

Data File : VL033977.D
Acq On : 26 Jun 2019 21:16
Operator : SY/AP
Sample : K3481-03DL2 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-B-1DL

Quant Time: Jun 27 01:25:01 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL060719AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 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	5.73	49	863640	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.26	114	2118293	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.21	117	2069672	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.54	95	1861154	10.95	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.50%

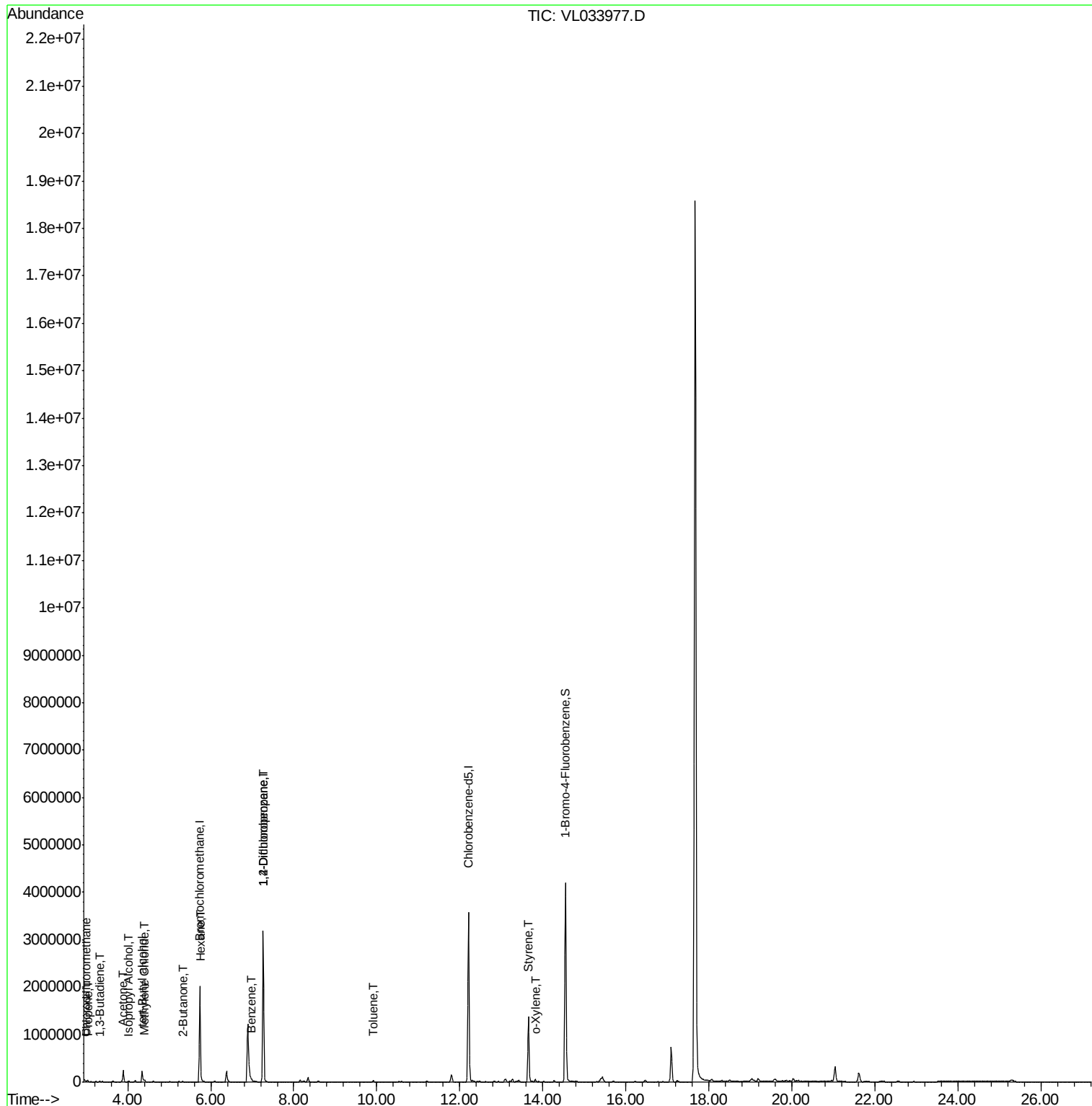
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.00	51	6071	0.060	ppbv #	80
9) Propene	3.03	41	1420	0.037	ppbv #	14
15) Acetone	3.89	43	248305	1.971	ppbv	99
16) 1,3-Butadiene	3.33	39	3721	0.078	ppbv #	6
17) tert-Butyl alcohol	4.35	59	165683	1.683	ppbv	96
19) Isopropyl Alcohol	4.01	45	3948	0.055	ppbv #	94
20) Methylene Chloride	4.39	84	11893	0.242	ppbv	93
26) Hexane	5.75	57	3482	0.040	ppbv #	1
34) 2-Butanone	5.32	43	6143	0.051	ppbv #	53
36) Benzene	6.98	78	10095	0.062	ppbv	96
39) 1,2-Dichloropropane	7.26	63	565278	9.051	ppbv #	25
53) Toluene	9.91	91	11366	0.063	ppbv #	21
60) o-Xylene	13.82	91	41628	0.190	ppbv	100
61) Styrene	13.65	104	713585	5.033	ppbv	97

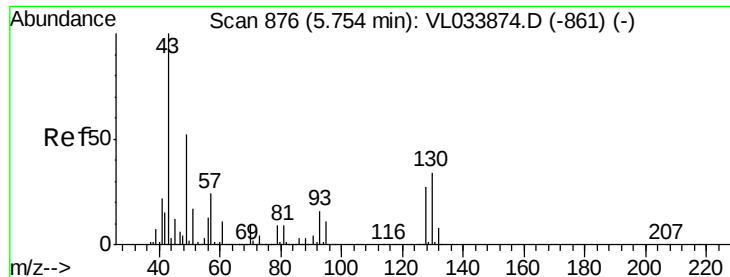
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.73 min Scan# 870

Delta R.T. -0.02 min

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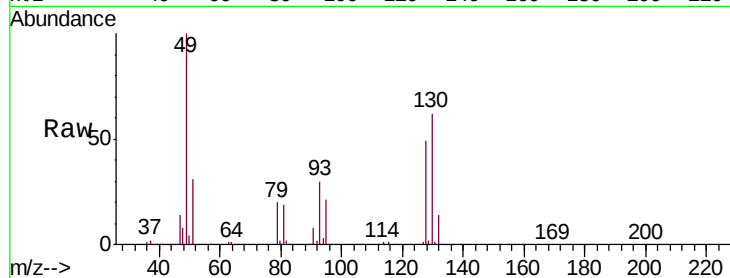
Tgt Ion: 49 Resp: 863640

Ion Ratio Lower Upper

49 100

128 49.9 25.5 76.5

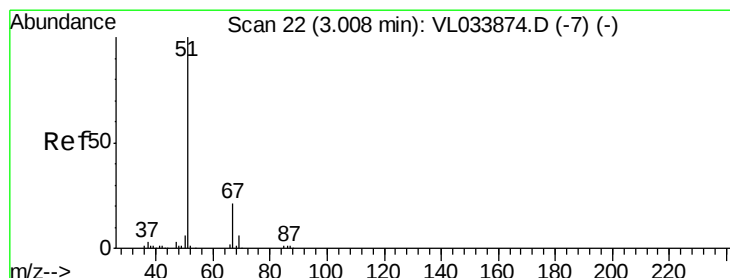
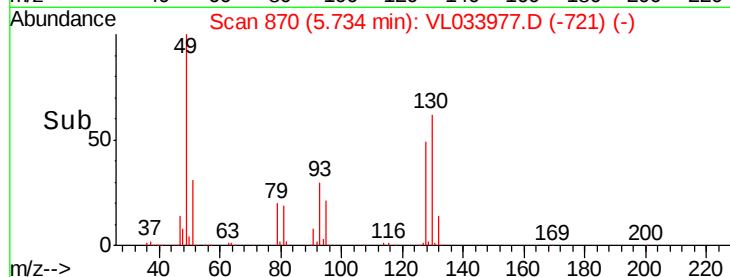
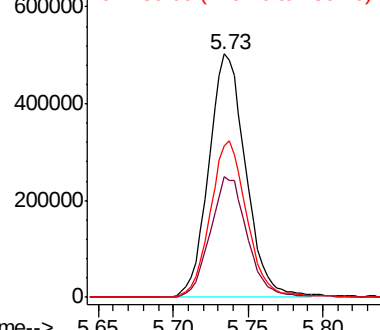
130 64.7 32.5 97.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#3

Chlorodifluoromethane

Concen: 0.060 ppbv

RT: 3.00 min Scan# 19

Delta R.T. -0.01 min

Lab File: VL033977.D

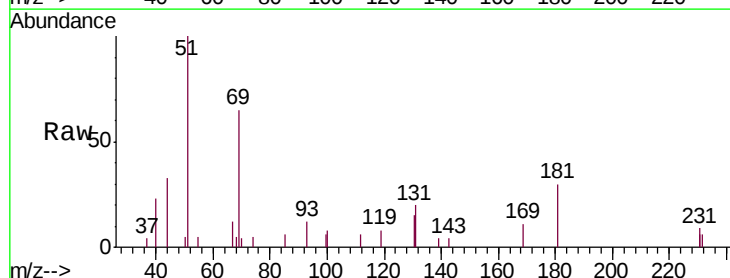
Acq: 26 Jun 2019 21:16

Tgt Ion: 51 Resp: 6071

Ion Ratio Lower Upper

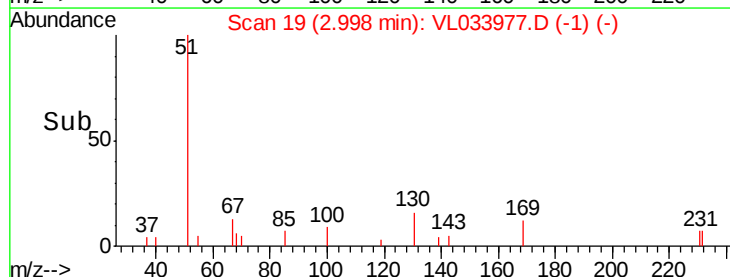
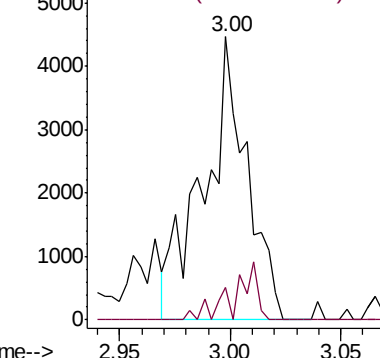
51 100

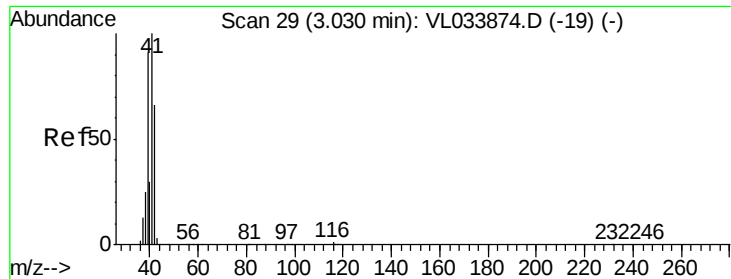
67 11.1 16.4 24.6#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.037 ppbv

RT: 3.03 min Scan# 28

Delta R.T. -0.00 min

Lab File: VL033977.D

Acq: 26 Jun 2019 21:16

Instrument :

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ClientSampleId :

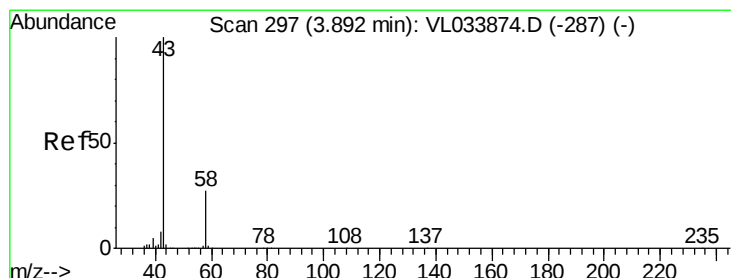
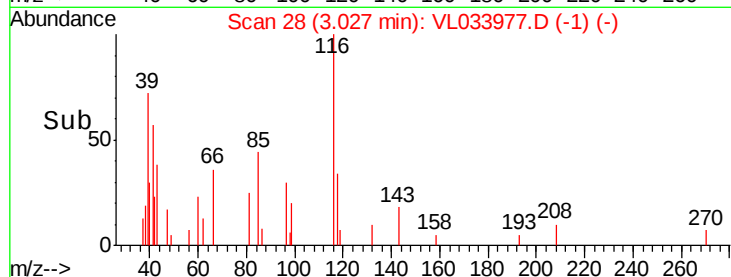
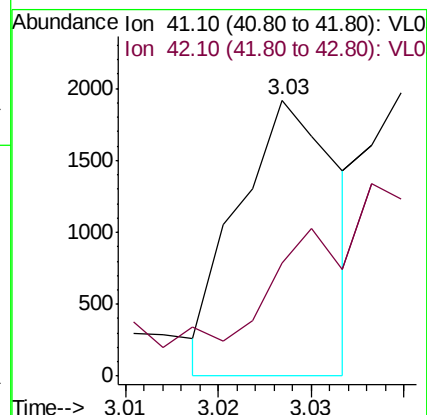
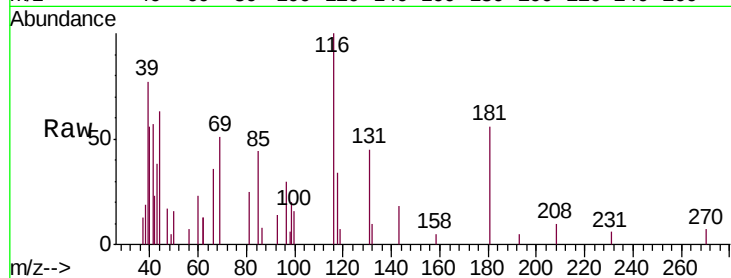
TZC-SSDS-AREA-B-1DL

Tgt Ion: 41 Resp: 1420

Ion Ratio Lower Upper

41 100

42 0.0 56.3 84.5#



#15

Acetone

Concen: 1.971 ppbv

RT: 3.89 min Scan# 296

Delta R.T. -0.00 min

Lab File: VL033977.D

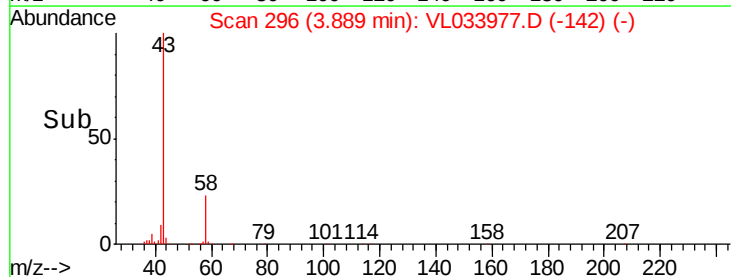
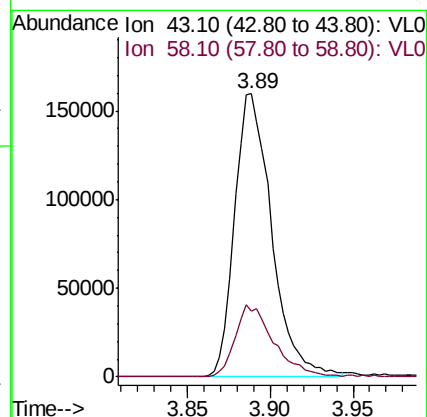
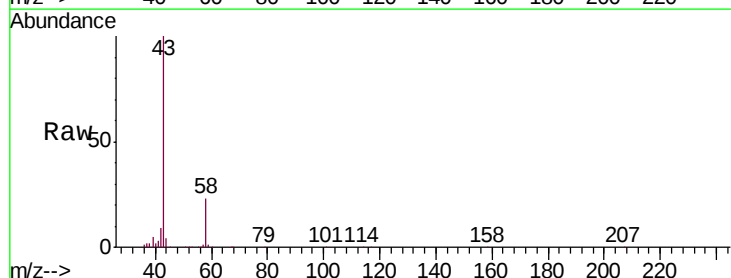
Acq: 26 Jun 2019 21:16

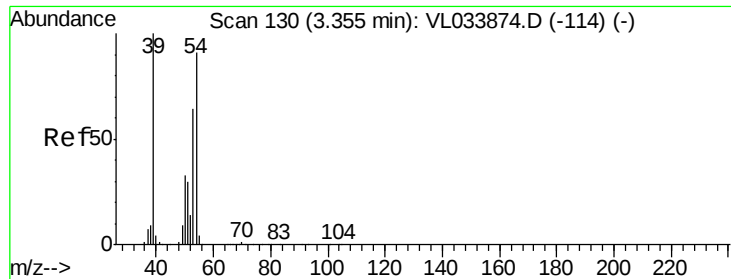
Tgt Ion: 43 Resp: 248305

Ion Ratio Lower Upper

43 100

58 26.9 21.3 31.9

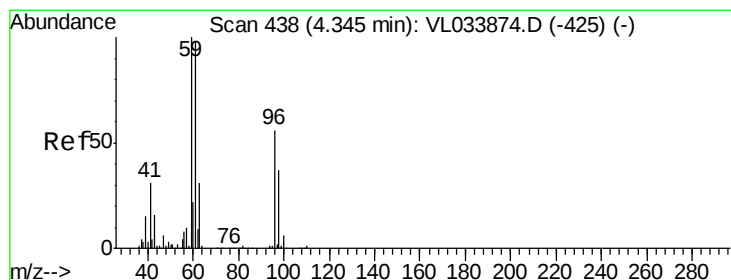
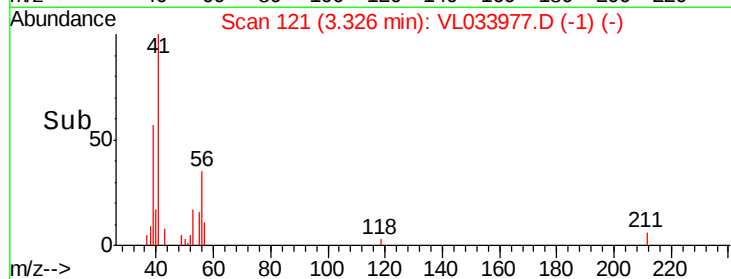
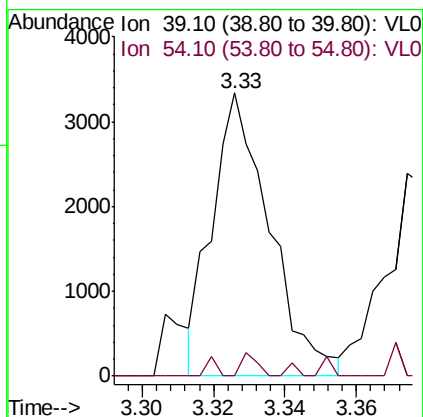
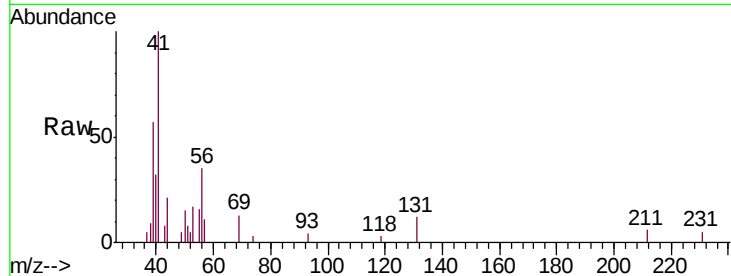




#16
 1,3-Butadiene
 Concen: 0.078 ppbv
 RT: 3.33 min Scan# 121
 Delta R.T. -0.03 min
 Lab File: VL033977.D
 Acq: 26 Jun 2019 21:16

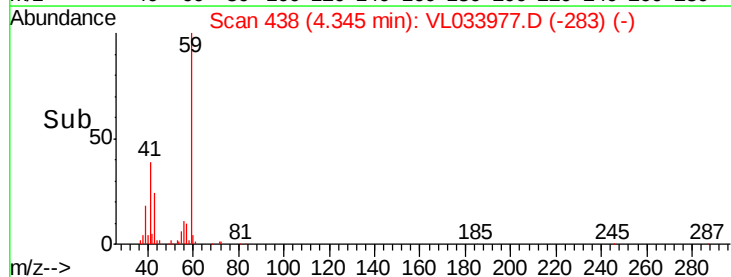
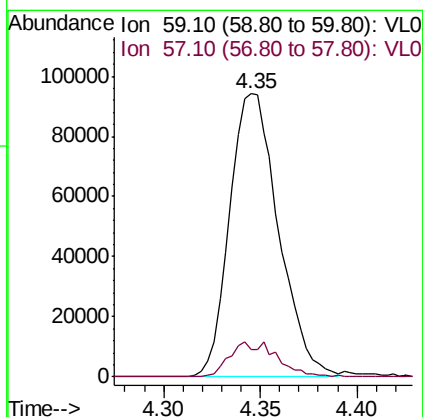
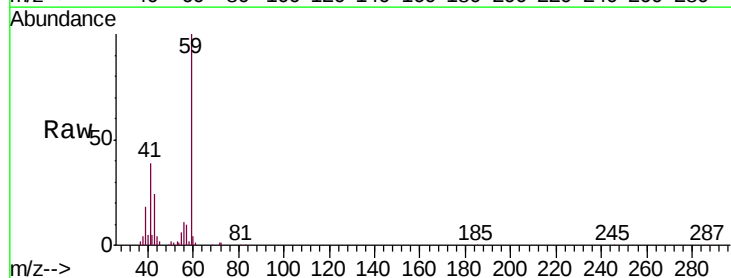
Instrument :
 MSVOA_L
 ClientSampleId :
 TZC-SSDS-AREA-B-1DL

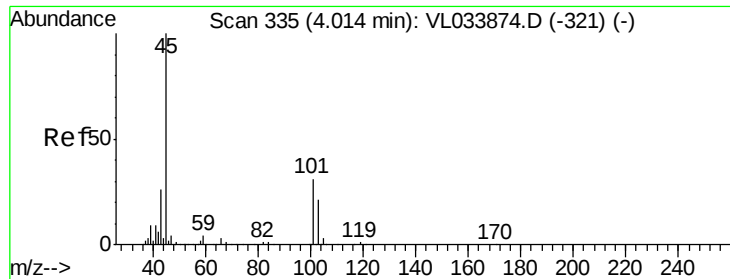
Tgt Ion: 39 Resp: 3721
 Ion Ratio Lower Upper
 39 100
 54 0.0 68.6 103.0#



#17
 tert-Butyl alcohol
 Concen: 1.683 ppbv
 RT: 4.35 min Scan# 438
 Delta R.T. -0.00 min
 Lab File: VL033977.D
 Acq: 26 Jun 2019 21:16

Tgt Ion: 59 Resp: 165683
 Ion Ratio Lower Upper
 59 100
 57 12.1 8.4 12.6

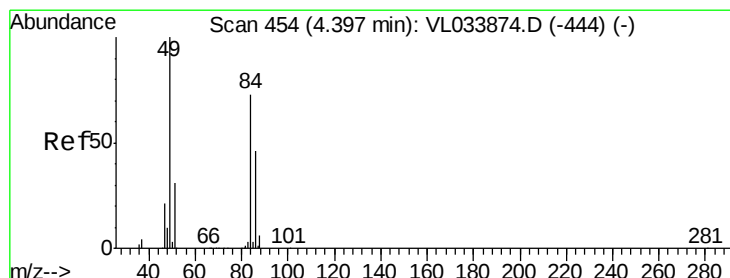
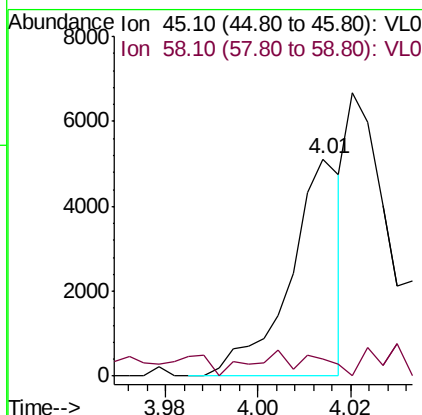
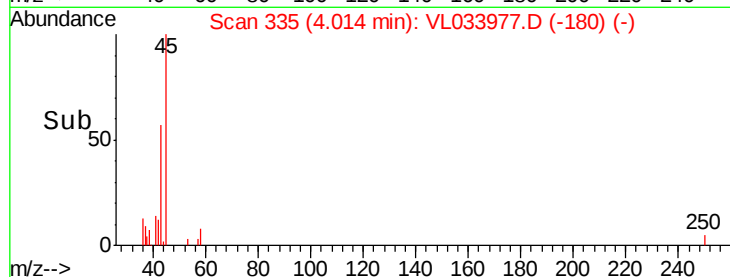
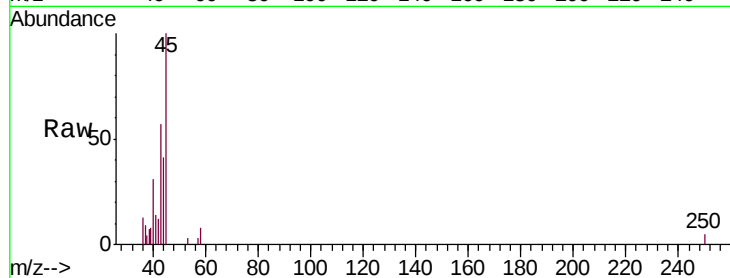




#19
Isopropyl Alcohol
Concen: 0.055 ppbv
RT: 4.01 min Scan# 335
Delta R.T. -0.00 min
Lab File: VL033977.D
Acq: 26 Jun 2019 21:16

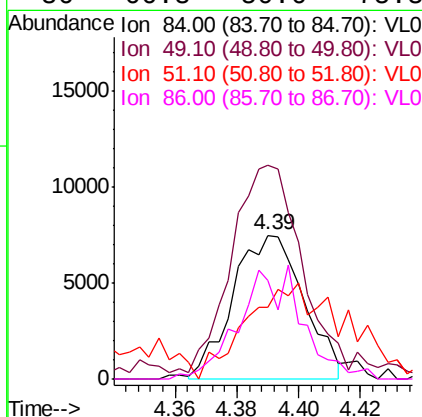
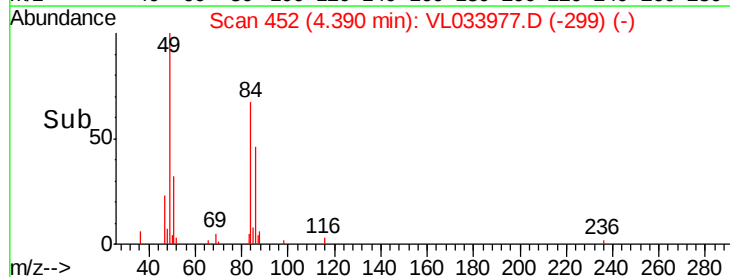
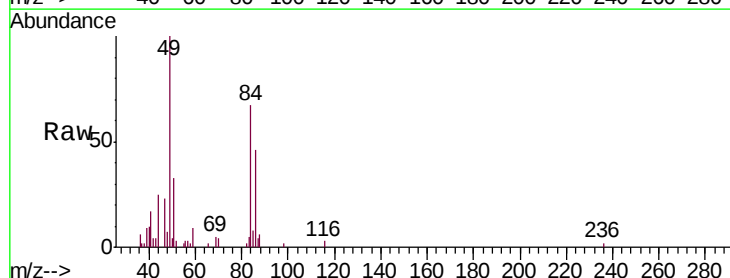
Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-B-1DL

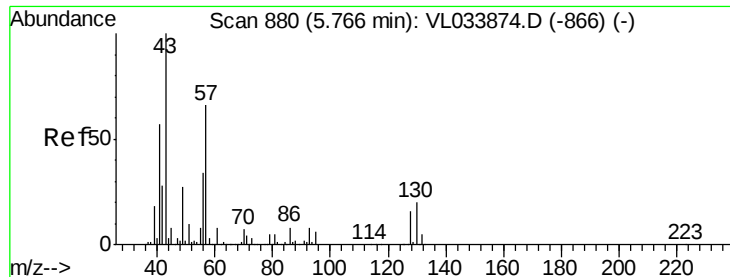
Tgt Ion: 45 Resp: 3948
Ion Ratio Lower Upper
45 100
58 0.0 1.8 2.6#



#20
Methylene Chloride
Concen: 0.242 ppbv
RT: 4.39 min Scan# 452
Delta R.T. -0.01 min
Lab File: VL033977.D
Acq: 26 Jun 2019 21:16

Tgt Ion: 84 Resp: 11893
Ion Ratio Lower Upper
84 100
49 146.9 110.0 165.0
51 38.5 34.6 51.8
86 66.8 50.6 75.8

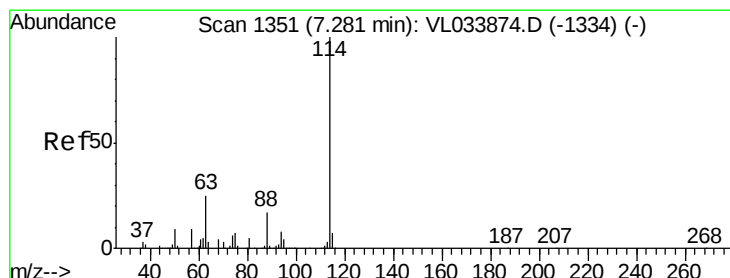
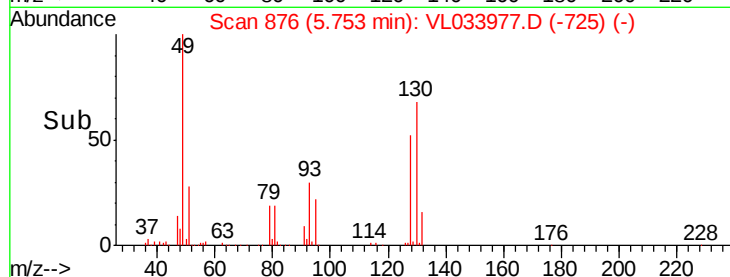
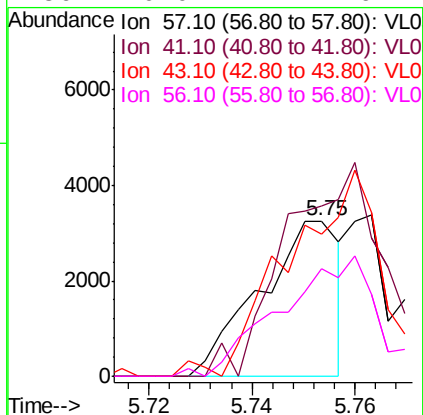
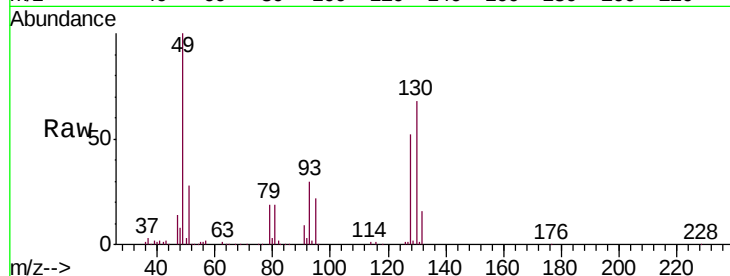




#26
Hexane
Concen: 0.040 ppbv
RT: 5.75 min Scan# 876
Delta R.T. -0.01 min
Lab File: VL033977.D
Acq: 26 Jun 2019 21:16

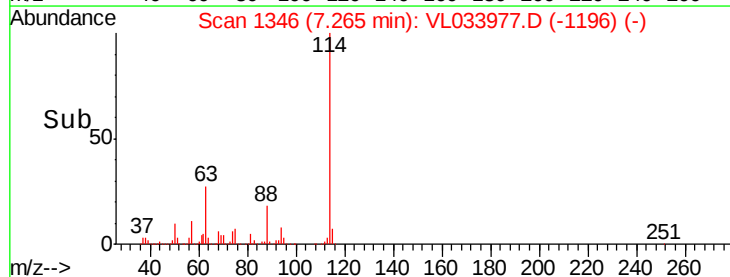
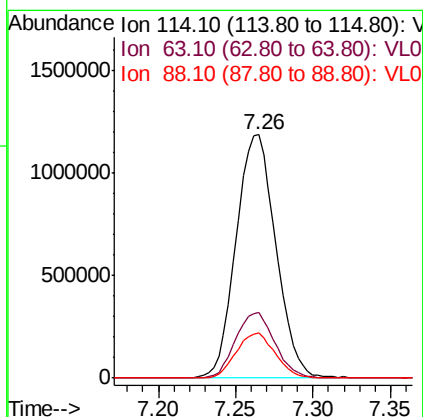
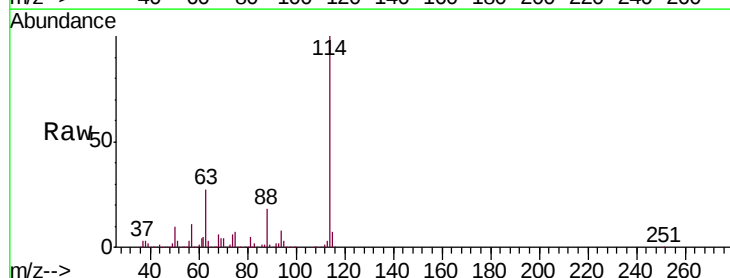
Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-B-1DL

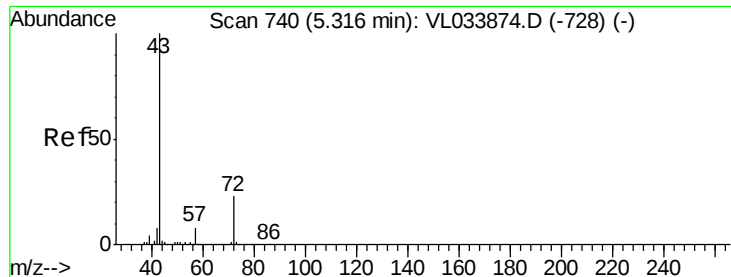
Tgt Ion: 57 Resp: 3482
Ion Ratio Lower Upper
57 100
41 0.0 71.4 107.2#
43 0.0 183.7 275.5#
56 0.0 42.7 64.1#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.26 min Scan# 1346
Delta R.T. -0.02 min
Lab File: VL033977.D
Acq: 26 Jun 2019 21:16

Tgt Ion: 114 Resp: 2118293
Ion Ratio Lower Upper
114 100
63 26.8 21.1 31.7
88 18.2 14.2 21.4





#34

2-Butanone

Concen: 0.051 ppbv

RT: 5.32 min Scan# 740

Delta R.T. -0.00 min

Lab File: VL033977.D

Acq: 26 Jun 2019 21:16

Instrument :

MSVOA_L

ClientSampleId :

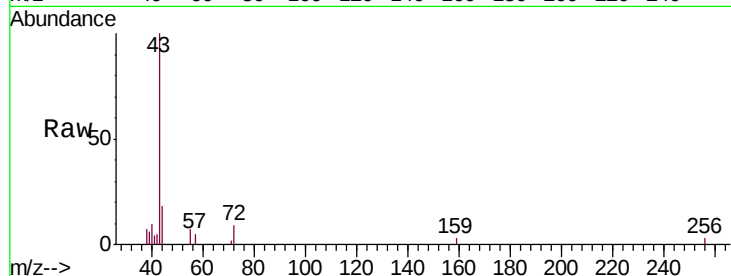
TZC-SSDS-AREA-B-1DL

Tgt Ion: 43 Resp: 6143

Ion Ratio Lower Upper

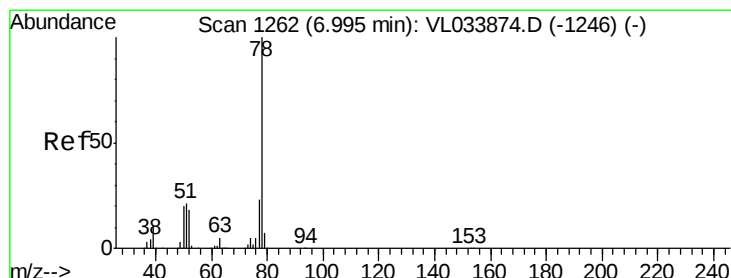
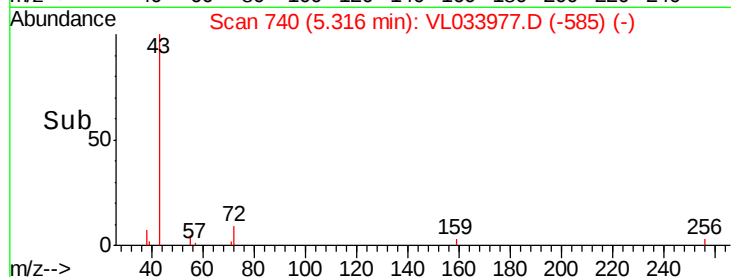
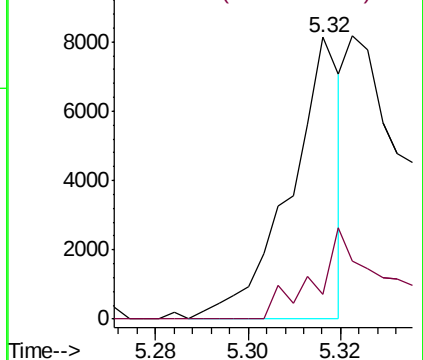
43 100

72 0.0 17.9 26.9#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#36

Benzene

Concen: 0.062 ppbv

RT: 6.98 min Scan# 1257

Delta R.T. -0.02 min

Lab File: VL033977.D

Acq: 26 Jun 2019 21:16

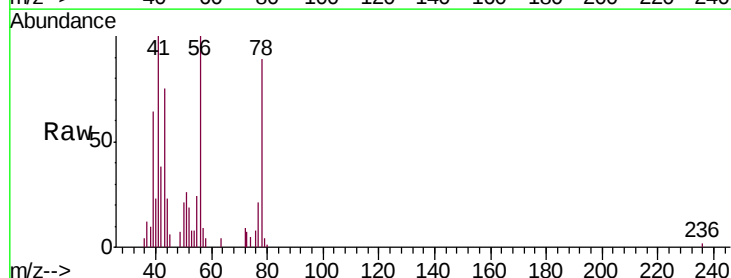
Tgt Ion: 78 Resp: 10095

Ion Ratio Lower Upper

78 100

77 24.0 18.2 27.2

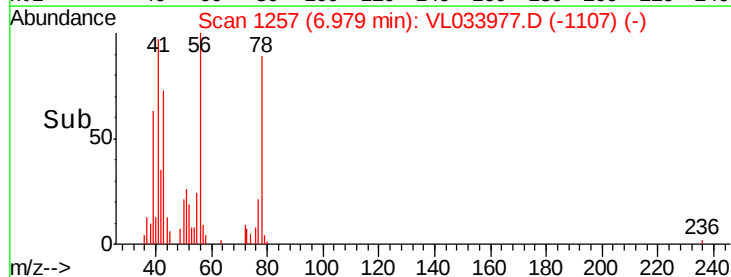
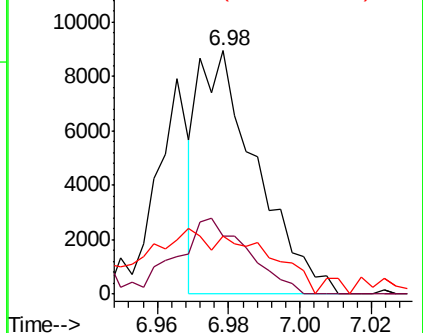
50 17.4 15.9 23.9

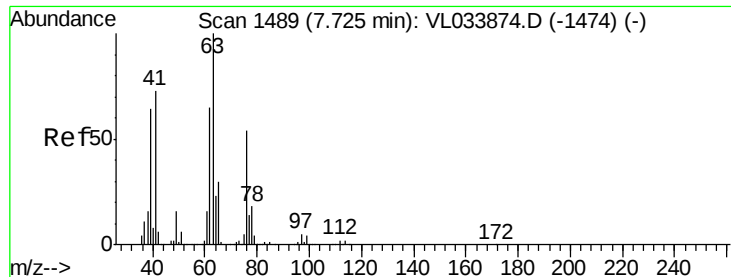


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

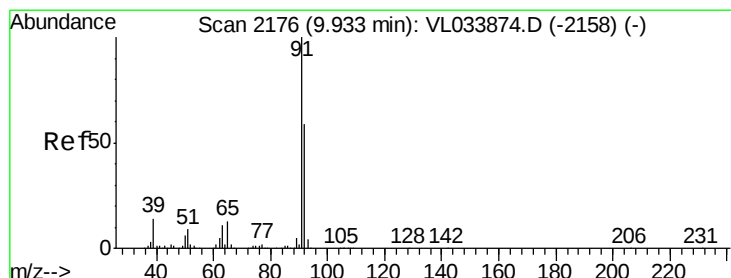
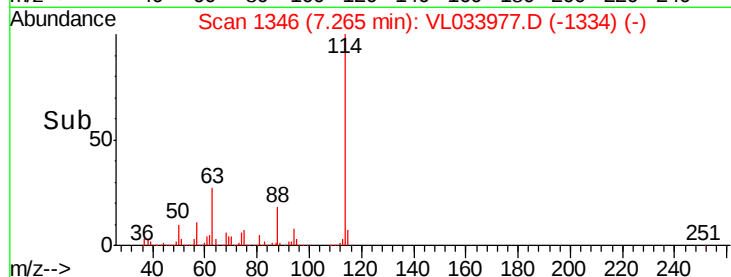
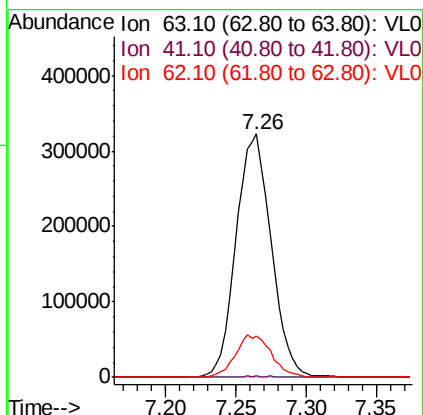
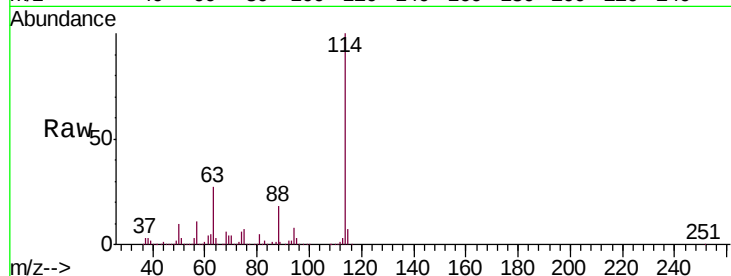




#39
 1,2-Dichloropropane
 Concen: 9.051 ppbv
 RT: 7.26 min Scan# 1346
 Delta R.T. -0.46 min
 Lab File: VL033977.D
 Acq: 26 Jun 2019 21:16

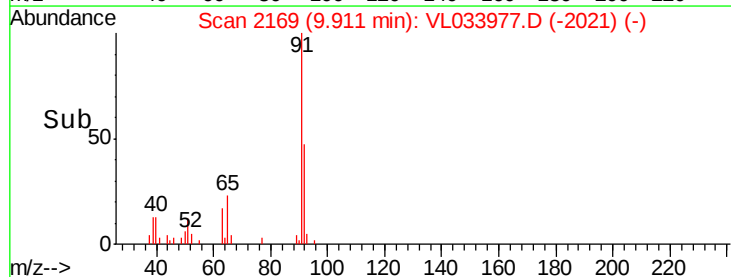
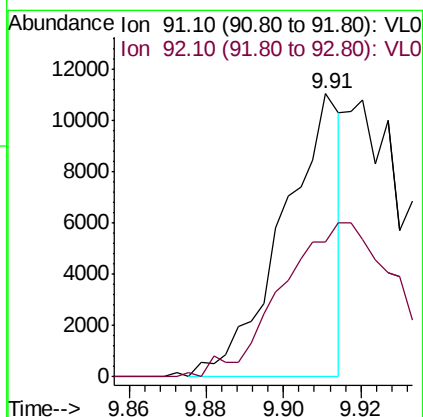
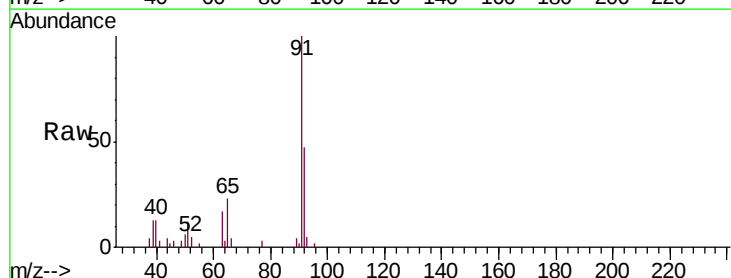
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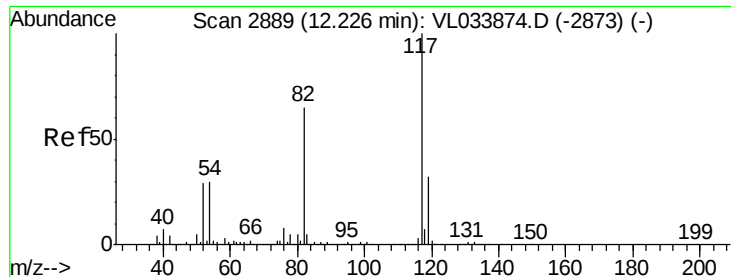
Tgt Ion: 63 Resp: 565278
 Ion Ratio Lower Upper
 63 100
 41 0.6 58.7 88.1#
 62 16.9 51.9 77.9#



#53
 Toluene
 Concen: 0.063 ppbv
 RT: 9.91 min Scan# 2169
 Delta R.T. -0.02 min
 Lab File: VL033977.D
 Acq: 26 Jun 2019 21:16

Tgt Ion: 91 Resp: 11366
 Ion Ratio Lower Upper
 91 100
 92 0.0 47.0 70.6#

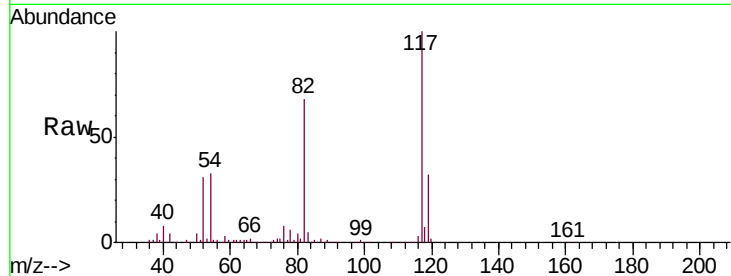




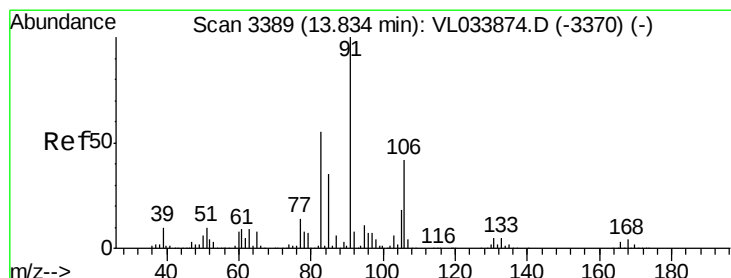
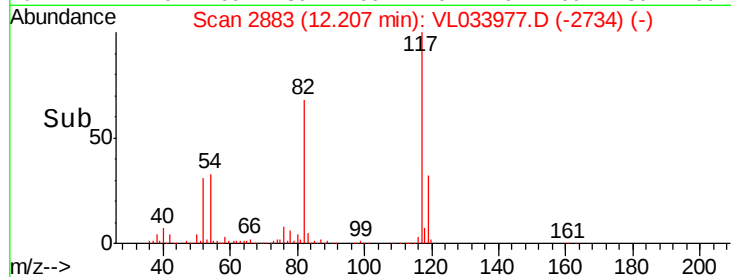
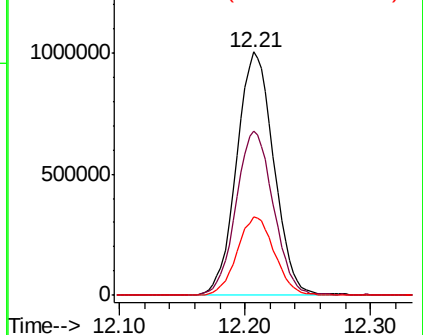
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.21 min Scan# 2883
Delta R.T. -0.02 min
Lab File: VL033977.D
Acq: 26 Jun 2019 21:16

Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-B-1DL

Tgt Ion: 117 Resp: 2069672
Ion Ratio Lower Upper
117 100
82 68.6 50.2 75.2
119 32.5 24.8 37.2

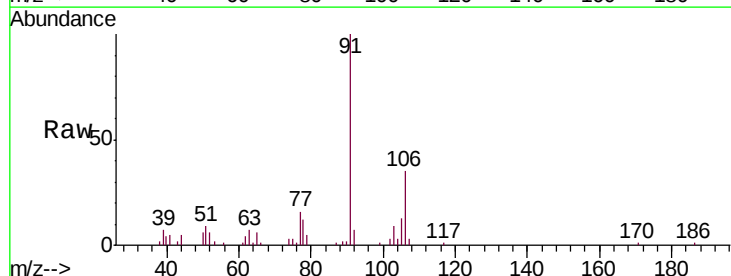


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

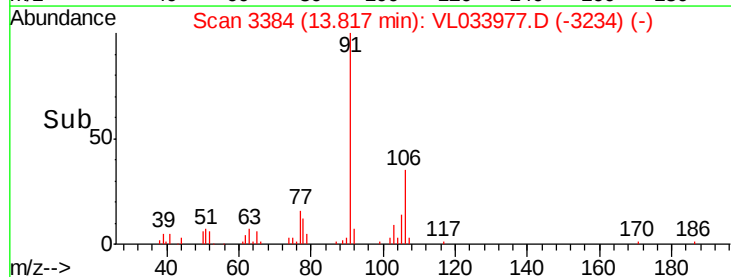
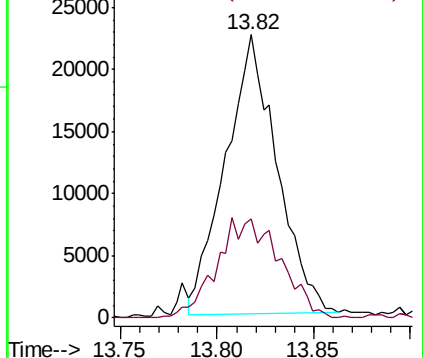


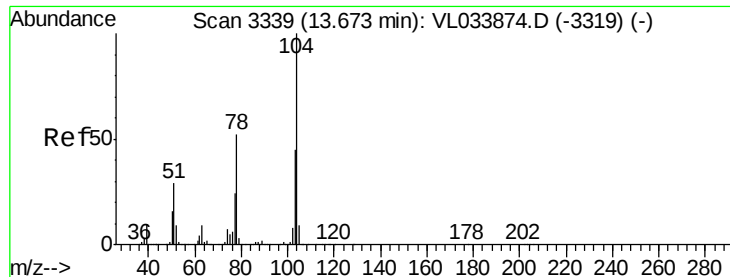
#60
o-Xylene
Concen: 0.190 ppbv
RT: 13.82 min Scan# 3384
Delta R.T. -0.02 min
Lab File: VL033977.D
Acq: 26 Jun 2019 21:16

Tgt Ion: 91 Resp: 41628
Ion Ratio Lower Upper
91 100
106 43.7 21.7 65.1



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





#61

Styrene

Concen: 5.033 ppbv

RT: 13.65 min Scan# 3333

Delta R.T. -0.02 min

Lab File: VL033977.D

Acq: 26 Jun 2019 21:16

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-B-1DL

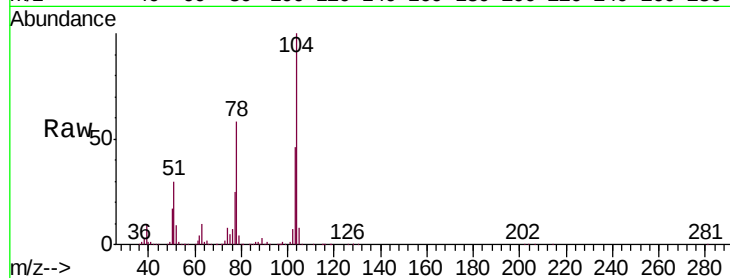
Tgt Ion: 104 Resp: 713585

Ion Ratio Lower Upper

104 100

78 57.9 43.4 65.0

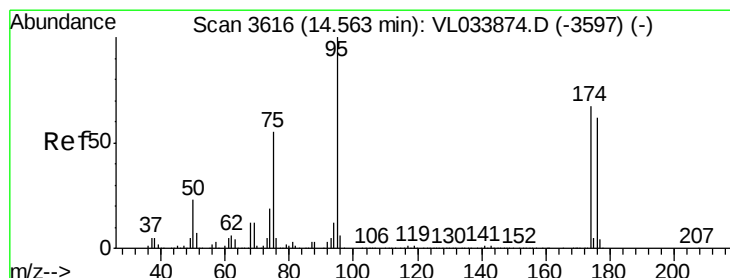
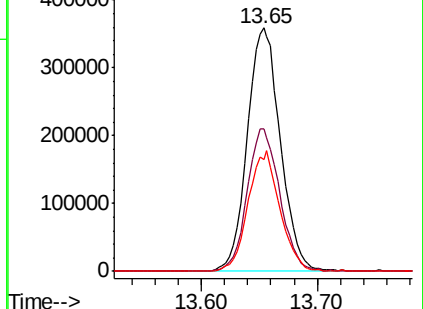
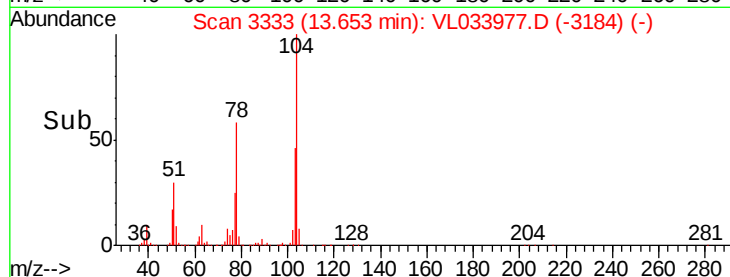
103 47.8 37.6 56.4



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



#68

1-Bromo-4-Fluorobenzene

Concen: 10.948 ppbv

RT: 14.54 min Scan# 3610

Delta R.T. -0.02 min

Lab File: VL033977.D

Acq: 26 Jun 2019 21:16

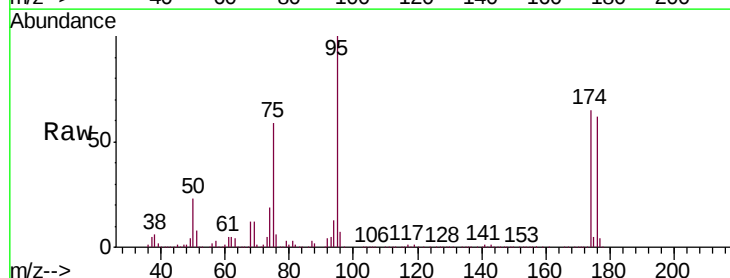
Tgt Ion: 95 Resp: 1861154

Ion Ratio Lower Upper

95 100

174 66.1 54.0 81.0

175 4.7 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

