

Data File : VL033978.D
Acq On : 26 Jun 2019 21:54
Operator : SY/AP
Sample : K3481-07DL2 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-D-1DL2

Quant Time: Jun 27 01:25:12 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	5.74	49	780928	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.26	114	1938929	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.21	117	1854529	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.54	95	1675654	11.00	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.00%

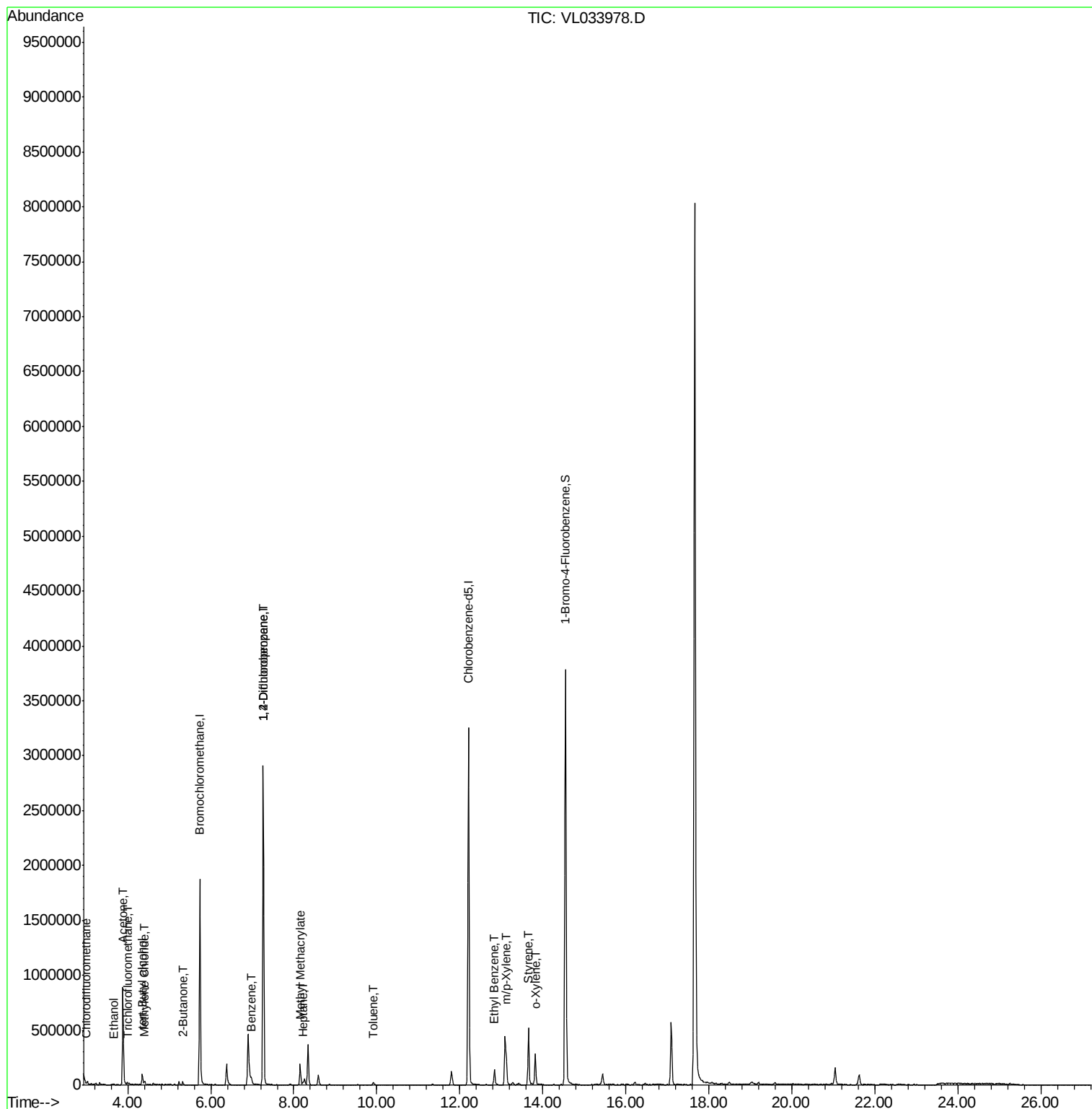
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.00	51	5855	0.064	ppbv	96
10) Heptane	8.21	43	2997	0.034	ppbv #	26
11) Trichlorofluoromethane	3.99	101	11443	0.070	ppbv	91
13) Ethanol	3.64	45	2707	0.242	ppbv #	37
15) Acetone	3.88	43	912332	8.010	ppbv	99
17) tert-Butyl alcohol	4.35	59	69649	0.782	ppbv	97
20) Methylene Chloride	4.39	84	5865	0.132	ppbv #	69
34) 2-Butanone	5.33	43	27251	0.249	ppbv	100
36) Benzene	6.98	78	31272	0.211	ppbv	94
39) 1,2-Dichloropropane	7.26	63	508942	8.903	ppbv #	26
43) Methyl Methacrylate	8.16	69	29737	0.537	ppbv #	44
53) Toluene	9.92	91	12322	0.075	ppbv #	66
58) Ethyl Benzene	12.84	91	108633	0.520	ppbv	98
59) m/p-Xylene	13.12	91	121130	0.637	ppbv #	31
60) o-Xylene	13.82	91	207055	1.055	ppbv	99
61) Styrene	13.65	104	252608	1.988	ppbv	97

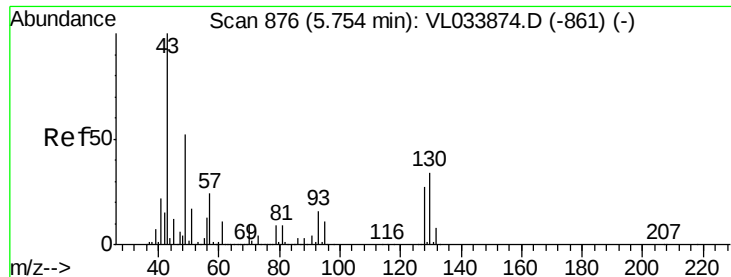
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.74 min Scan# 871

Delta R.T. -0.02 min

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Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-D-1DL2

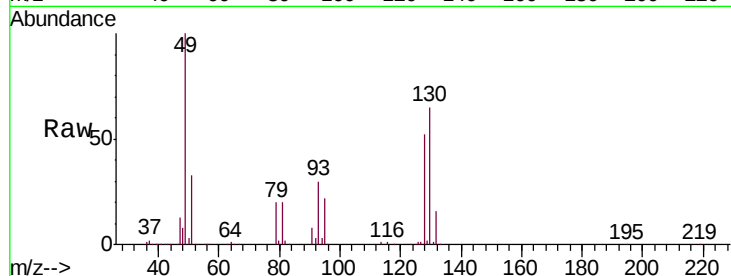
Tgt Ion: 49 Resp: 780928

Ion Ratio Lower Upper

49 100

128 51.1 25.5 76.5

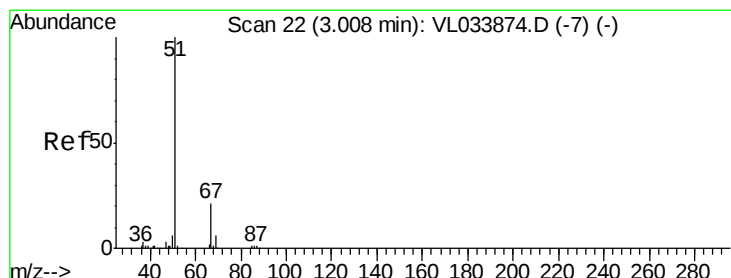
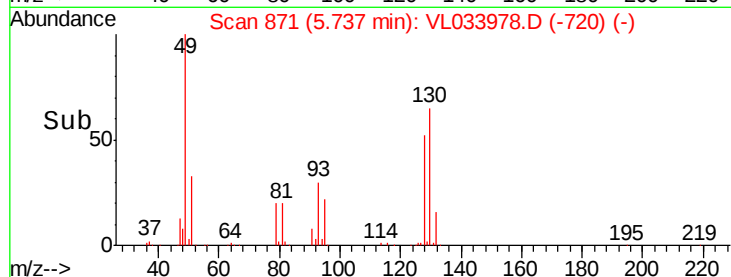
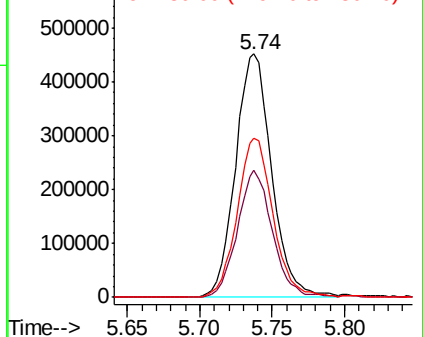
130 65.7 32.5 97.4



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: 0.064 ppbv

RT: 3.00 min Scan# 20

Delta R.T. -0.01 min

Lab File: VL033978.D

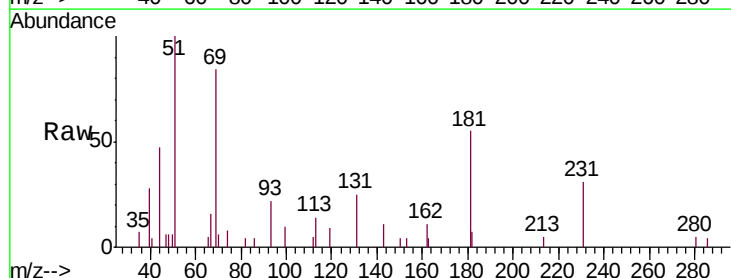
Acq: 26 Jun 2019 21:54

Tgt Ion: 51 Resp: 5855

Ion Ratio Lower Upper

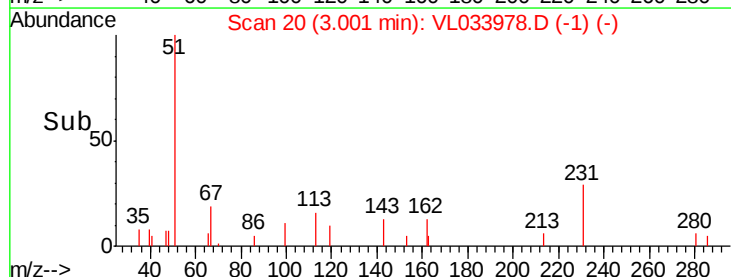
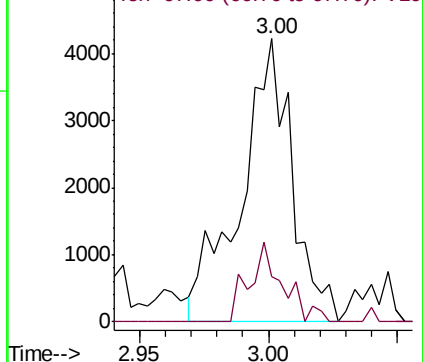
51 100

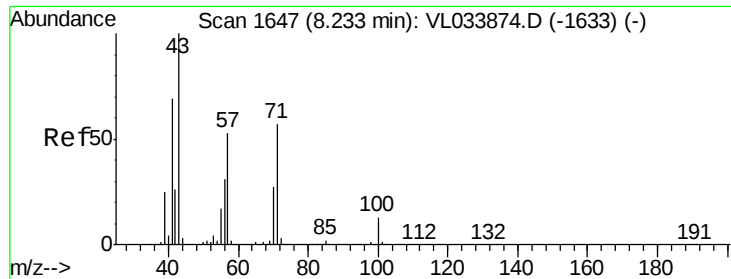
67 18.5 16.4 24.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#10

Heptane

Concen: 0.034 ppbv

RT: 8.21 min Scan# 1640

Delta R.T. -0.02 min

Lab File: VL033978.D

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Instrument :

MSVOA_L

ClientSampleId :

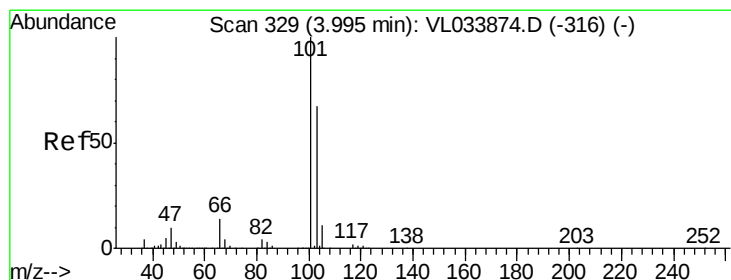
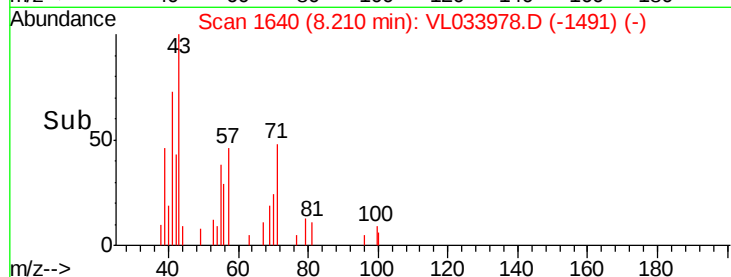
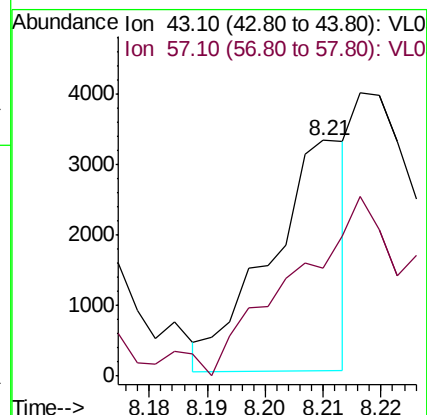
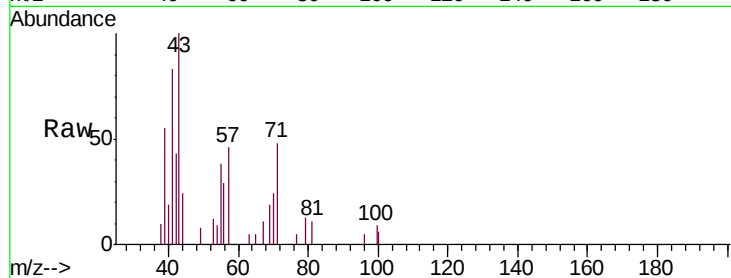
TZC-SSDS-AREA-D-1DL2

Tgt Ion: 43 Resp: 2997

Ion Ratio Lower Upper

43 100

57 0.0 41.7 62.5#



#11

Trichlorofluoromethane

Concen: 0.070 ppbv

RT: 3.99 min Scan# 327

Delta R.T. -0.01 min

Lab File: VL033978.D

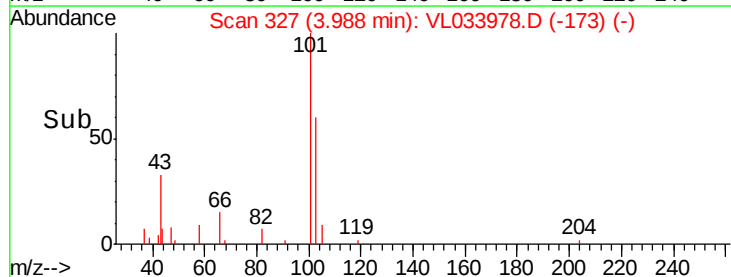
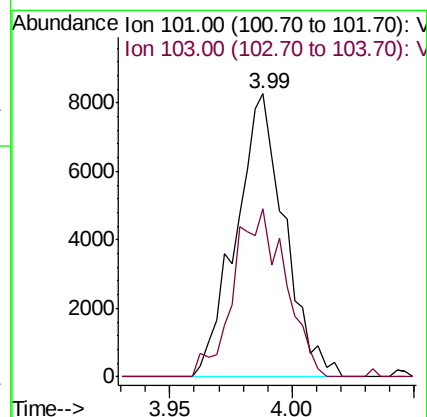
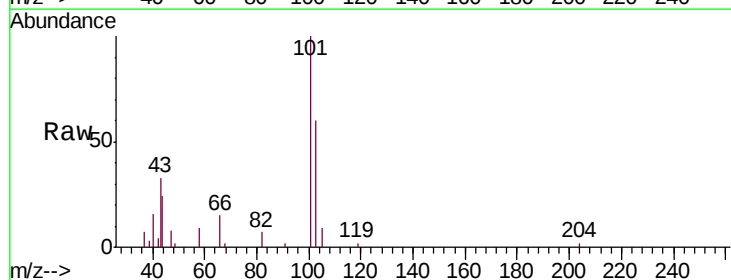
Acq: 26 Jun 2019 21:54

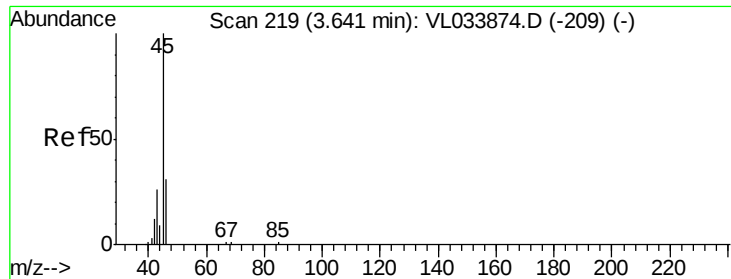
Tgt Ion: 101 Resp: 11443

Ion Ratio Lower Upper

101 100

103 59.5 53.6 80.4

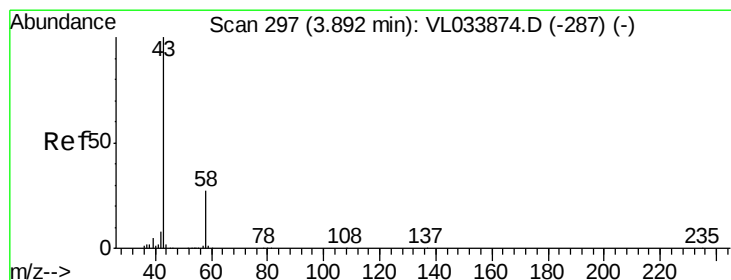
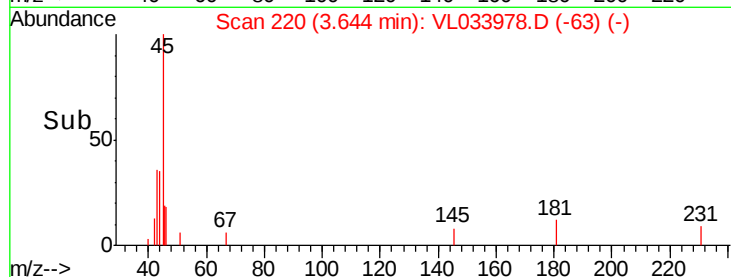
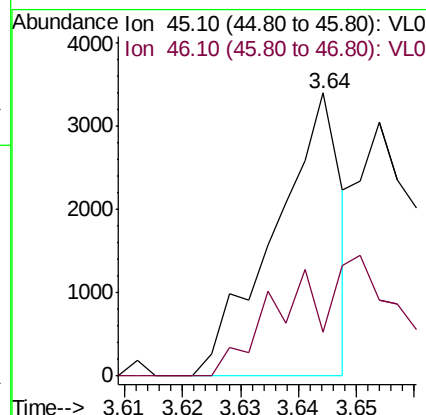
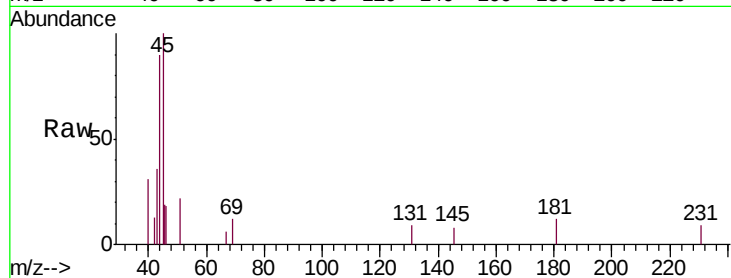




#13
Ethanol
Concen: 0.242 ppbv
RT: 3.64 min Scan# 220
Delta R.T. 0.00 min
Lab File: VL033978.D
Acq: 26 Jun 2019 21:54

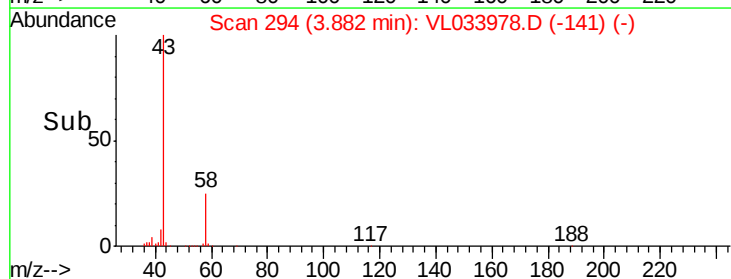
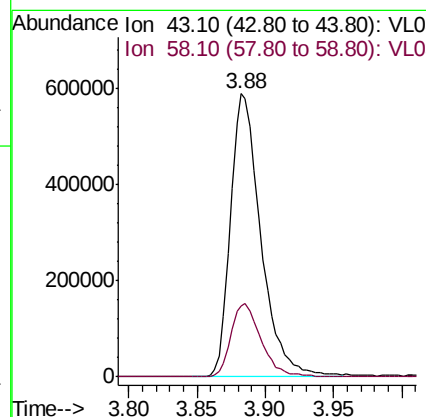
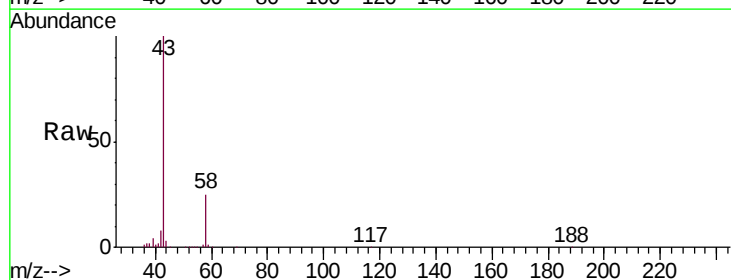
Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-D-1DL2

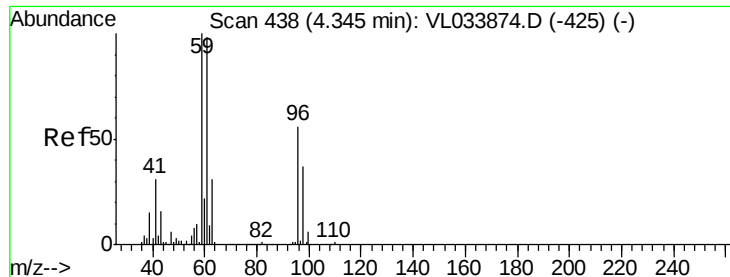
Tgt Ion: 45 Resp: 2707
Ion Ratio Lower Upper
45 100
46 0.0 15.3 61.1#



#15
Acetone
Concen: 8.010 ppbv
RT: 3.88 min Scan# 294
Delta R.T. -0.01 min
Lab File: VL033978.D
Acq: 26 Jun 2019 21:54

Tgt Ion: 43 Resp: 912332
Ion Ratio Lower Upper
43 100
58 26.2 21.3 31.9



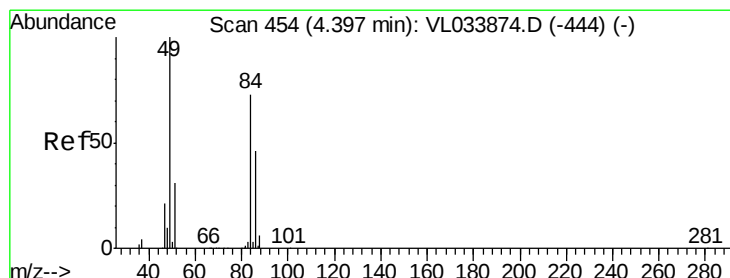
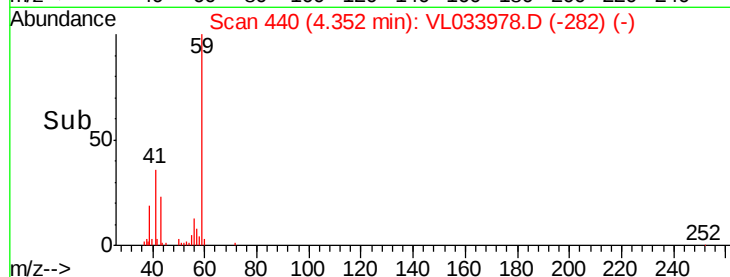
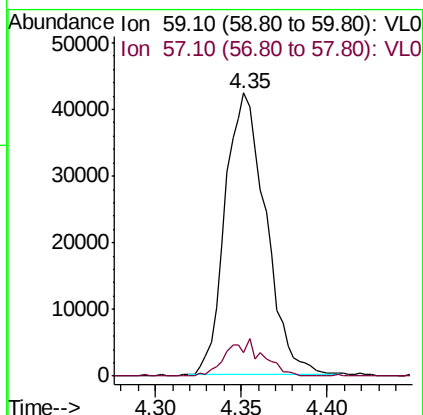
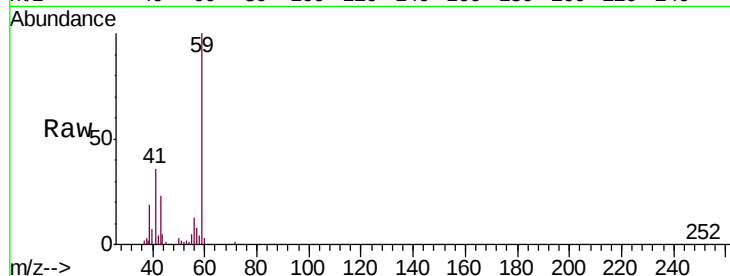


#17

tert-Butyl alcohol
 Concen: 0.782 ppbv
 RT: 4.35 min Scan# 440
 Delta R.T. 0.01 min
 Lab File: VL033978.D
 Acq: 26 Jun 2019 21:54

Instrument :
 MSVOA_L
 ClientSampleId :
 TZC-SSDS-AREA-D-1DL2

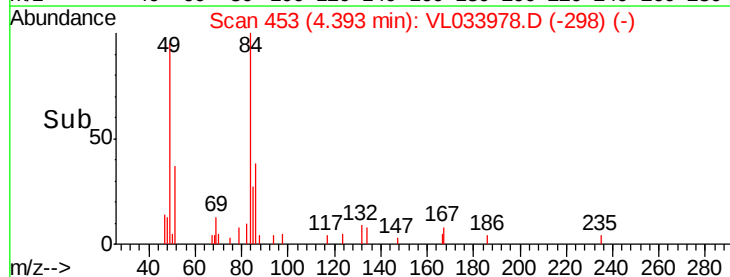
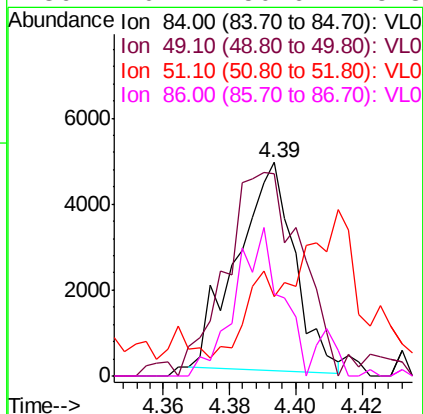
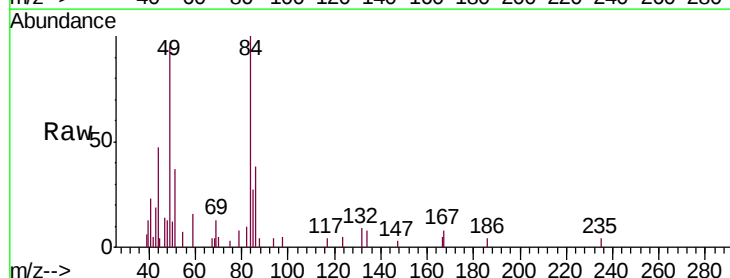
Tgt Ion: 59 Resp: 69649
 Ion Ratio Lower Upper
 59 100
 57 11.8 8.4 12.6

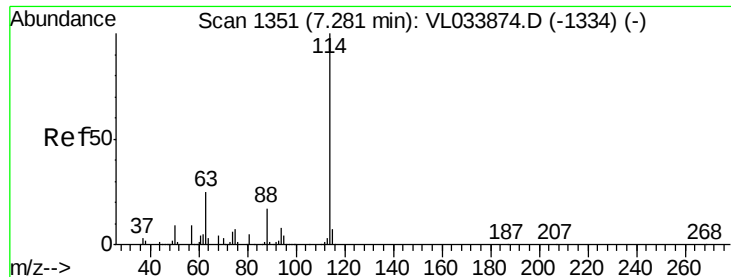


#20

Methylene Chloride
 Concen: 0.132 ppbv
 RT: 4.39 min Scan# 453
 Delta R.T. -0.00 min
 Lab File: VL033978.D
 Acq: 26 Jun 2019 21:54

Tgt Ion: 84 Resp: 5865
 Ion Ratio Lower Upper
 84 100
 49 98.9 110.0 165.0#
 51 25.6 34.6 51.8#
 86 40.1 50.6 75.8#

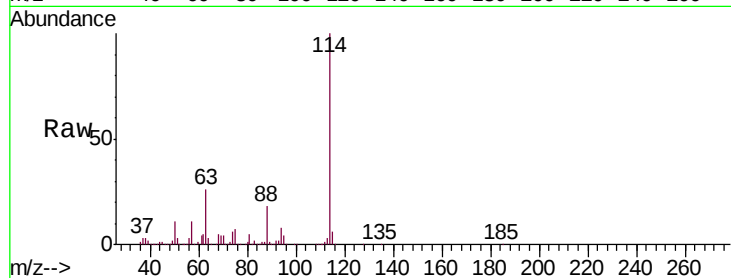




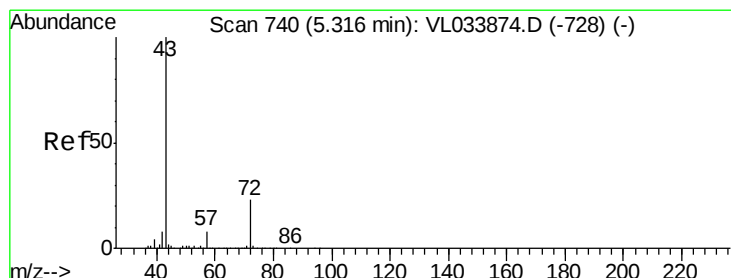
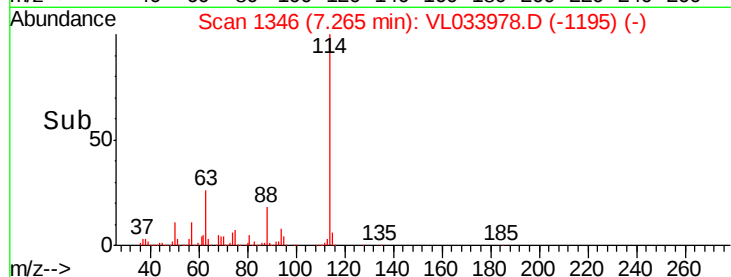
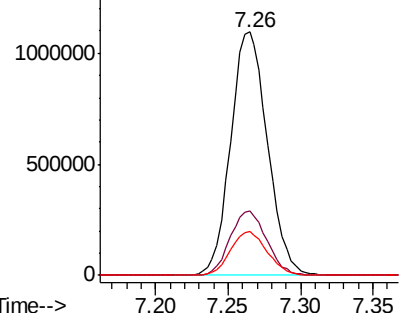
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.26 min Scan# 1346
 Delta R.T. -0.02 min
 Lab File: VL033978.D
 Acq: 26 Jun 2019 21:54

Instrument :
 MSVOA_L
 ClientSampleId :
 TZC-SSDS-AREA-D-1DL2

Tgt Ion: 114 Resp: 1938929
 Ion Ratio Lower Upper
 114 100
 63 26.4 21.1 31.7
 88 17.9 14.2 21.4

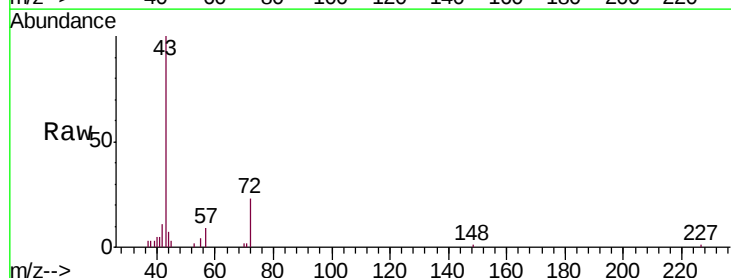


Abundance Ion 114.10 (113.80 to 114.80): V
 1500000 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

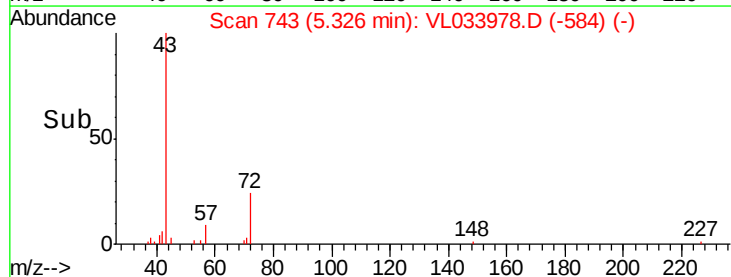
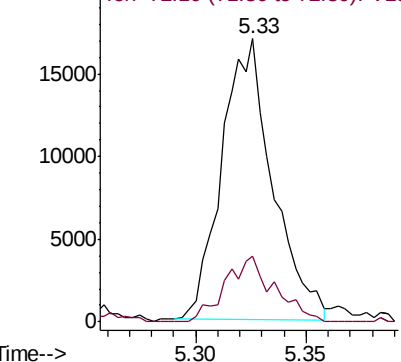


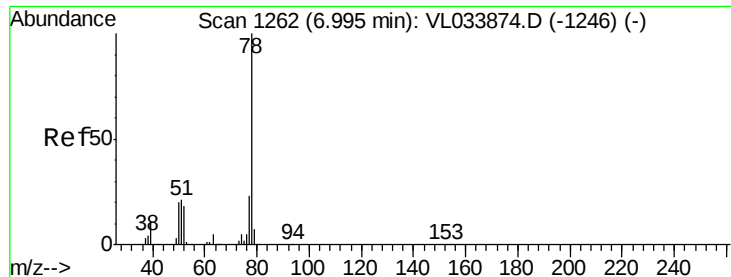
#34
 2-Butanone
 Concen: 0.249 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. 0.01 min
 Lab File: VL033978.D
 Acq: 26 Jun 2019 21:54

Tgt Ion: 43 Resp: 27251
 Ion Ratio Lower Upper
 43 100
 72 22.6 17.9 26.9



Abundance Ion 43.10 (42.80 to 43.80): VL0
 20000 Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.211 ppbv

RT: 6.98 min Scan# 1256

Delta R.T. -0.02 min

Lab File: VL033978.D

Acq: 26 Jun 2019 21:54

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-D-1DL2

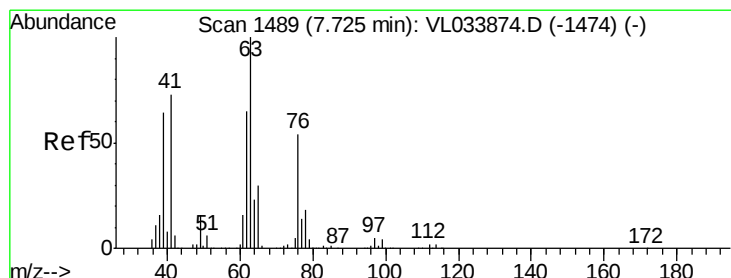
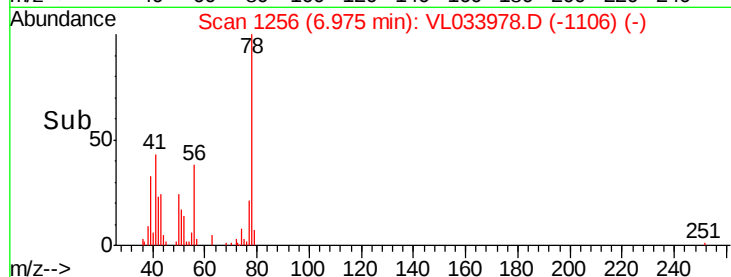
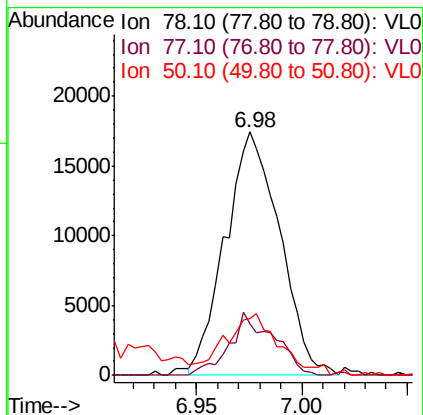
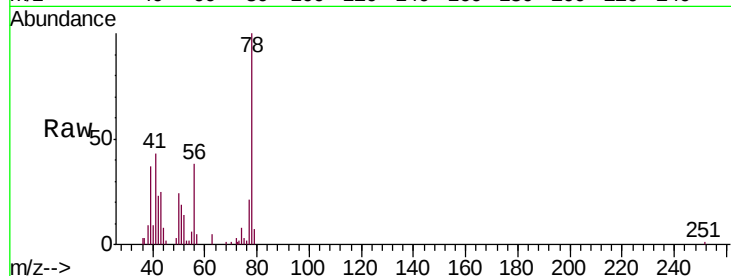
Tgt Ion: 78 Resp: 31272

Ion Ratio Lower Upper

78 100

77 19.9 18.2 27.2

50 22.3 15.9 23.9



#39

1,2-Dichloropropane

Concen: 8.903 ppbv

RT: 7.26 min Scan# 1346

Delta R.T. -0.46 min

Lab File: VL033978.D

Acq: 26 Jun 2019 21:54

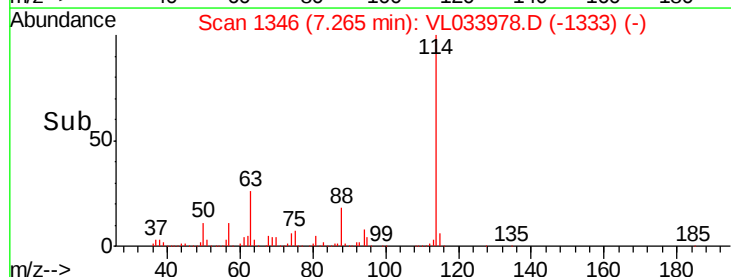
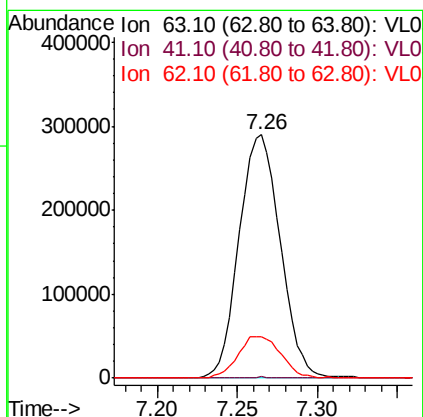
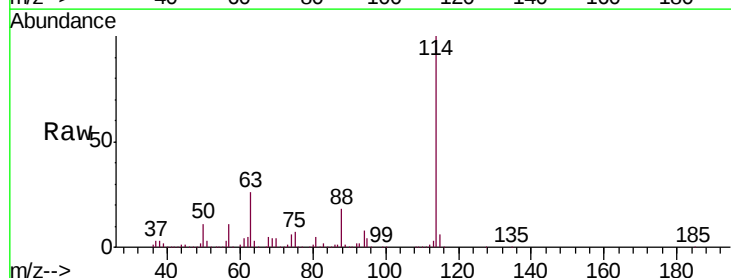
Tgt Ion: 63 Resp: 508942

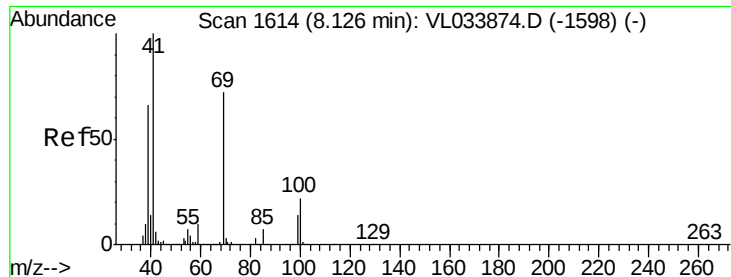
Ion Ratio Lower Upper

63 100

41 0.4 58.7 88.1#

62 17.2 51.9 77.9#

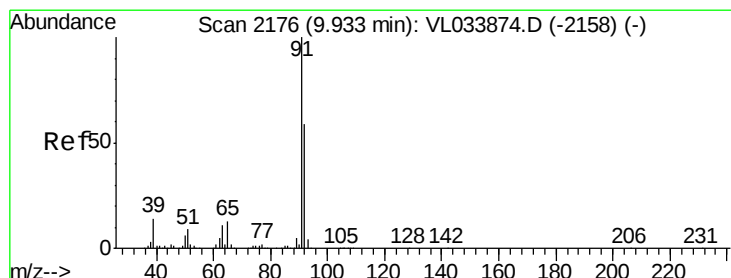
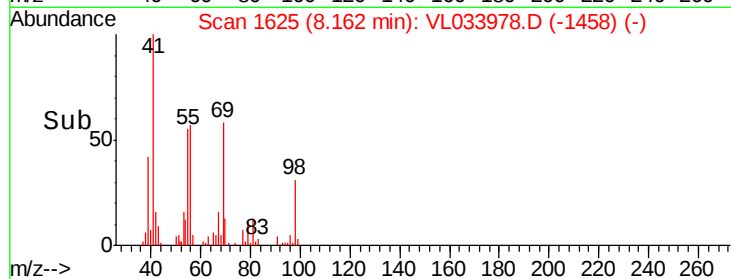
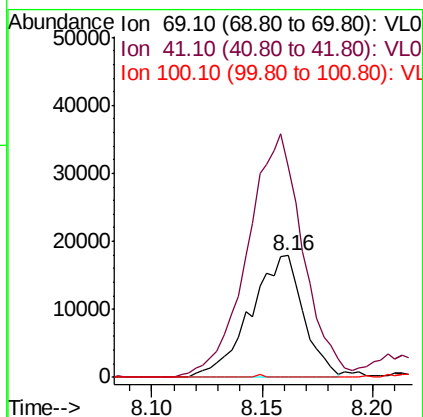
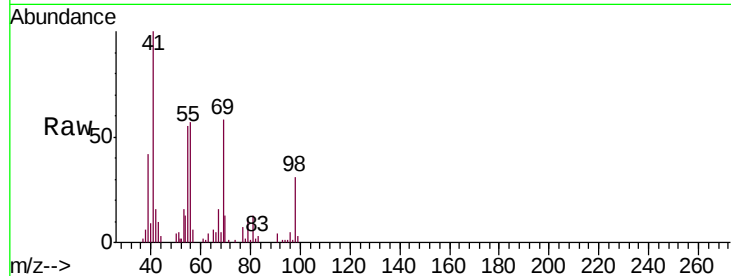




#43
Methyl Methacrylate
Concen: 0.537 ppbv
RT: 8.16 min Scan# 1625
Delta R.T. 0.04 min
Lab File: VL033978.D
Acq: 26 Jun 2019 21:54

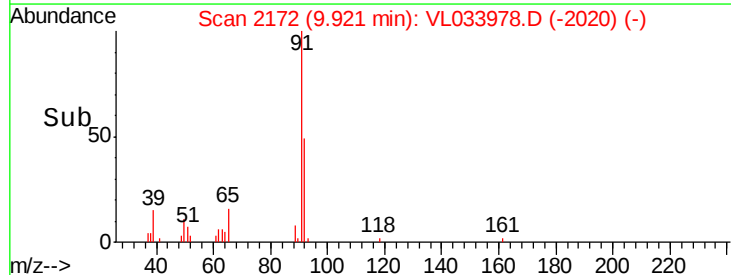
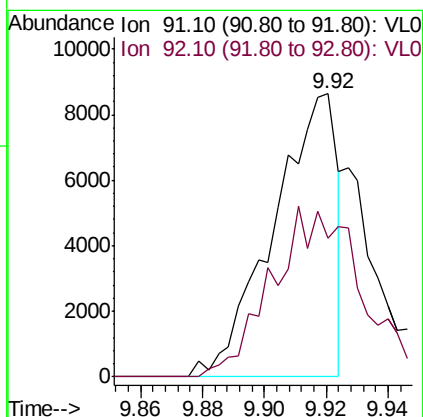
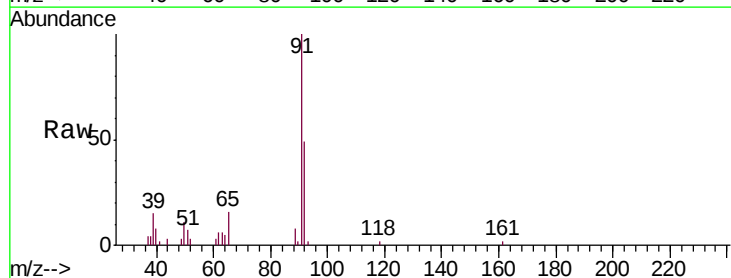
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TZC-SSDS-AREA-D-1DL2

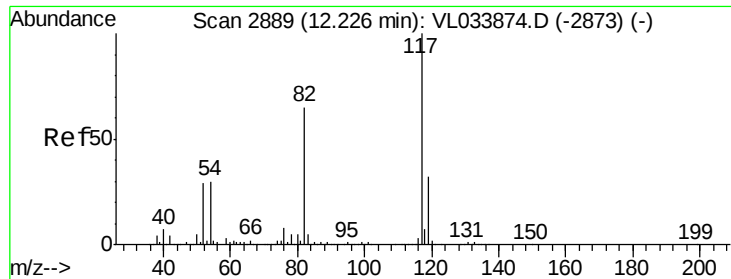
Tgt Ion: 69 Resp: 29737
Ion Ratio Lower Upper
69 100
41 211.8 114.3 171.5#
100 0.2 24.8 37.2#



#53
Toluene
Concen: 0.075 ppbv
RT: 9.92 min Scan# 2172
Delta R.T. -0.01 min
Lab File: VL033978.D
Acq: 26 Jun 2019 21:54

Tgt Ion: 91 Resp: 12322
Ion Ratio Lower Upper
91 100
92 84.4 47.0 70.6#

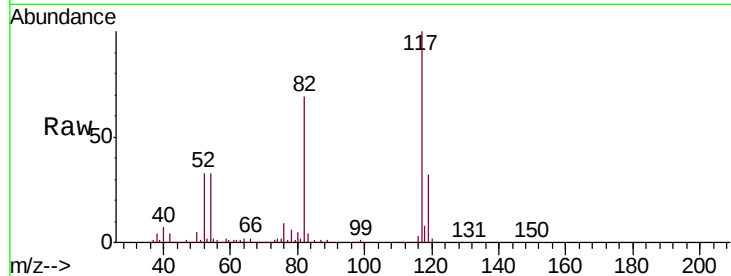




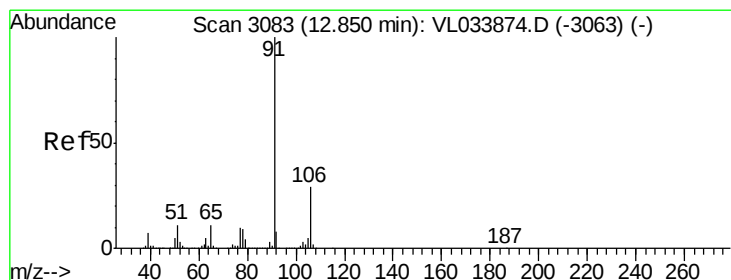
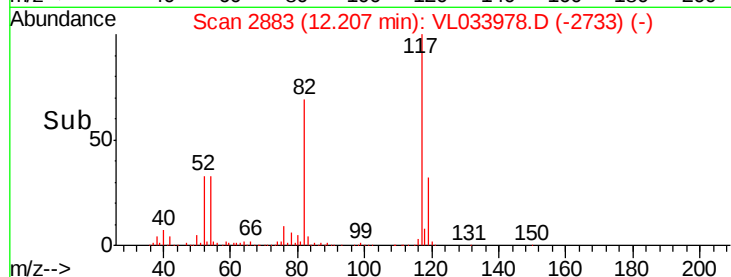
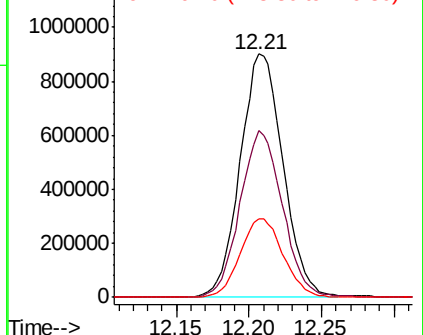
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.21 min Scan# 2883
Delta R.T. -0.02 min
Lab File: VL033978.D
Acq: 26 Jun 2019 21:54

Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-D-1DL2

Tgt Ion: 117 Resp: 1854529
Ion Ratio Lower Upper
117 100
82 68.1 50.2 75.2
119 32.7 24.8 37.2

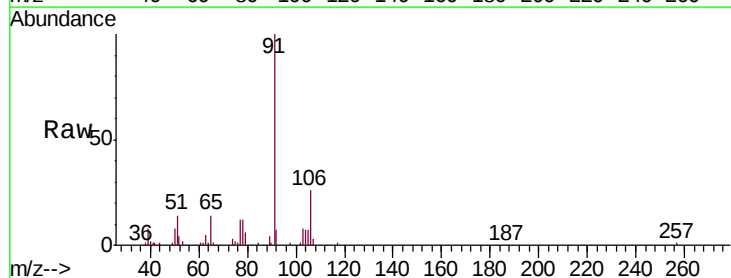


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

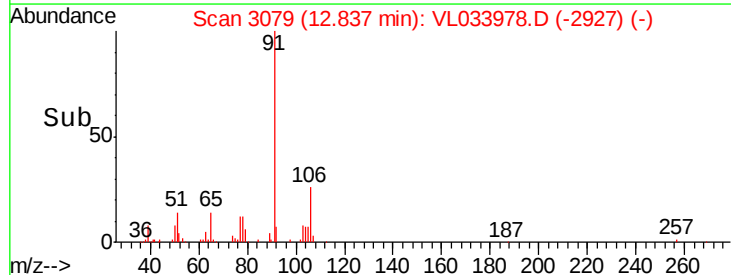
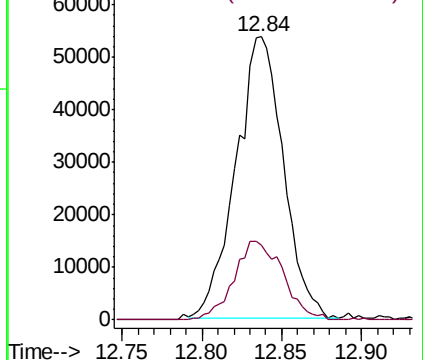


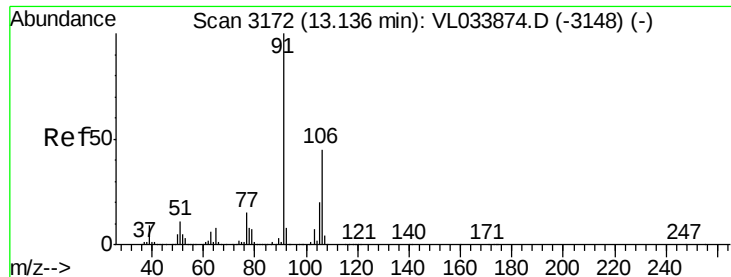
#58
Ethyl Benzene
Concen: 0.520 ppbv
RT: 12.84 min Scan# 3079
Delta R.T. -0.01 min
Lab File: VL033978.D
Acq: 26 Jun 2019 21:54

Tgt Ion: 91 Resp: 108633
Ion Ratio Lower Upper
91 100
106 29.7 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: 0.637 ppbv

RT: 13.12 min Scan# 3166

Delta R.T. -0.02 min

Lab File: VL033978.D

Acq: 26 Jun 2019 21:54

Instrument :

MSVOA_L

ClientSampleId :

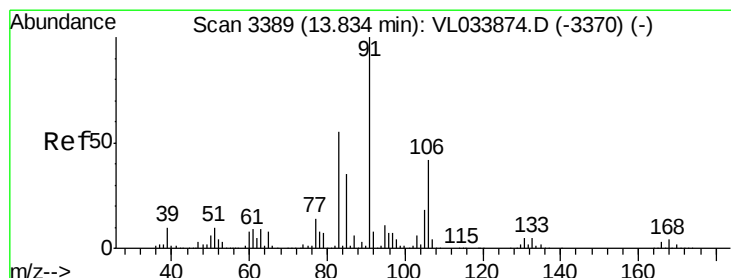
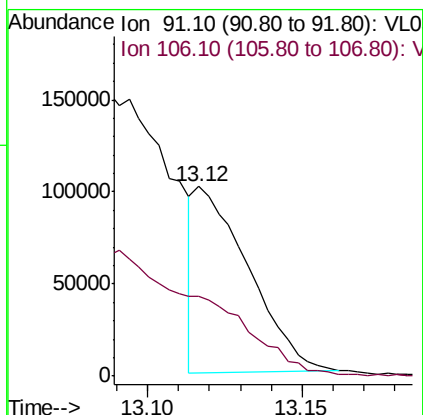
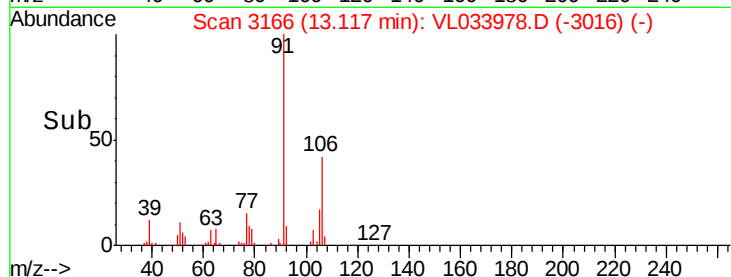
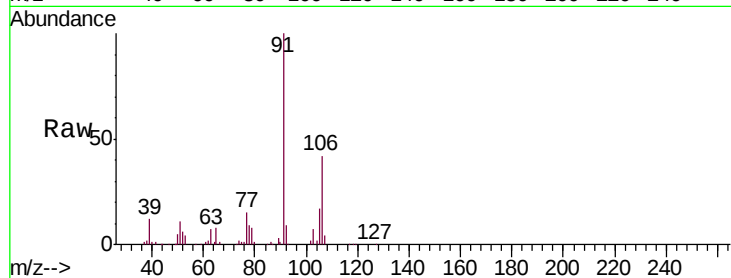
TZC-SSDS-AREA-D-1DL2

Tgt Ion: 91 Resp: 121130

Ion Ratio Lower Upper

91 100

106 0.0 35.8 53.8#



#60

o-Xylene

Concen: 1.055 ppbv

RT: 13.82 min Scan# 3385

Delta R.T. -0.01 min

Lab File: VL033978.D

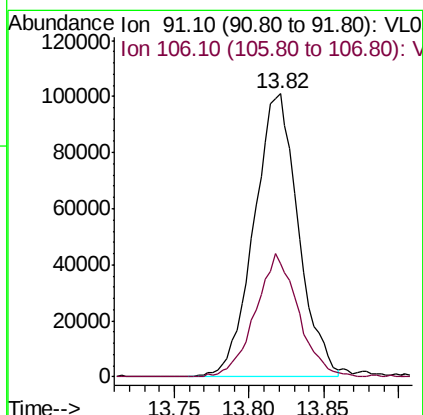
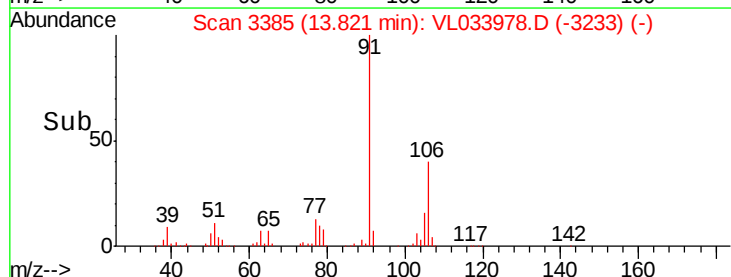
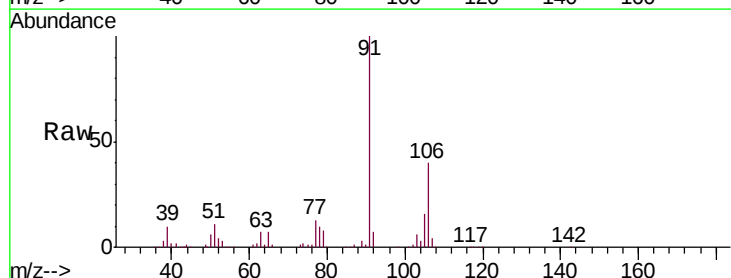
Acq: 26 Jun 2019 21:54

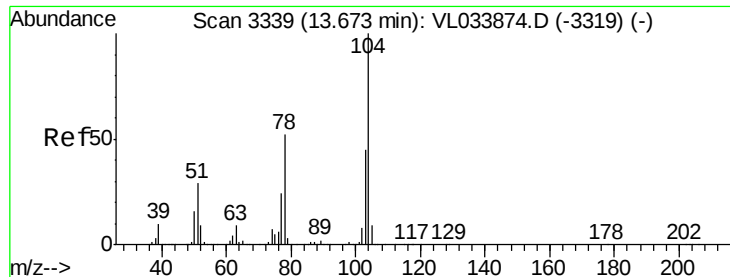
Tgt Ion: 91 Resp: 207055

Ion Ratio Lower Upper

91 100

106 42.6 21.7 65.1

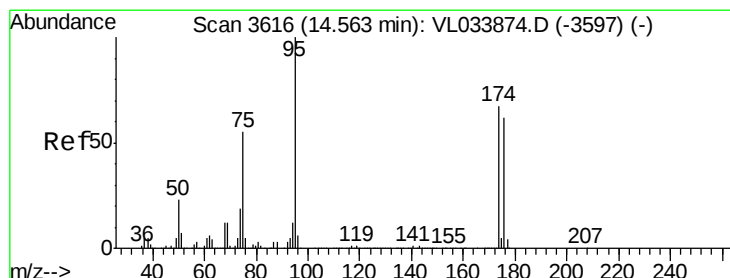
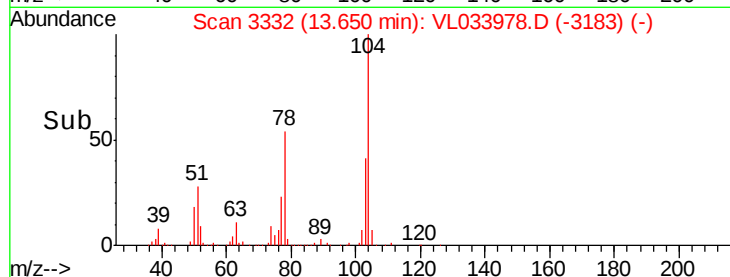
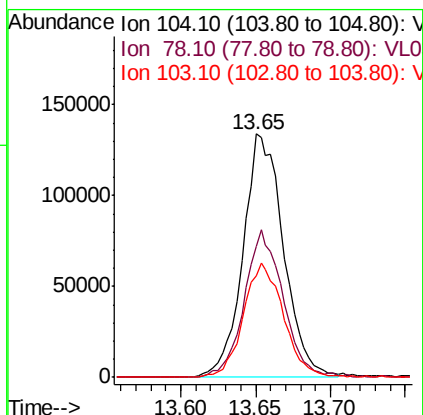
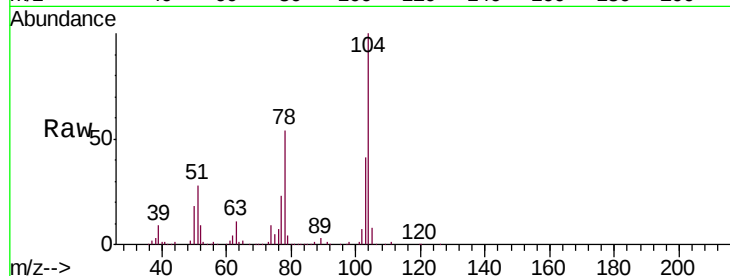




#61
Styrene
Concen: 1.988 ppbv
RT: 13.65 min Scan# 3332
Delta R.T. -0.02 min
Lab File: VL033978.D
Acq: 26 Jun 2019 21:54

Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-D-1DL2

Tgt Ion: 104 Resp: 252608
Ion Ratio Lower Upper
104 100
78 58.3 43.4 65.0
103 46.9 37.6 56.4



#68
1-Bromo-4-Fluorobenzene
Concen: 11.000 ppbv
RT: 14.54 min Scan# 3610
Delta R.T. -0.02 min
Lab File: VL033978.D
Acq: 26 Jun 2019 21:54

Tgt Ion: 95 Resp: 1675654
Ion Ratio Lower Upper
95 100
174 65.6 54.0 81.0
175 4.7 3.8 5.8

