 16:37

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-B-2DL

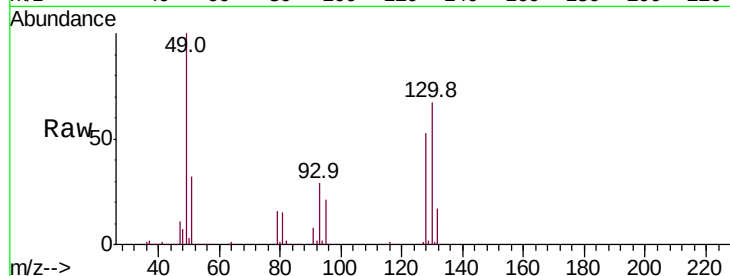
Tot Ion: 49 Resp: 1000831

Ion Ratio Lower Upper

49 100

128 53.1 25.5 76.5

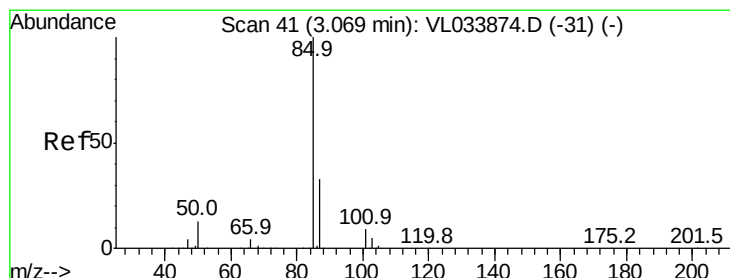
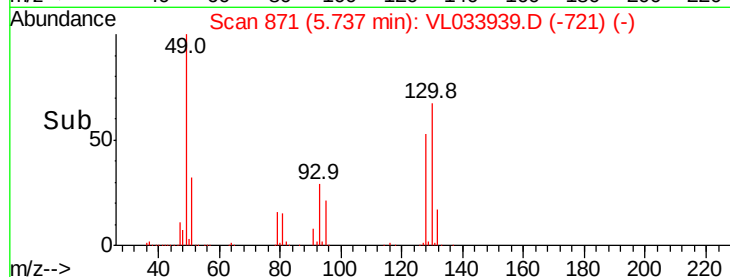
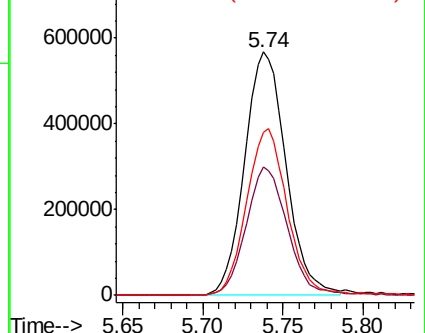
130 68.5 32.5 97.4



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: 0.061 ppbv

RT: 3.07 min Scan# 41

Delta R.T. -0.00 min

Lab File: VL033939.D

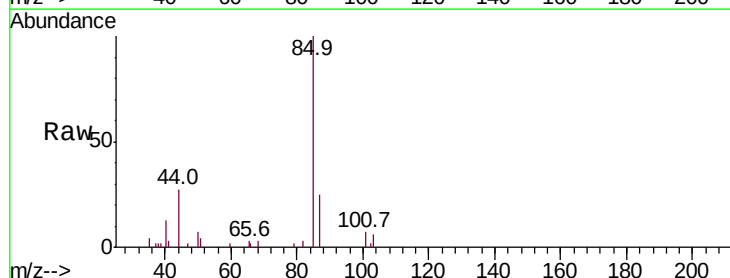
Acq: 24 Jun 2019 16:37

Tgt Ion: 85 Resp: 9842

Ion Ratio Lower Upper

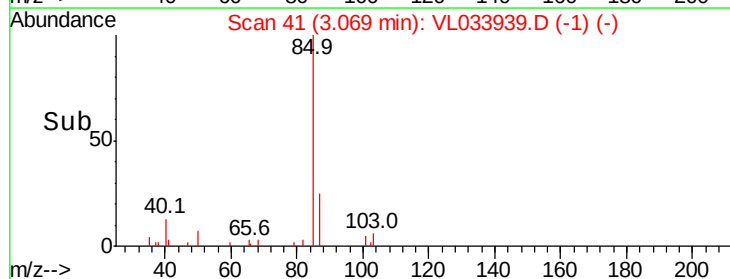
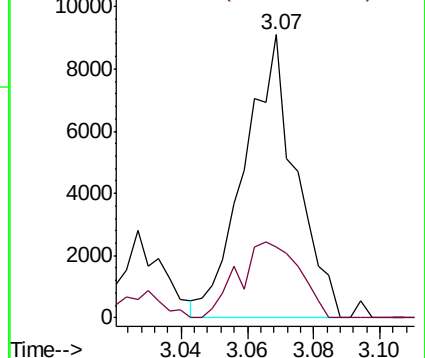
85 100

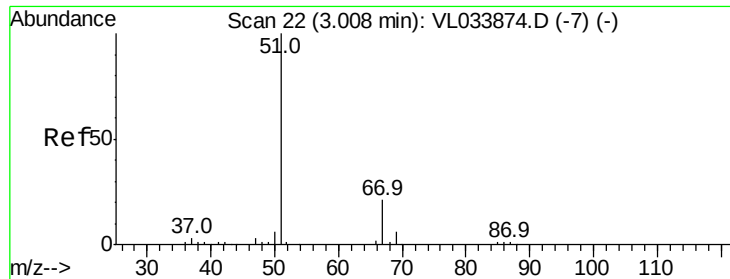
87 24.9 26.6 40.0#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.183 ppbv

RT: 3.00 min Scan# 21

Delta R.T. -0.00 min

Lab File: VL033939.D

Acq: 24 Jun 2019 16:37

Instrument :

MSVOA_L

ClientSampleId :

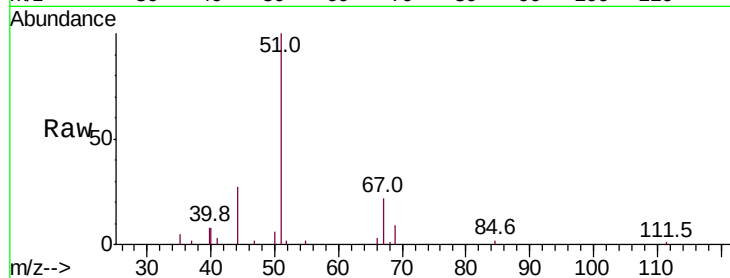
TZC-SSDS-AREA-B-2DL

Tot Ion: 51 Resp: 21618

Ion Ratio Lower Upper

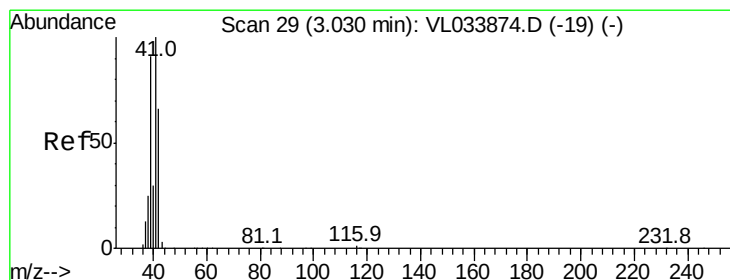
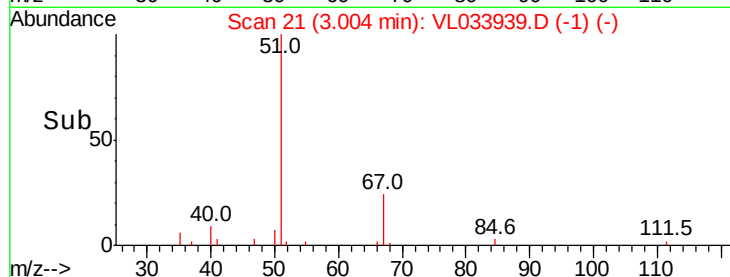
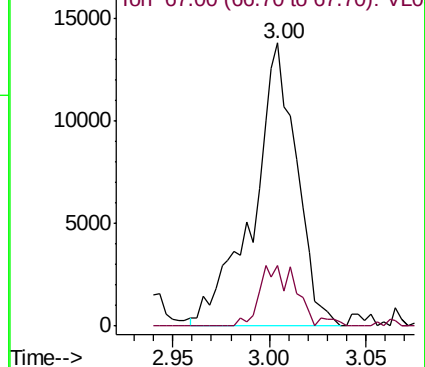
51 100

67 18.5 16.4 24.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.255 ppbv

RT: 3.04 min Scan# 33

Delta R.T. 0.01 min

Lab File: VL033939.D

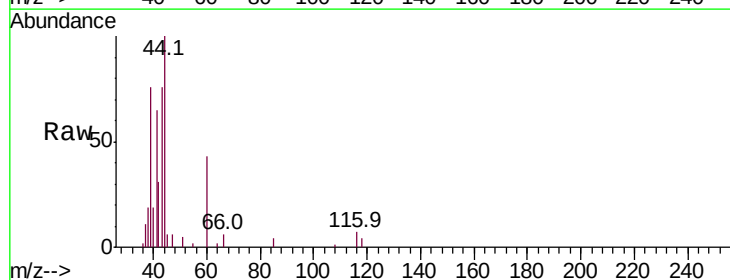
Acq: 24 Jun 2019 16:37

Tgt Ion: 41 Resp: 11248

Ion Ratio Lower Upper

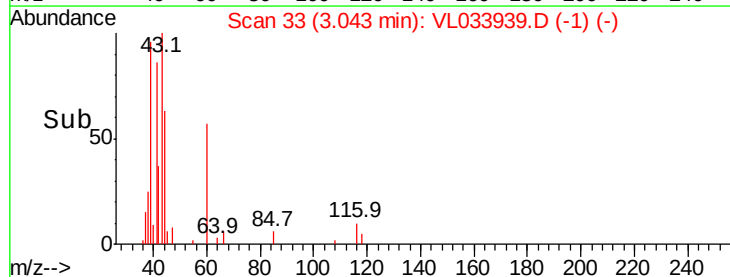
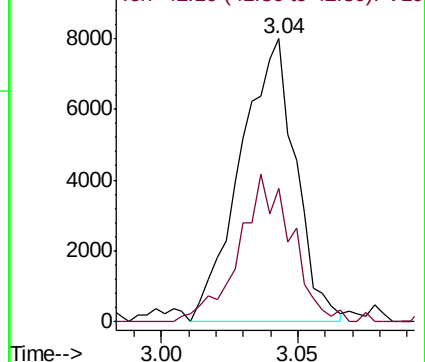
41 100

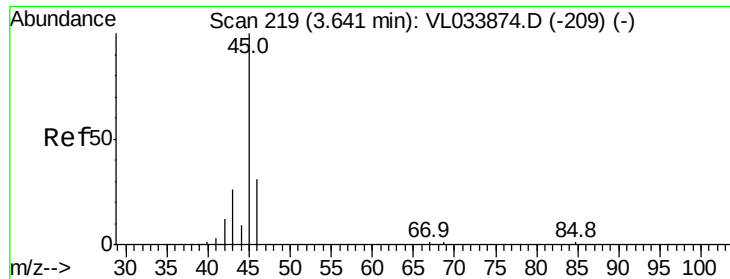
42 49.7 56.3 84.5#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

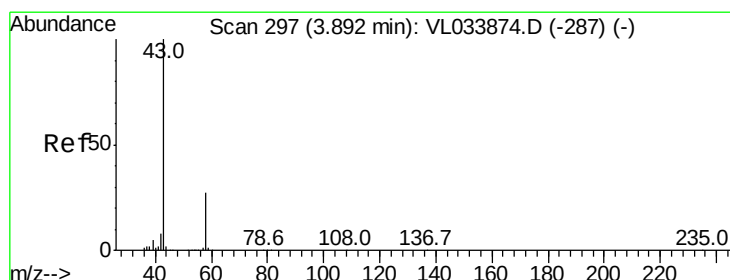
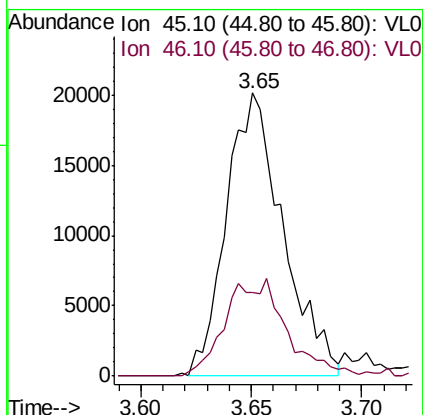
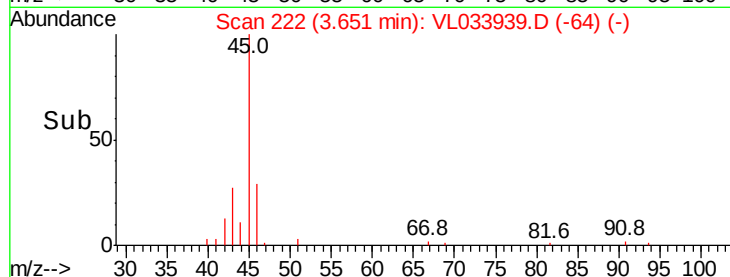
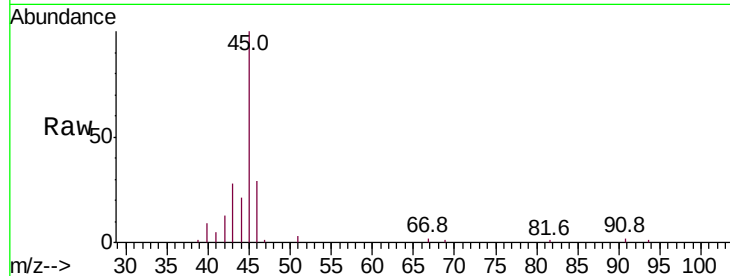




#13
Ethanol
Concen: 2.513 ppbv
RT: 3.65 min Scan# 222
Delta R.T. 0.01 min
Lab File: VL033939.D
Acq: 24 Jun 2019 16:37

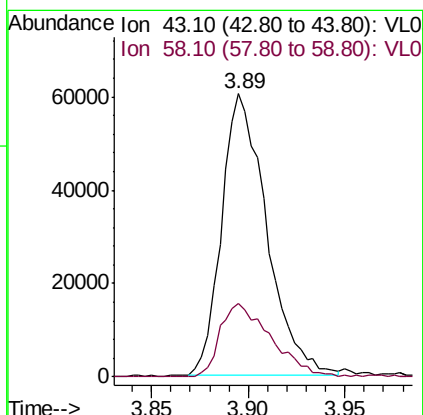
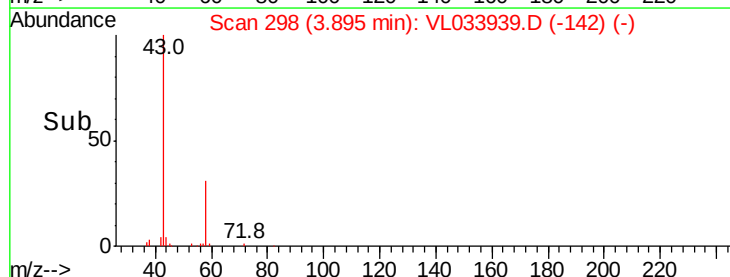
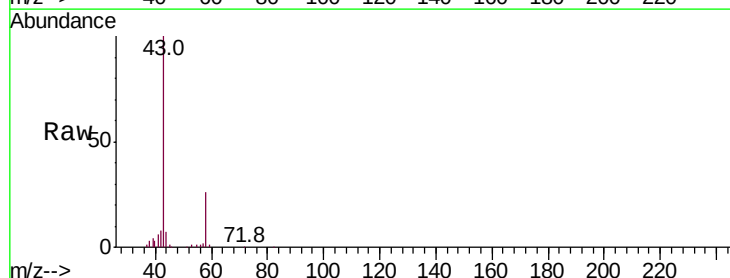
Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-B-2DL

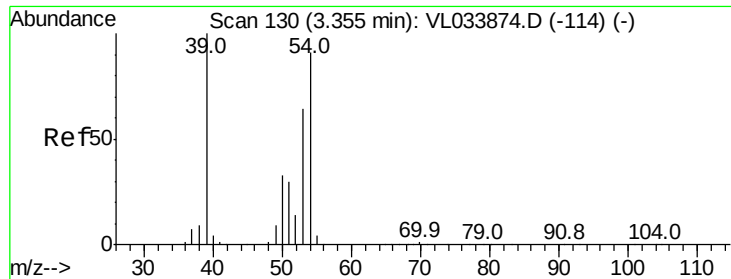
Tot Ion: 45 Resp: 36040
Ion Ratio Lower Upper
45 100
46 37.8 15.3 61.1



#15
Acetone
Concen: 0.669 ppbv
RT: 3.89 min Scan# 298
Delta R.T. 0.00 min
Lab File: VL033939.D
Acq: 24 Jun 2019 16:37

Tgt Ion: 43 Resp: 97644
Ion Ratio Lower Upper
43 100
58 30.0 21.3 31.9

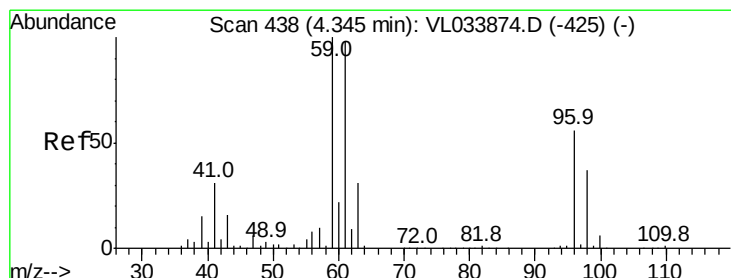
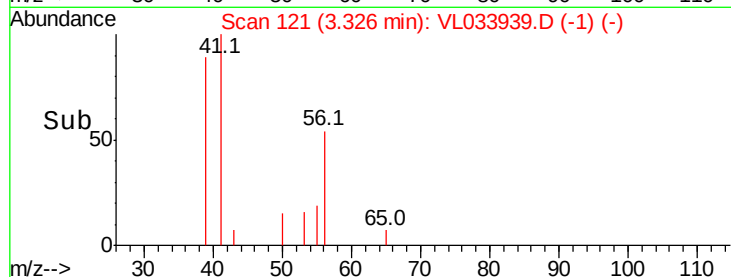
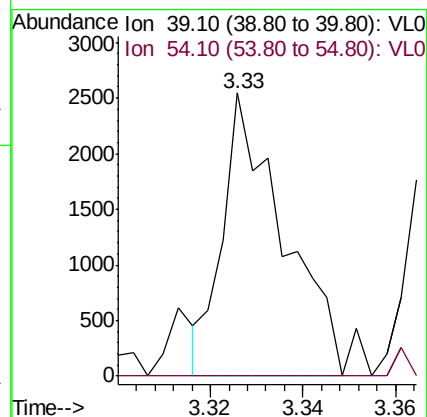
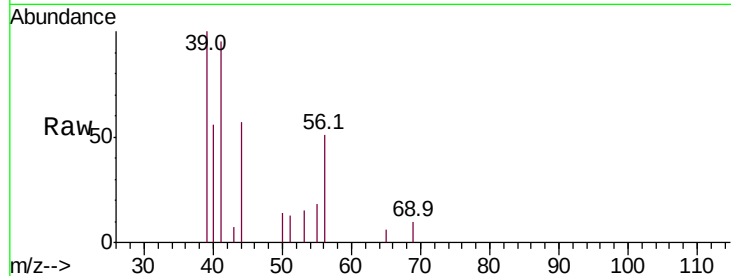




#16
1,3-Butadiene
Concen: 0.041 ppbv
RT: 3.33 min Scan# 121
Delta R.T. -0.03 min
Lab File: VL033939.D
Acq: 24 Jun 2019 16:37

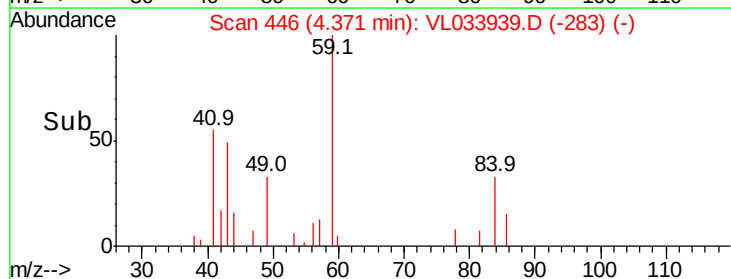
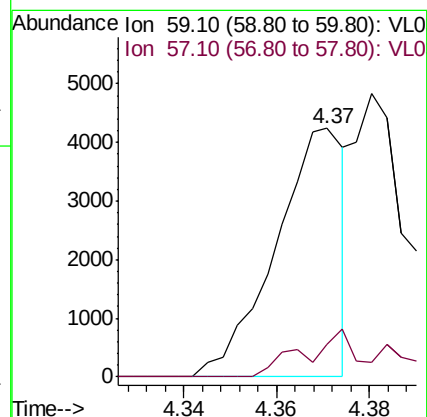
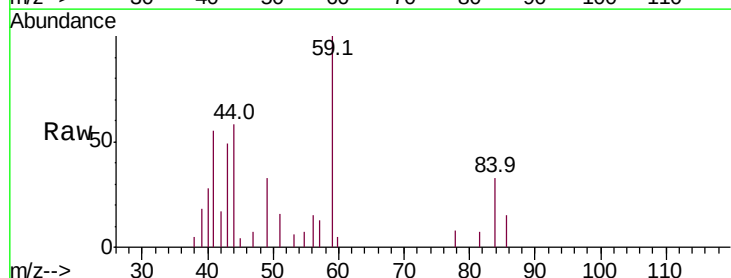
Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-B-2DL

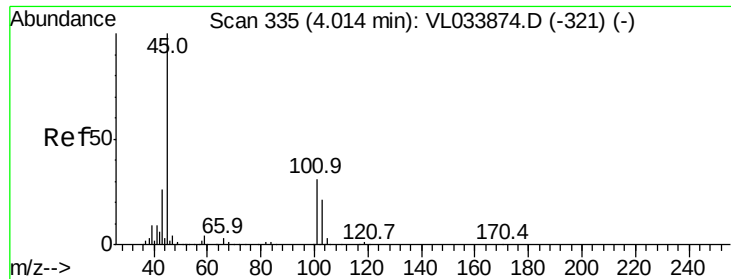
Tot Ion: 39 Resp: 2305
Ion Ratio Lower Upper
39 100
54 0.0 68.6 103.0#



#17
tert-Butyl alcohol
Concen: 0.038 ppbv
RT: 4.37 min Scan# 446
Delta R.T. 0.03 min
Lab File: VL033939.D
Acq: 24 Jun 2019 16:37

Tgt Ion: 59 Resp: 4372
Ion Ratio Lower Upper
59 100
57 24.0 8.4 12.6#





#19

Isopropyl Alcohol

Concen: 0.153 ppbv

RT: 4.03 min Scan# 340

Delta R.T. 0.02 min

Lab File: VL033939.D

Acq: 24 Jun 2019 16:37

Instrument :

MSVOA_L

ClientSampleId :

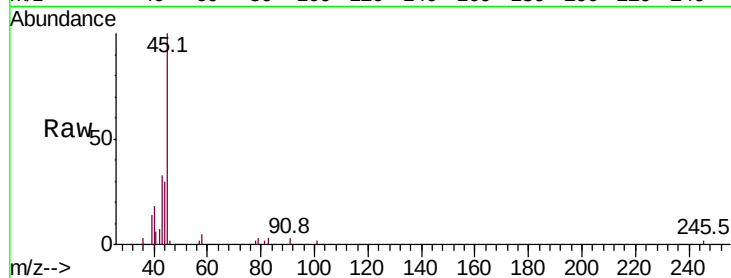
TZC-SSDS-AREA-B-2DL

Tot Ion: 45 Resp: 12781

Ion Ratio Lower Upper

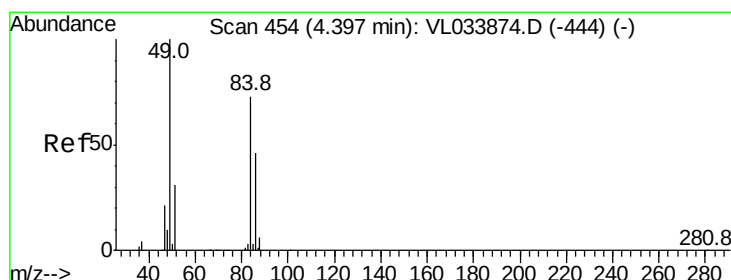
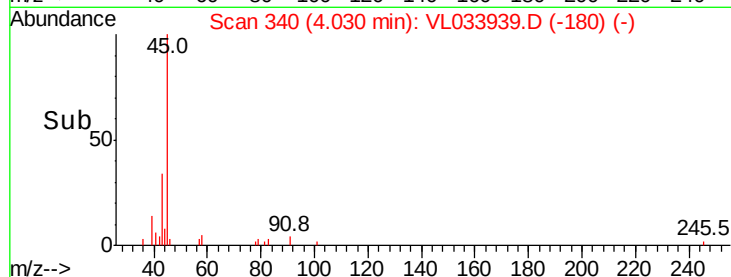
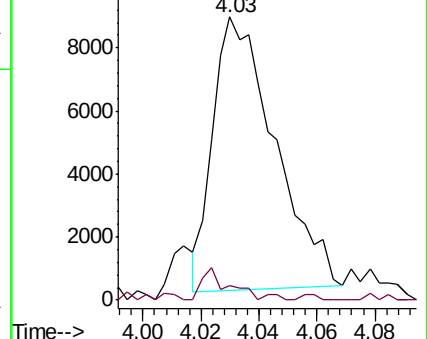
45 100

58 0.0 1.8 2.6#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.349 ppbv

RT: 4.39 min Scan# 453

Delta R.T. -0.00 min

Lab File: VL033939.D

Acq: 24 Jun 2019 16:37

Tgt Ion: 84 Resp: 19878

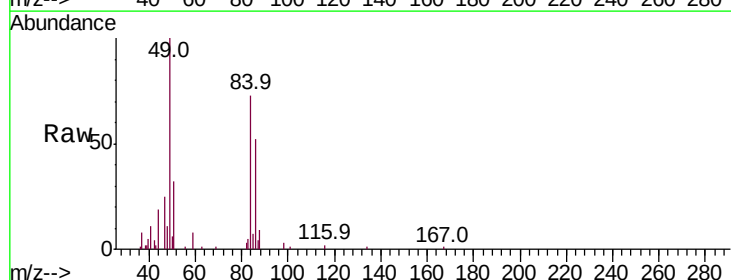
Ion Ratio Lower Upper

84 100

49 134.1 110.0 165.0

51 42.8 34.6 51.8

86 70.3 50.6 75.8

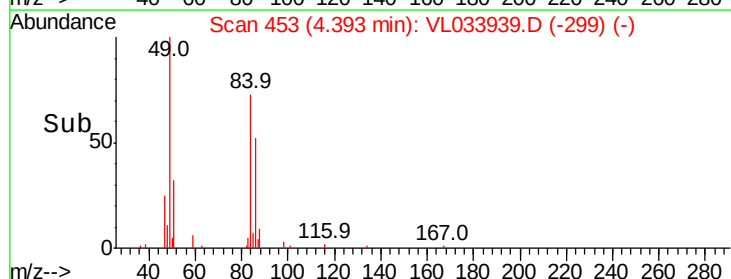
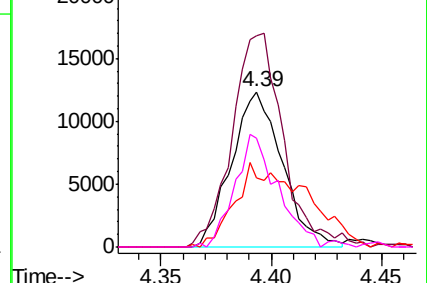


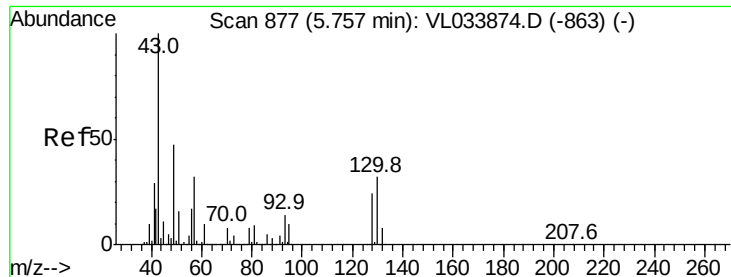
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#25

Ethyl Acetate

Concen: 0.080 ppbv

RT: 5.76 min Scan# 878

Delta R.T. 0.00 min

Lab File: VL033939.D

Acq: 24 Jun 2019 16:37

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Tot Ion: 43 Resp: 17780

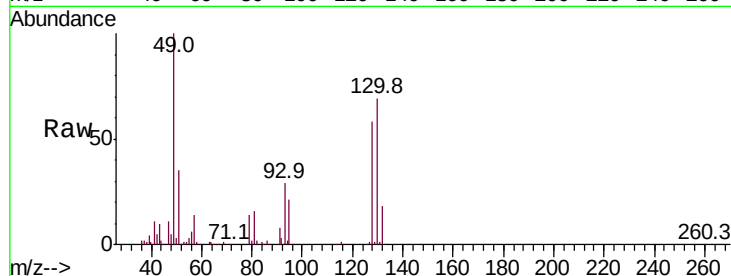
Ion Ratio Lower Upper

43 100

45 1.7 7.9 11.9#

61 0.9 7.8 11.6#

70 1.9 5.8 8.6#

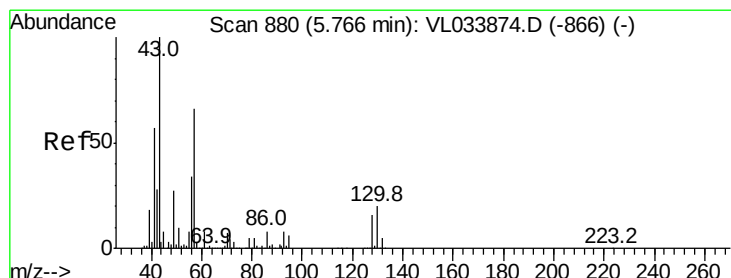
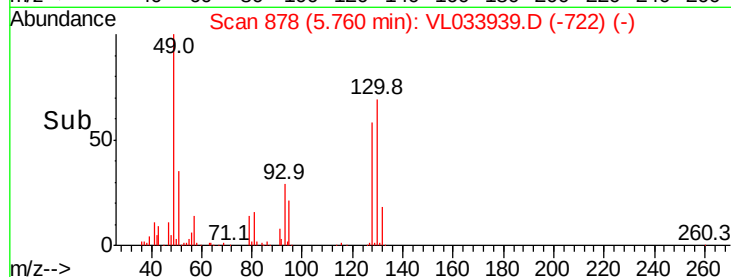
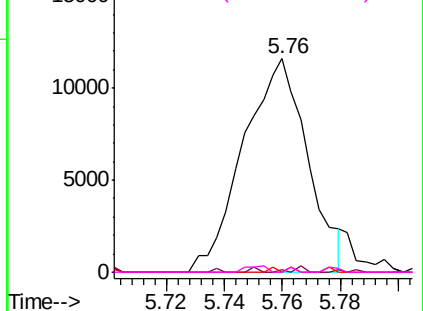


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.266 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.01 min

Lab File: VL033939.D

Acq: 24 Jun 2019 16:37

Tgt Ion: 57 Resp: 26887

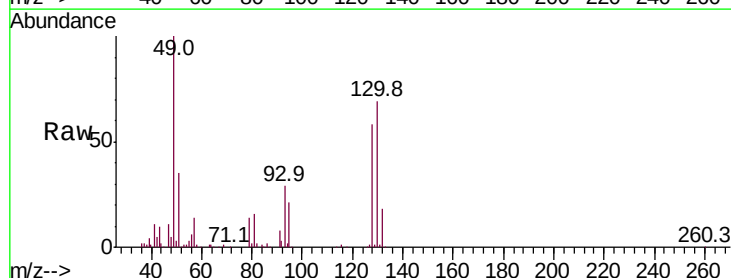
Ion Ratio Lower Upper

57 100

41 91.3 71.4 107.2

43 69.5 183.7 275.5#

56 55.6 42.7 64.1

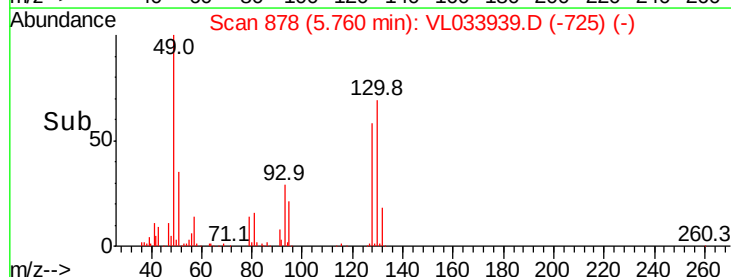
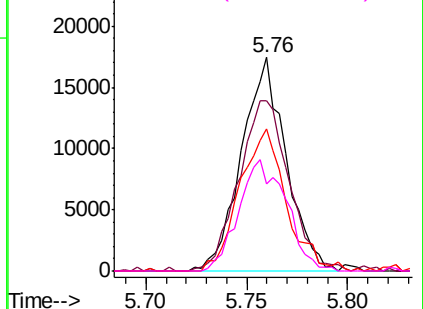


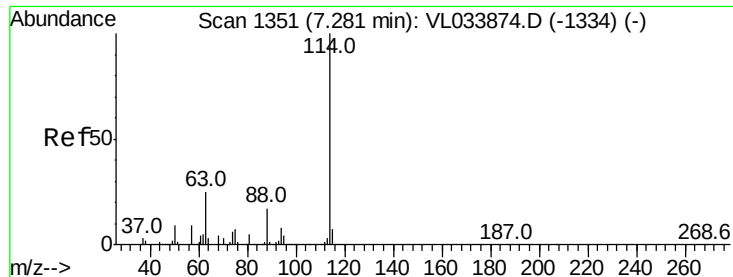
Abundance Ion 57.10 (56.80 to 57.80): VL0

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





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.26 min Scan# 1346

Delta R.T. -0.02 min

Lab File: VL033939.D

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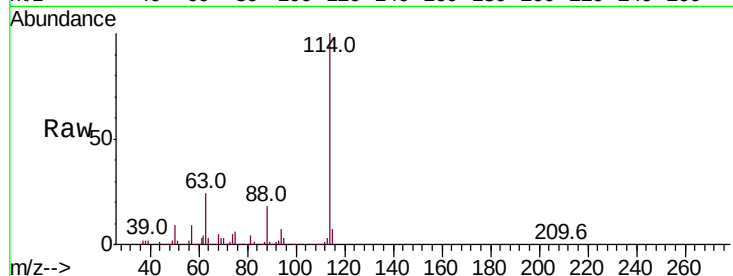
Tot Ion:114 Resp: 2536228

Ion Ratio Lower Upper

114 100

63 23.8 21.1 31.7

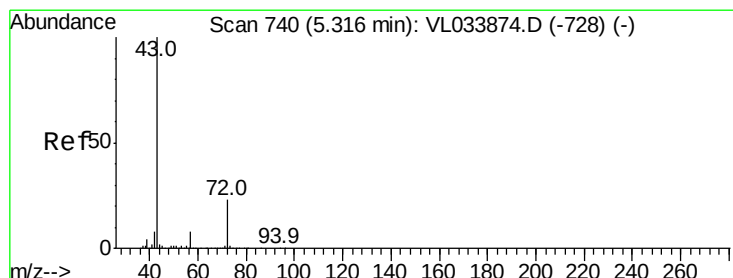
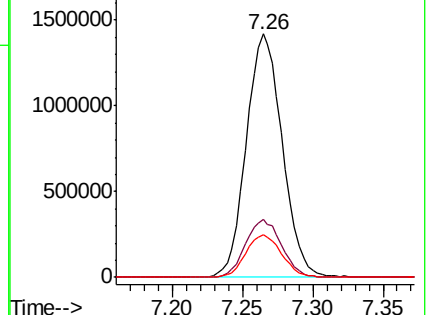
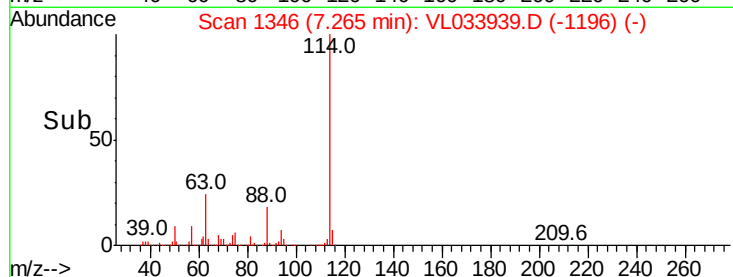
88 17.6 14.2 21.4



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: 0.179 ppbv

RT: 5.33 min Scan# 743

Delta R.T. 0.01 min

Lab File: VL033939.D

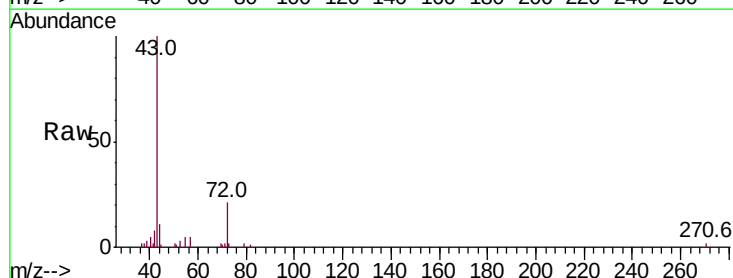
Acq: 24 Jun 2019 16:37

Tgt Ion: 43 Resp: 25637

Ion Ratio Lower Upper

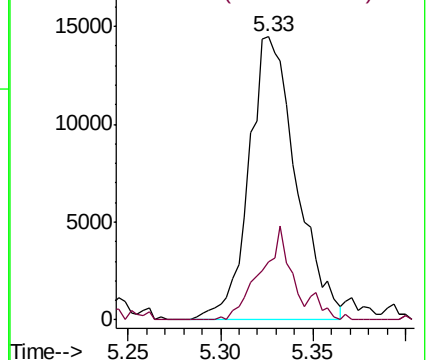
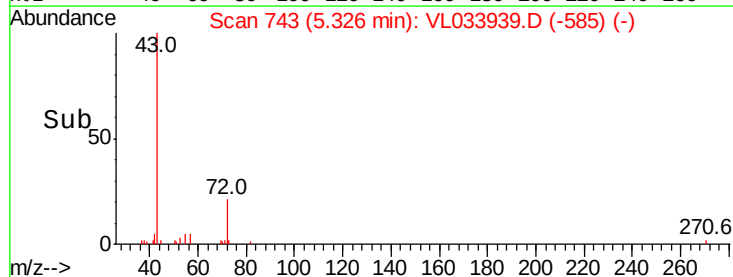
43 100

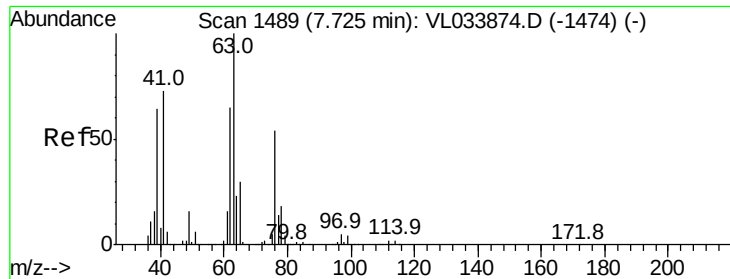
72 23.7 17.9 26.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

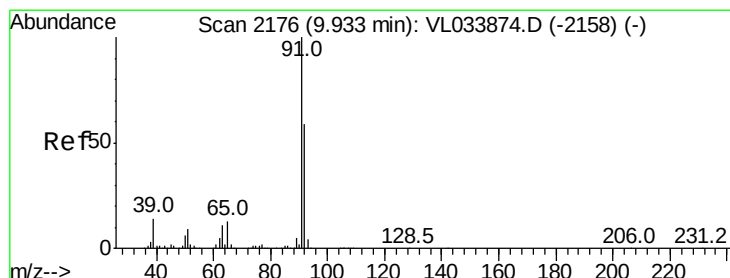
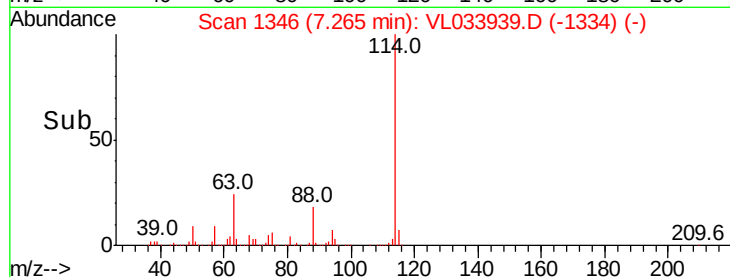
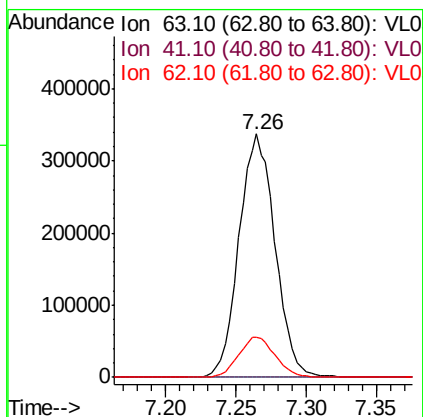
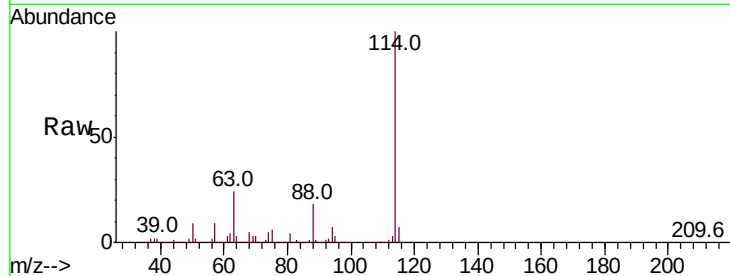




#39
 1,2-Dichloropropane
 Concen: 8.075 ppbv
 RT: 7.26 min Scan# 1346
 Delta R.T. -0.46 min
 Lab File: VL033939.D
 Acq: 24 Jun 2019 16:37

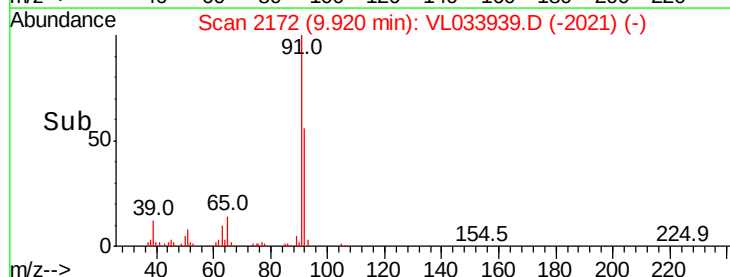
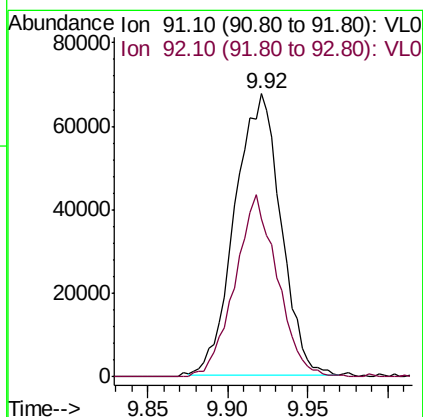
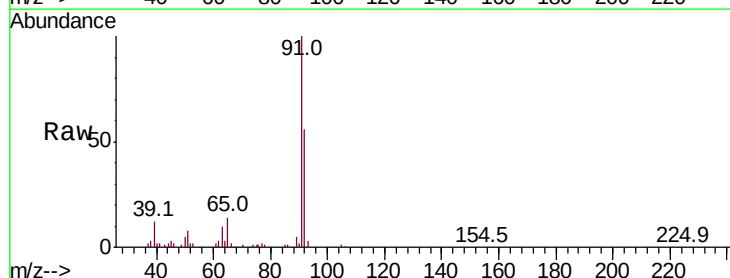
Instrument :
 MSVOA_L
 ClientSampleId :
 TZC-SSDS-AREA-B-2DL

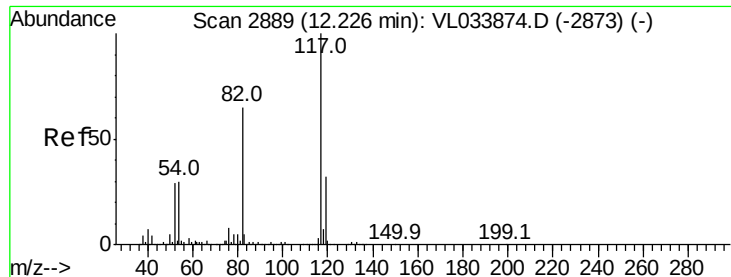
Tot Ion: 63 Resp: 603796
 Ion Ratio Lower Upper
 63 100
 41 0.0 58.7 88.1#
 62 16.3 51.9 77.9#



#53
 Toluene
 Concen: 0.614 ppbv
 RT: 9.92 min Scan# 2172
 Delta R.T. -0.01 min
 Lab File: VL033939.D
 Acq: 24 Jun 2019 16:37

Tgt Ion: 91 Resp: 131661
 Ion Ratio Lower Upper
 91 100
 92 60.2 47.0 70.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.21 min Scan# 2883

Delta R.T. -0.02 min

Lab File: VL033939.D

Acq: 24 Jun 2019 16:37

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-B-2DL

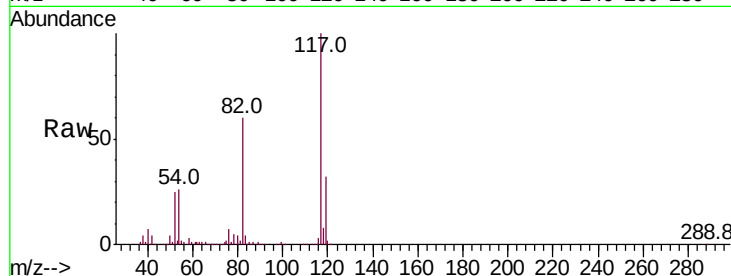
Tot Ion:117 Resp: 2655183

Ion Ratio Lower Upper

117 100

82 62.6 50.2 75.2

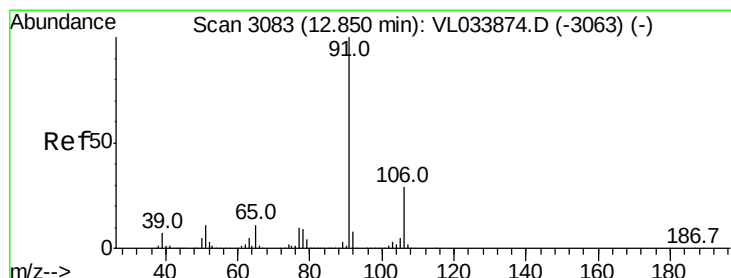
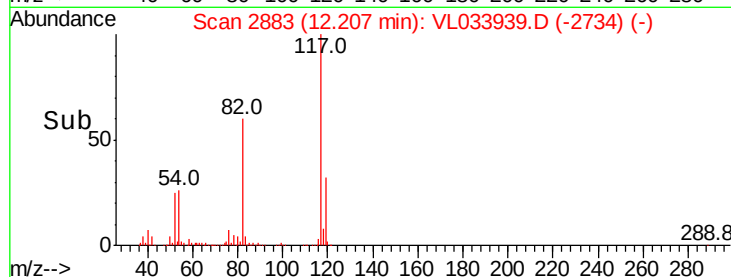
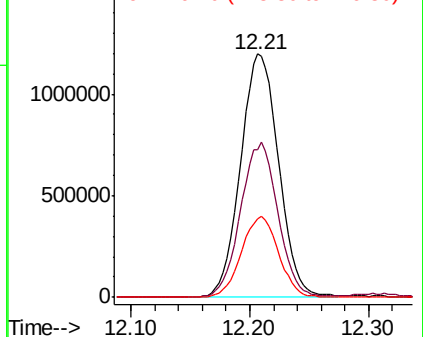
119 32.9 24.8 37.2



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: 0.245 ppbv

RT: 12.83 min Scan# 3077

Delta R.T. -0.02 min

Lab File: VL033939.D

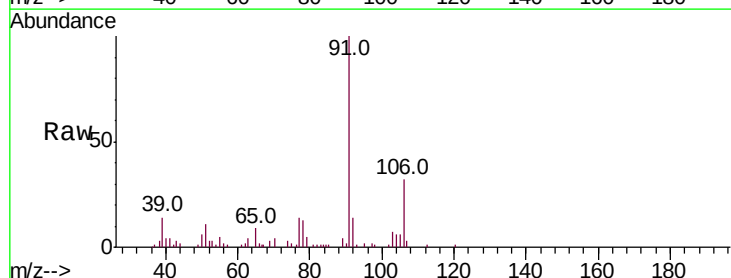
Acq: 24 Jun 2019 16:37

Tgt Ion: 91 Resp: 73317

Ion Ratio Lower Upper

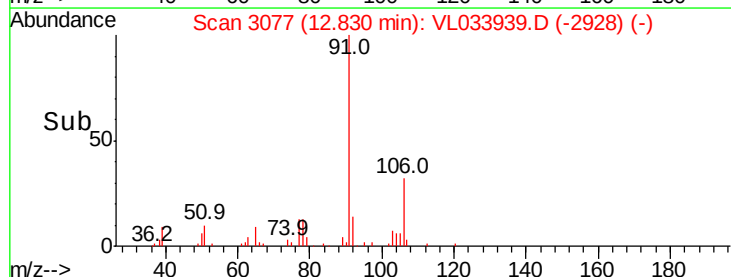
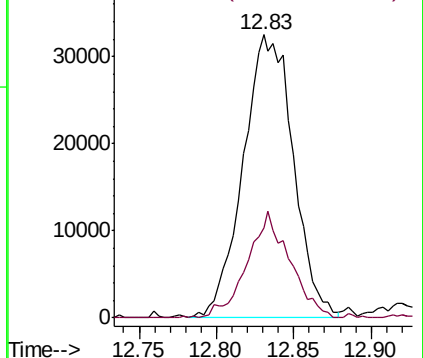
91 100

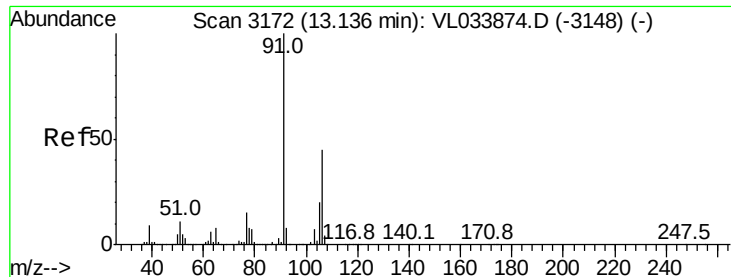
106 31.6 23.0 34.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 0.778 ppbv

RT: 13.09 min Scan# 3159

Delta R.T. -0.04 min

Lab File: VL033939.D

Acq: 24 Jun 2019 16:37

Instrument :

MSVOA_L

ClientSampleId :

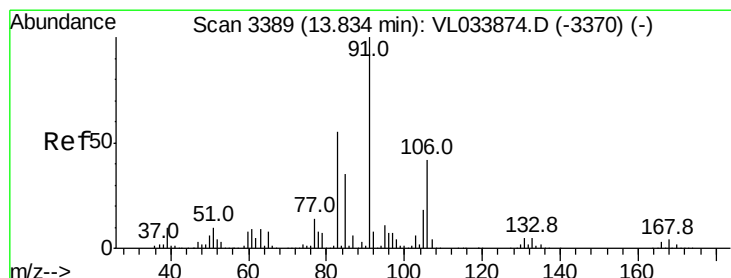
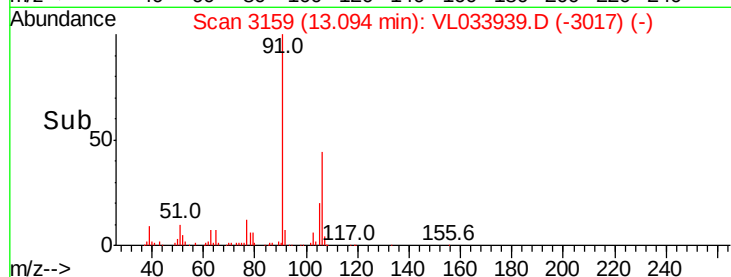
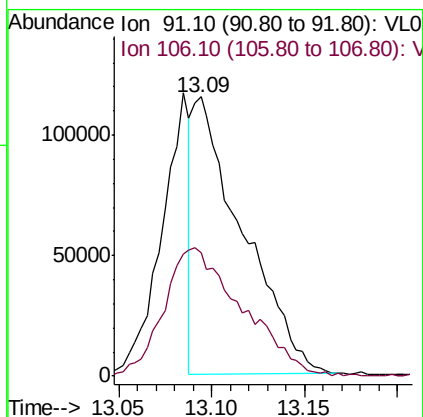
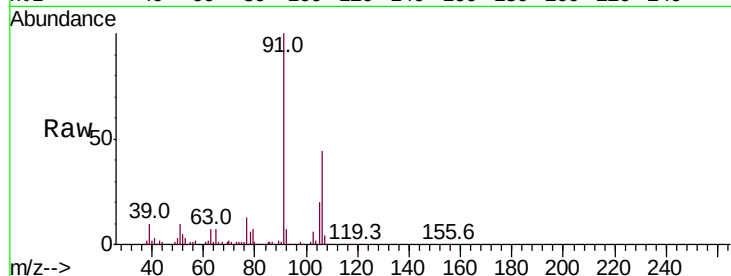
TZC-SSDS-AREA-B-2DL

Tot Ion: 91 Resp: 211916

Ion Ratio Lower Upper

91 100

106 74.1 35.8 53.8#



#60

o-Xylene

Concen: 0.371 ppbv

RT: 13.82 min Scan# 3384

Delta R.T. -0.02 min

Lab File: VL033939.D

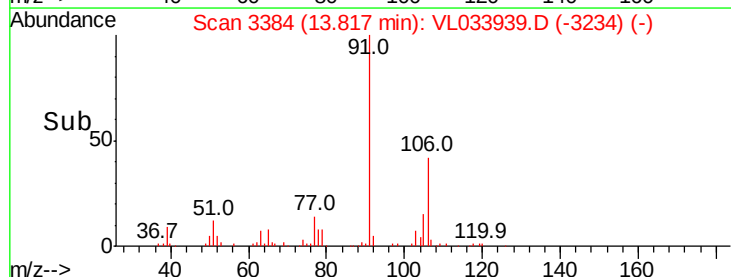
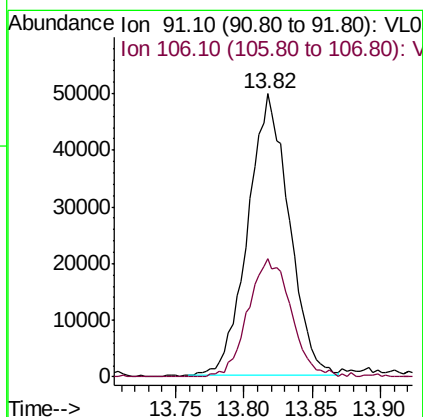
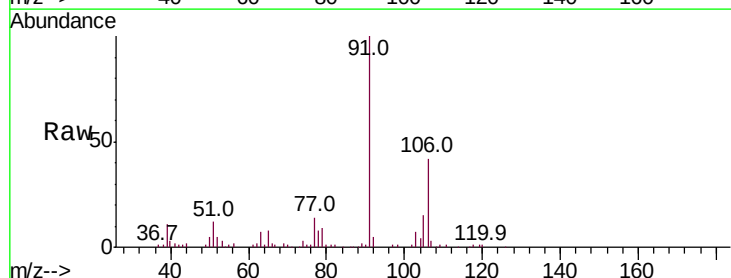
Acq: 24 Jun 2019 16:37

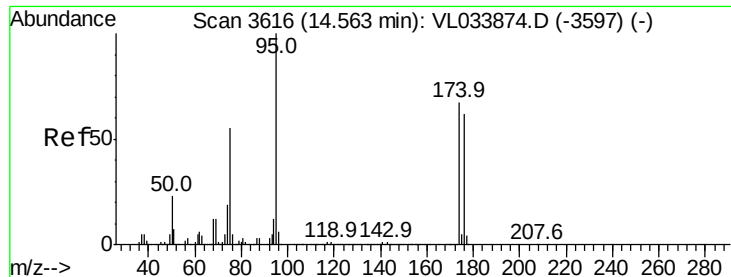
Tgt Ion: 91 Resp: 104403

Ion Ratio Lower Upper

91 100

106 44.2 21.7 65.1





#68

1-Bromo-4-Fluorobenzene

Concen: 9.756 ppbv

RT: 14.54 min Scan# 3610

Delta R.T. -0.02 min

Lab File: VL033939.D

Acq: 24 Jun 2019 16:37

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-B-2DL

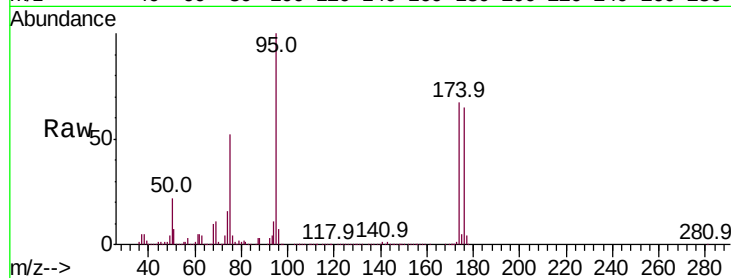
Tot Ion: 95 Resp: 2127777

Ion Ratio Lower Upper

95 100

174 70.4 54.0 81.0

175 5.1 3.8 5.8



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

