

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062419\
 Data File : VL033941.D
 Acq On : 24 Jun 2019 17:57
 Operator : SY/AP
 Sample : K3481-08DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

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

Quant Time: Jun 25 03:39:17 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	938130	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.26	114	2285411	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.21	117	2342080	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene		14.55	95	1898517	9.87	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.70%	

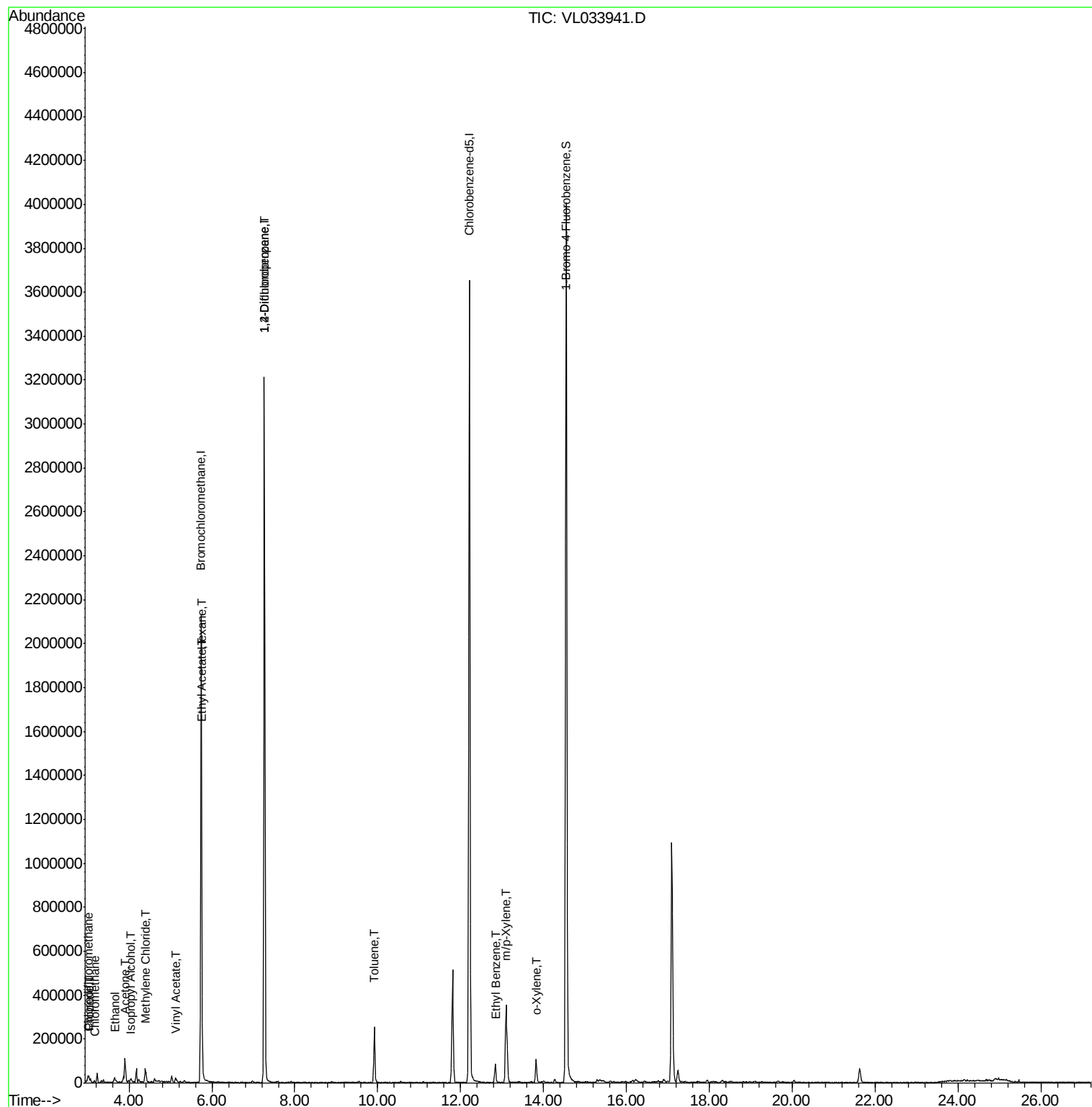
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.01	51	26368	0.239	ppbv	95
4) Chloromethane	3.16	50	3878	0.062	ppbv #	84
9) Propene	3.04	41	3902	0.094	ppbv	92
13) Ethanol	3.65	45	12252	0.911	ppbv #	50
15) Acetone	3.90	43	103024	0.753	ppbv	99
19) Isopropyl Alcohol	4.03	45	7338	0.094	ppbv #	94
20) Methylene Chloride	4.39	84	17612	0.330	ppbv	95
23) Vinyl Acetate	5.13	43	9106	0.057	ppbv #	62
25) Ethyl Acetate	5.76	43	14339	0.069	ppbv #	78
26) Hexane	5.76	57	9754	0.103	ppbv #	36
39) 1,2-Dichloropropane	7.27	63	557341	8.272	ppbv #	25
53) Toluene	9.92	91	189966	0.983	ppbv	99
58) Ethyl Benzene	12.83	91	39803	0.151	ppbv	92
59) m/p-Xylene	13.09	91	358119	1.491	ppbv	100
60) o-Xylene	13.82	91	80512	0.325	ppbv	98

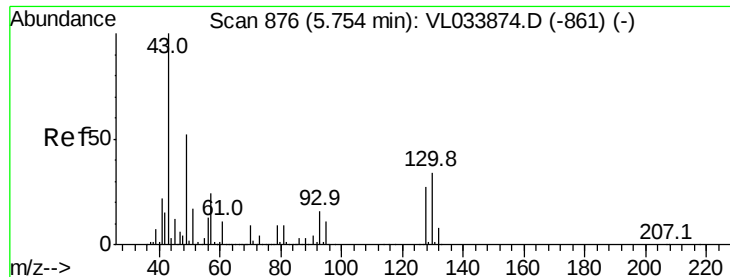
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jun 07 08:53:27 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.74 min Scan# 872

Delta R.T. -0.01 min

Lab File: VL033941.D

Acq: 24 Jun 2019 17:57

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-D-2DL

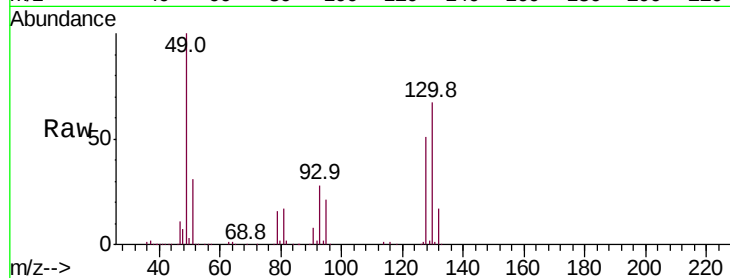
Tot Ion: 49 Resp: 938130

Ion Ratio Lower Upper

49 100

128 52.3 25.5 76.5

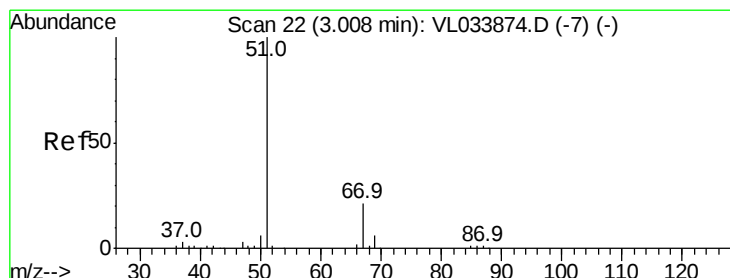
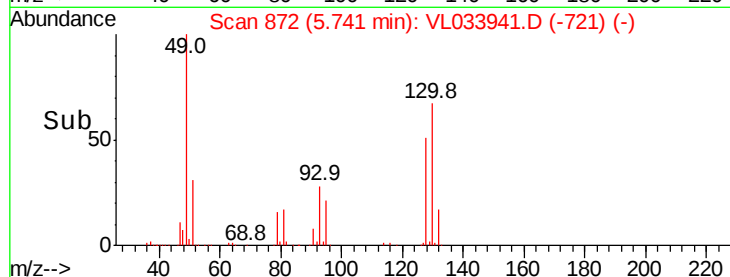
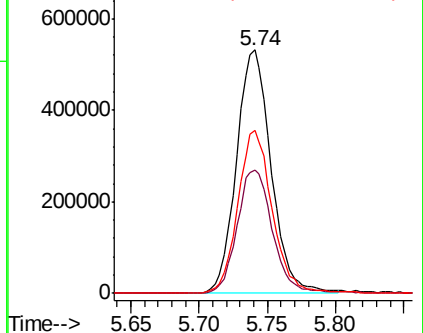
130 66.8 32.5 97.4



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: 0.239 ppbv

RT: 3.01 min Scan# 22

Delta R.T. -0.00 min

Lab File: VL033941.D

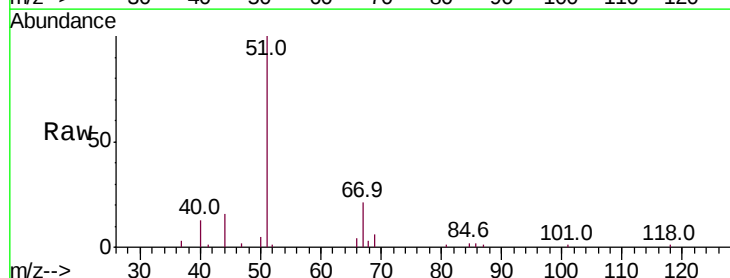
Acq: 24 Jun 2019 17:57

Tgt Ion: 51 Resp: 26368

Ion Ratio Lower Upper

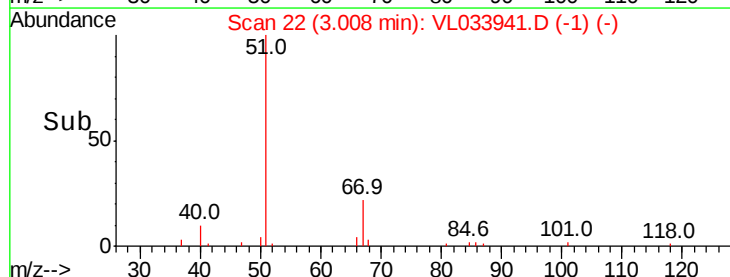
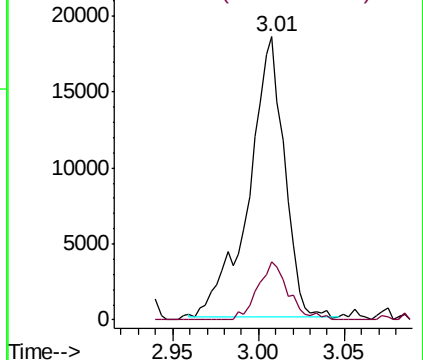
51 100

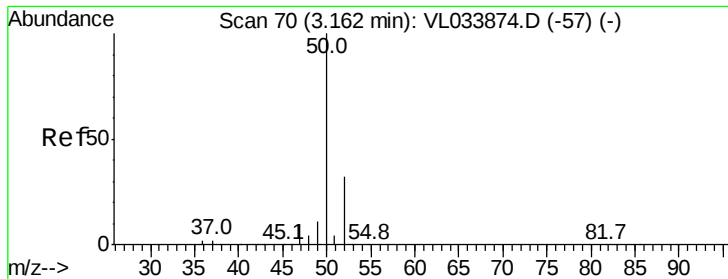
67 18.1 16.4 24.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.062 ppbv

RT: 3.16 min Scan# 70

Delta R.T. -0.00 min

Lab File: VL033941.D

Acq: 24 Jun 2019 17:57

Instrument :

MSVOA_L

ClientSampleId :

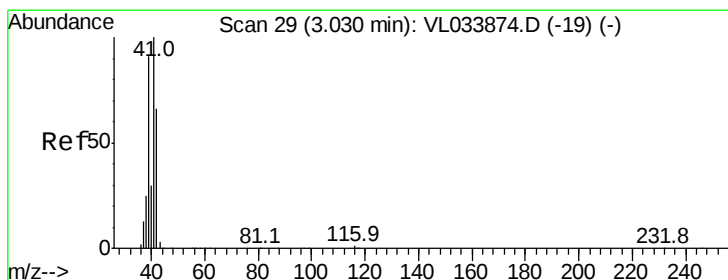
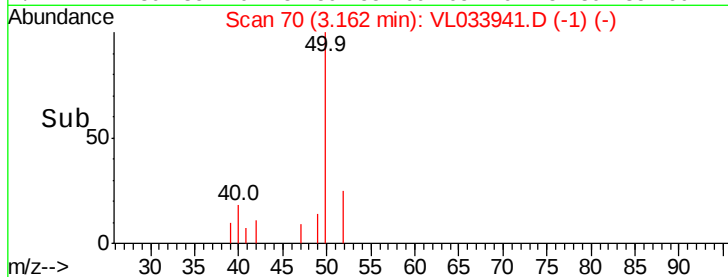
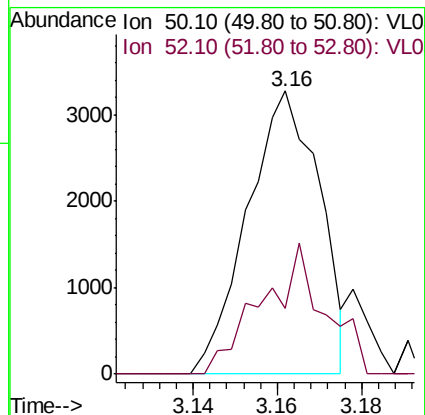
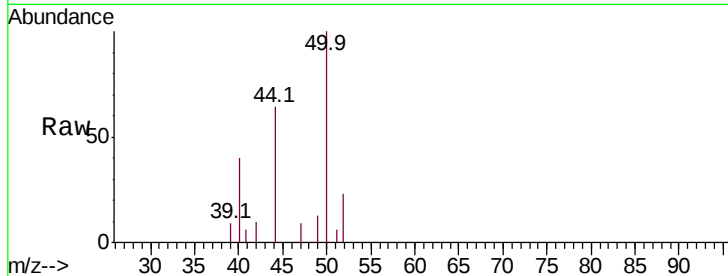
TZC-SSDS-AREA-D-2DL

Tot Ion: 50 Resp: 3878

Ion Ratio Lower Upper

50 100

52 23.1 25.4 38.0#



#9

Propene

Concen: 0.094 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.01 min

Lab File: VL033941.D

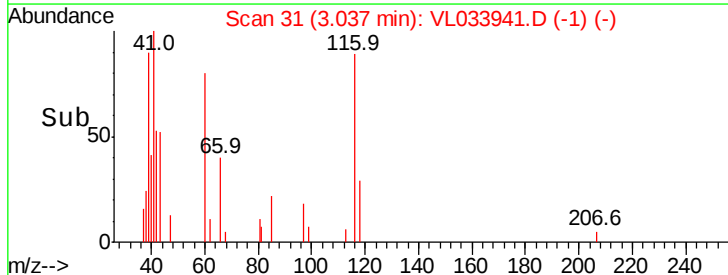
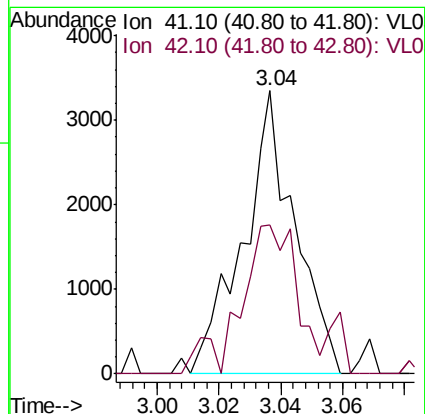
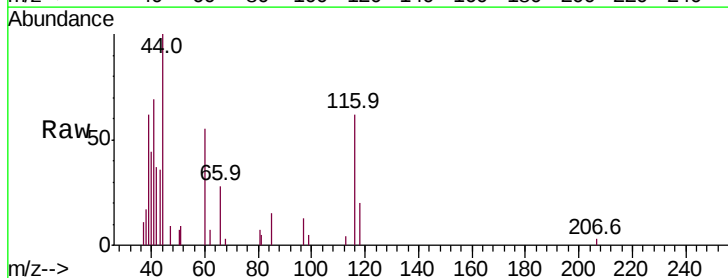
Acq: 24 Jun 2019 17:57

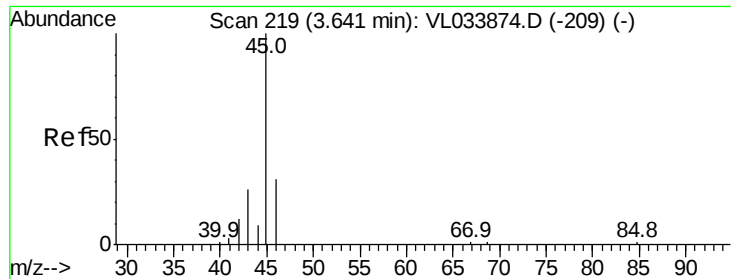
Tgt Ion: 41 Resp: 3902

Ion Ratio Lower Upper

41 100

42 63.9 56.3 84.5





#13

Ethanol

Concen: 0.911 ppbv

RT: 3.65 min Scan# 222

Delta R.T. 0.01 min

Lab File: VL033941.D

Acq: 24 Jun 2019 17:57

Instrument :

MSVOA_L

ClientSampleId :

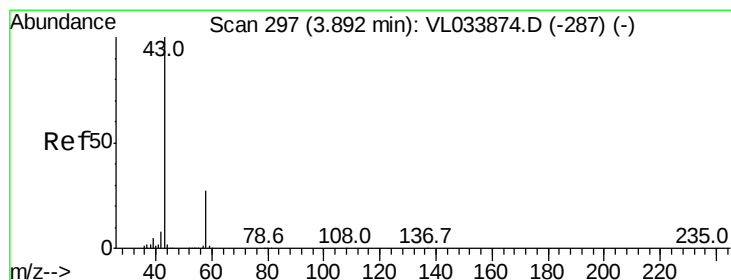
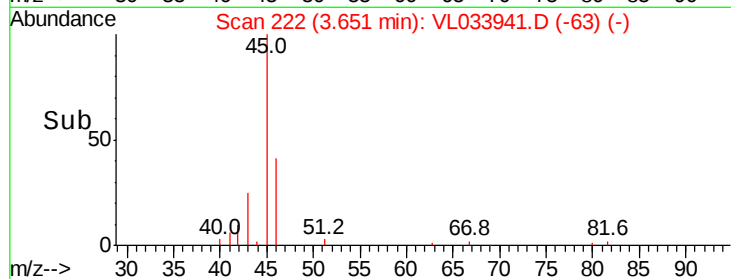
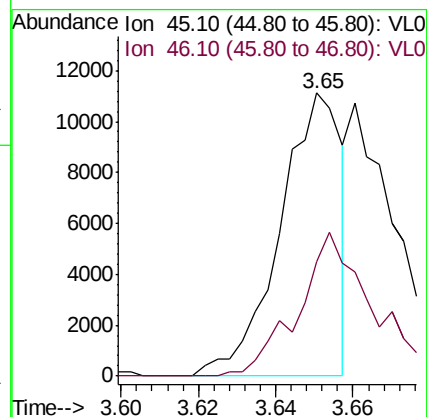
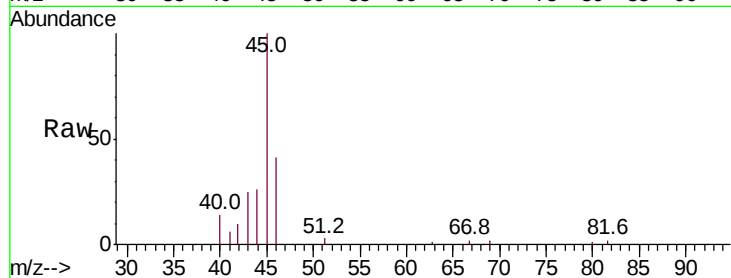
TZC-SSDS-AREA-D-2DL

Tot Ion: 45 Resp: 12252

Ion Ratio Lower Upper

45 100

46 68.6 15.3 61.1#



#15

Acetone

Concen: 0.753 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.01 min

Lab File: VL033941.D

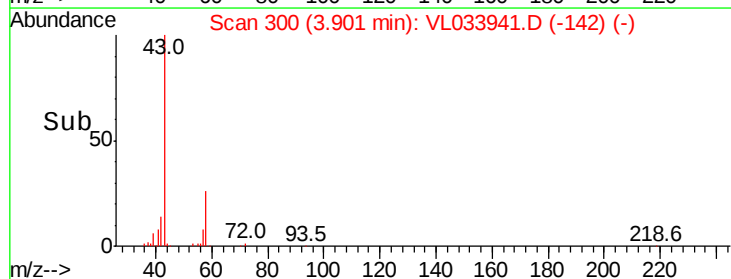
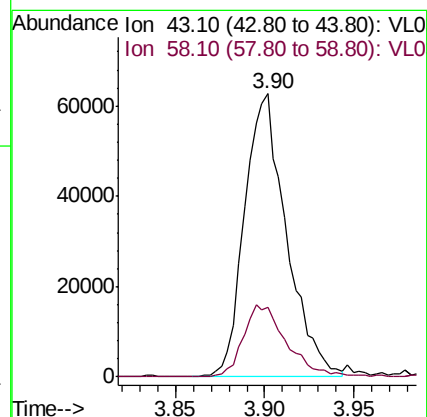
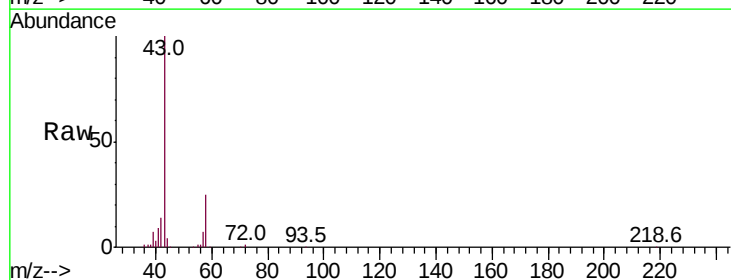
Acq: 24 Jun 2019 17:57

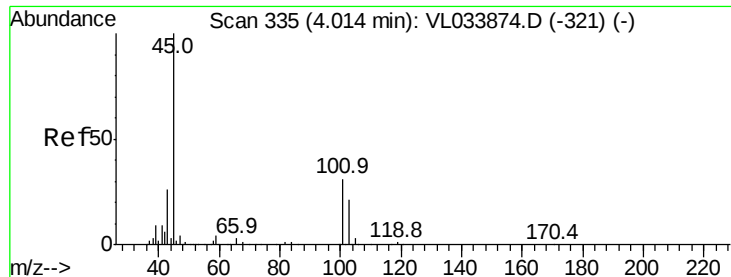
Tgt Ion: 43 Resp: 103024

Ion Ratio Lower Upper

43 100

58 26.2 21.3 31.9





#19

Isopropyl Alcohol

Concen: 0.094 ppbv

RT: 4.03 min Scan# 340

Delta R.T. 0.02 min

Lab File: VL033941.D

Acq: 24 Jun 2019 17:57

Instrument :

MSVOA_L

ClientSampleId :

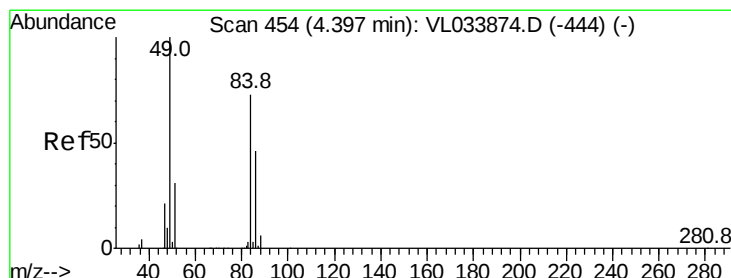
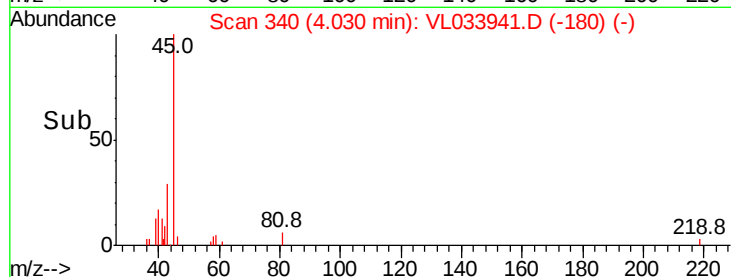
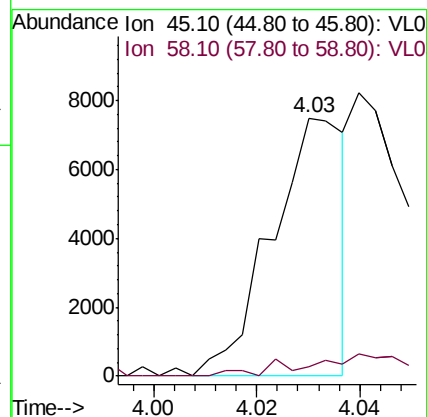
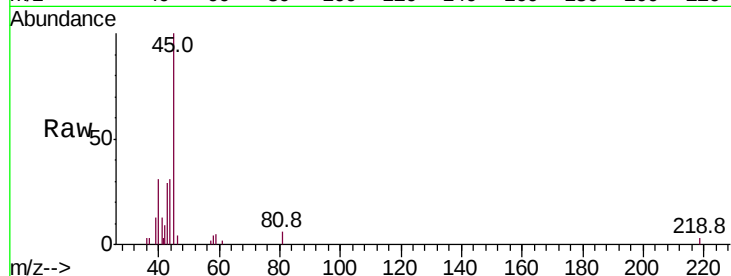
TZC-SSDS-AREA-D-2DL

Tot Ion: 45 Resp: 7338

Ion Ratio Lower Upper

45 100

58 0.0 1.8 2.6#



#20

Methylene Chloride

Concen: 0.330 ppbv

RT: 4.39 min Scan# 452

Delta R.T. -0.01 min

Lab File: VL033941.D

Acq: 24 Jun 2019 17:57

Tgt Ion: 84 Resp: 17612

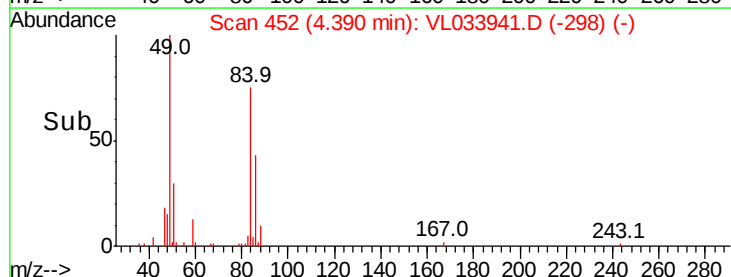
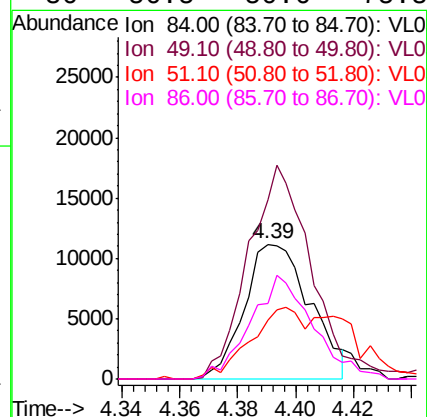
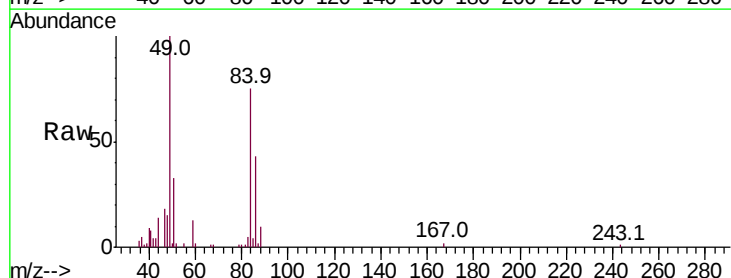
Ion Ratio Lower Upper

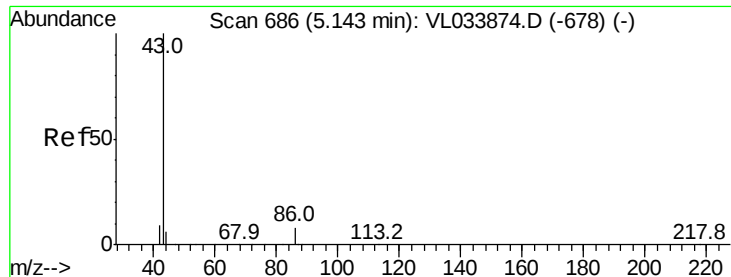
84 100

49 132.7 110.0 165.0

51 43.8 34.6 51.8

86 56.5 50.6 75.8





#23

Vinyl Acetate

Concen: 0.057 ppbv

RT: 5.13 min Scan# 683

Delta R.T. -0.01 min

Lab File: VL033941.D

Acq: 24 Jun 2019 17:57

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-D-2DL

Tot Ion: 43 Resp: 9106

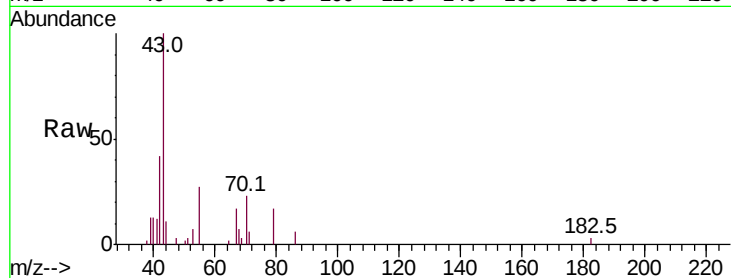
Ion Ratio Lower Upper

43 100

86 5.5 5.8 8.8#

42 37.2 7.8 11.8#

44 0.0 4.2 6.4#

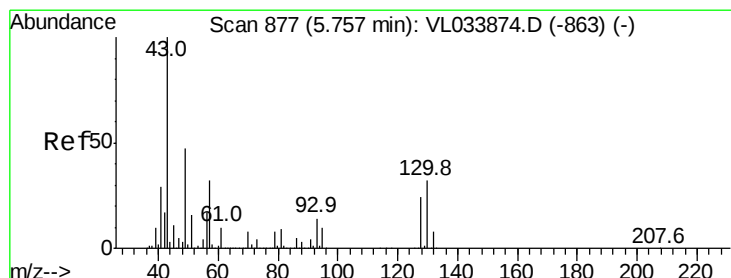
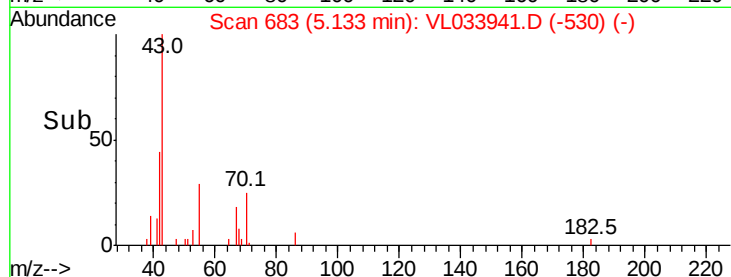
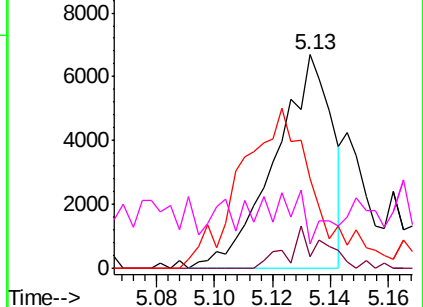


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.069 ppbv

RT: 5.76 min Scan# 878

Delta R.T. 0.00 min

Lab File: VL033941.D

Acq: 24 Jun 2019 17:57

Tgt Ion: 43 Resp: 14339

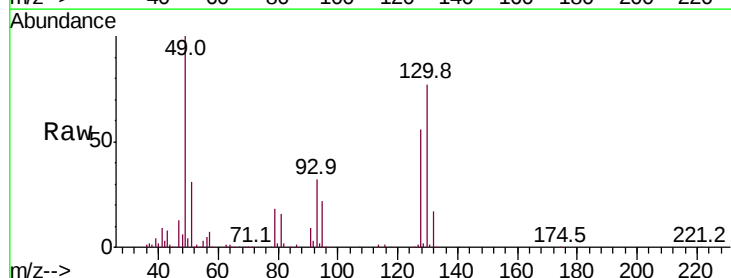
Ion Ratio Lower Upper

43 100

45 2.8 7.9 11.9#

61 0.0 7.8 11.6#

70 0.9 5.8 8.6#

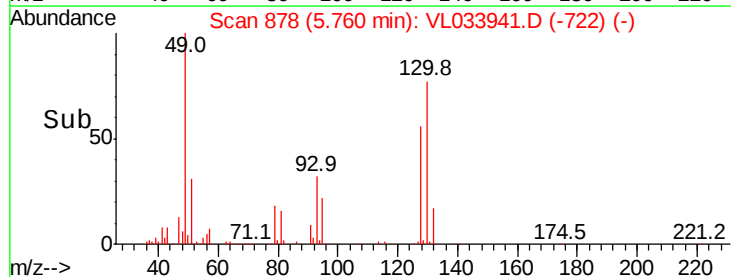
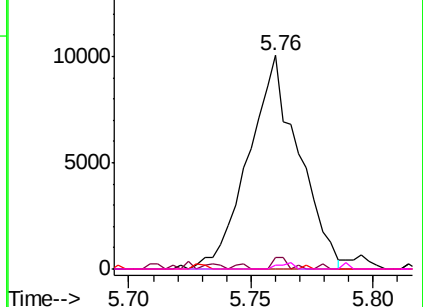


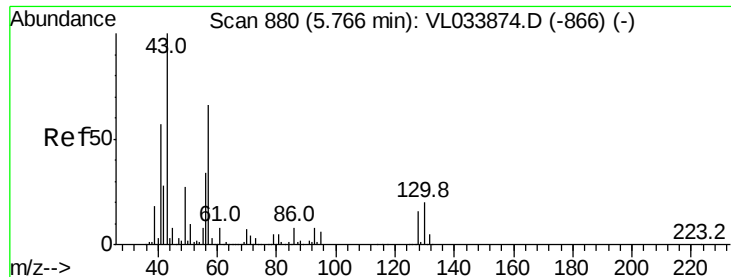
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

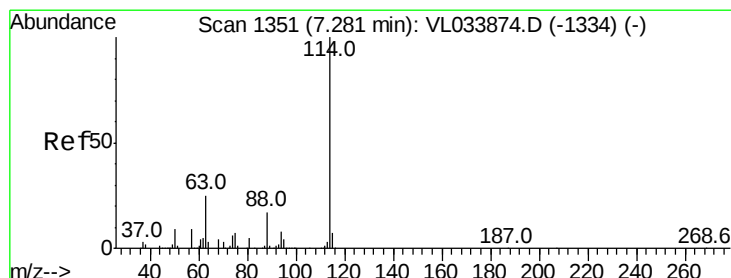
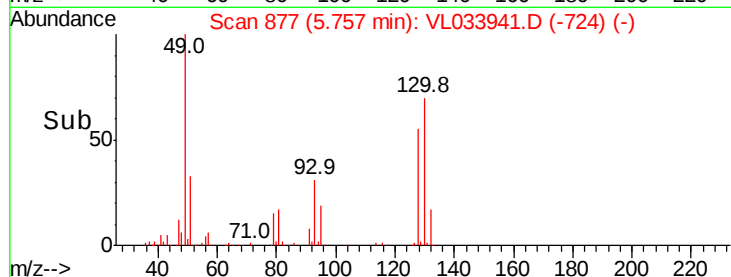
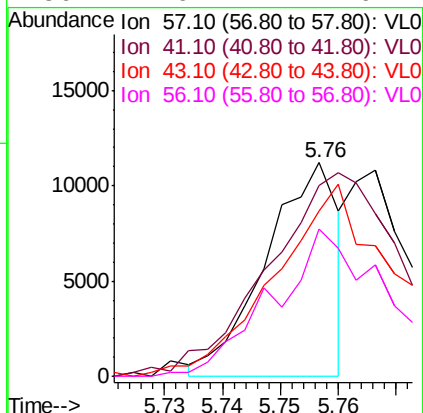
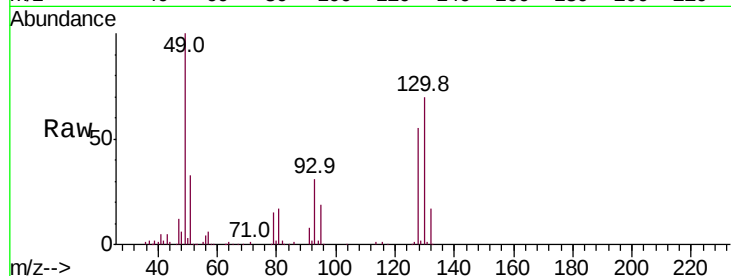




#26
Hexane
Concen: 0.103 ppbv
RT: 5.76 min Scan# 877
Delta R.T. -0.01 min
Lab File: VL033941.D
Acq: 24 Jun 2019 17:57

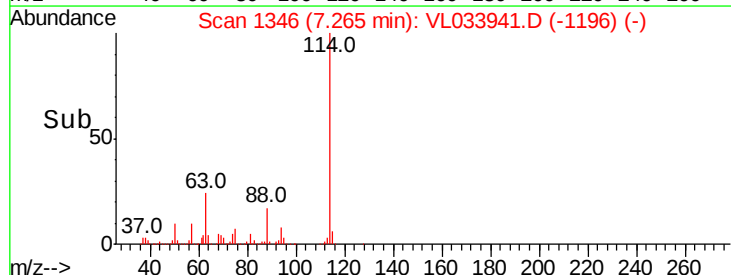
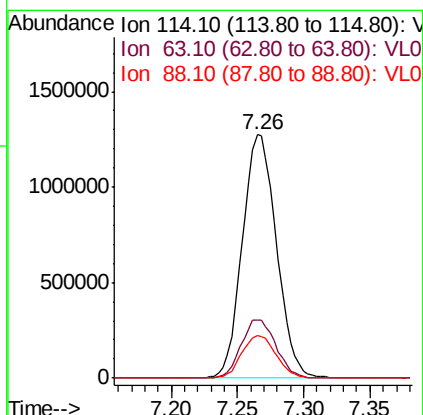
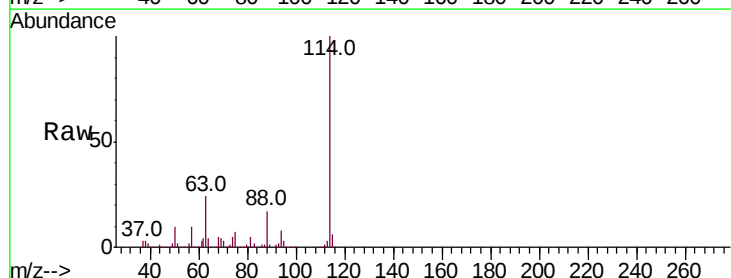
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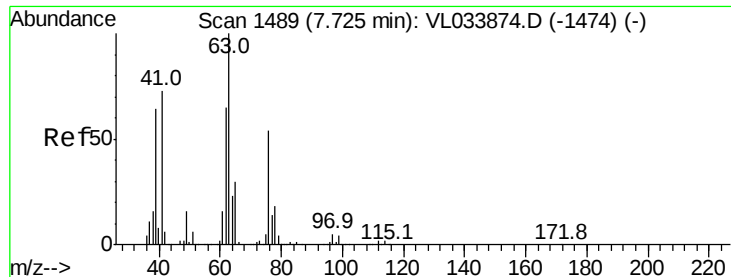
Tot Ion: 57 Resp: 9754
Ion Ratio Lower Upper
57 100
41 180.0 71.4 107.2#
43 152.3 183.7 275.5#
56 114.6 42.7 64.1#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.26 min Scan# 1346
Delta R.T. -0.02 min
Lab File: VL033941.D
Acq: 24 Jun 2019 17:57

Tgt Ion: 114 Resp: 2285411
Ion Ratio Lower Upper
114 100
63 24.5 21.1 31.7
88 17.6 14.2 21.4





#39

1,2-Dichloropropane

Concen: 8.272 ppbv

RT: 7.27 min Scan# 1347

Delta R.T. -0.46 min

Lab File: VL033941.D

Acq: 24 Jun 2019 17:57

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-D-2DL

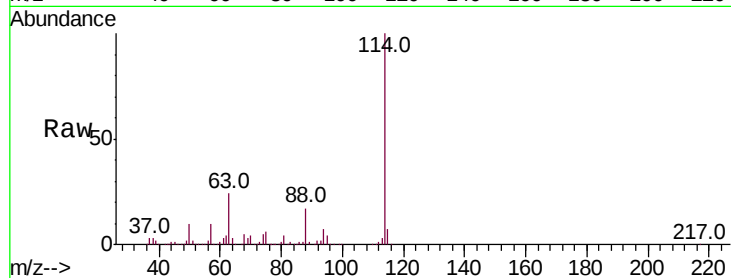
Tot Ion: 63 Resp: 557341

Ion Ratio Lower Upper

63 100

41 0.0 58.7 88.1#

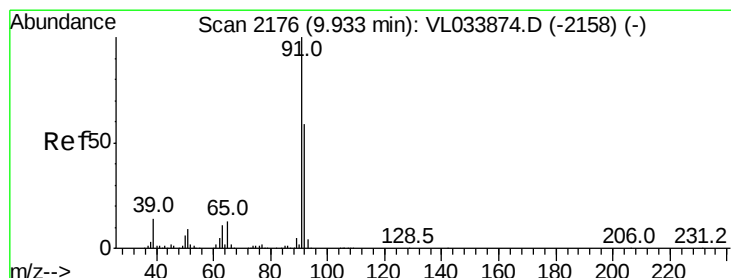
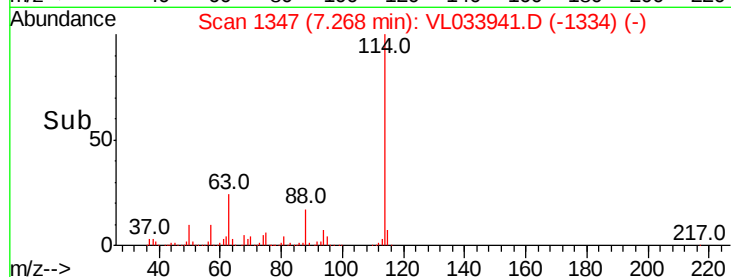
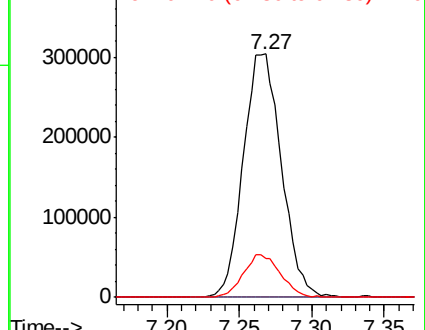
62 16.1 51.9 77.9#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#53

Toluene

Concen: 0.983 ppbv

RT: 9.92 min Scan# 2171

Delta R.T. -0.02 min

Lab File: VL033941.D

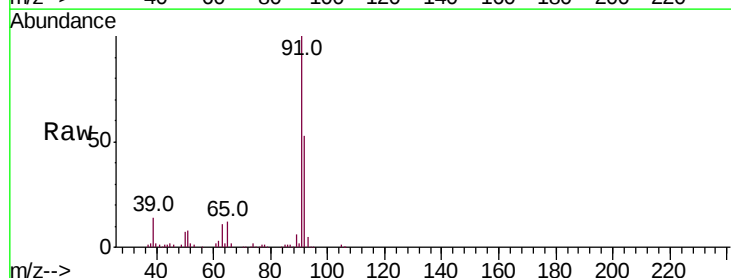
Acq: 24 Jun 2019 17:57

Tgt Ion: 91 Resp: 189966

Ion Ratio Lower Upper

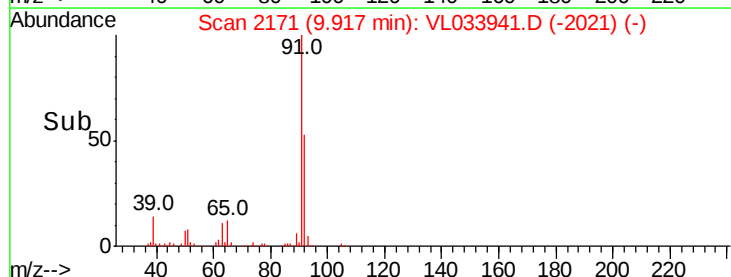
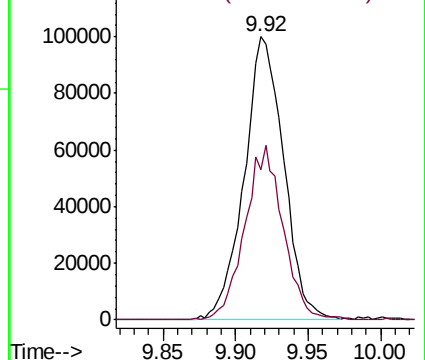
91 100

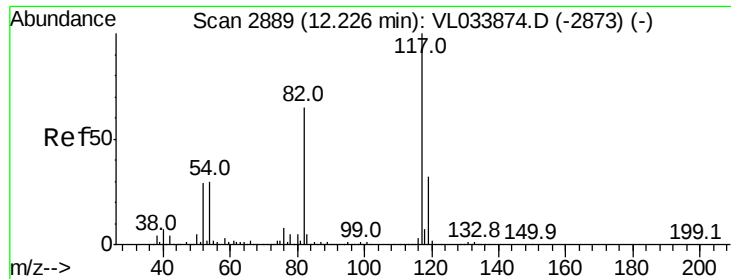
92 59.6 47.0 70.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

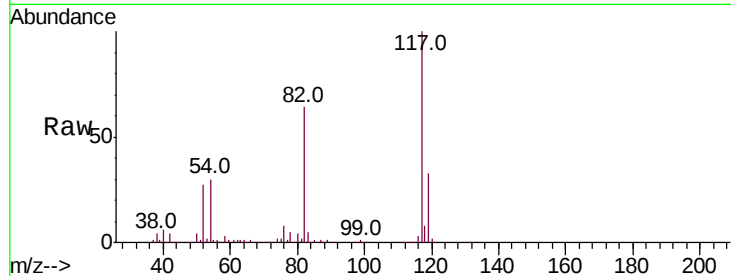




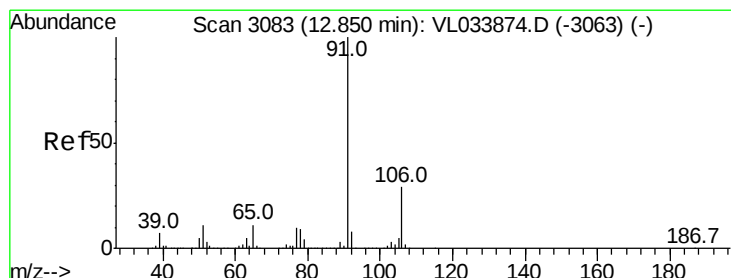
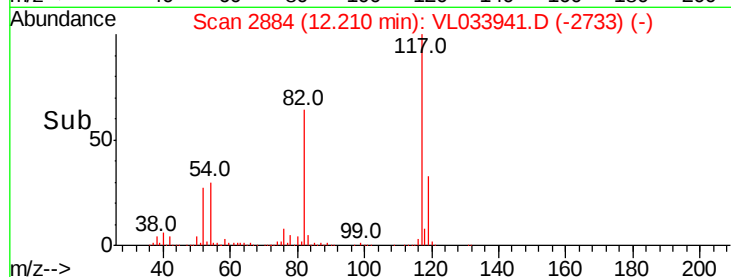
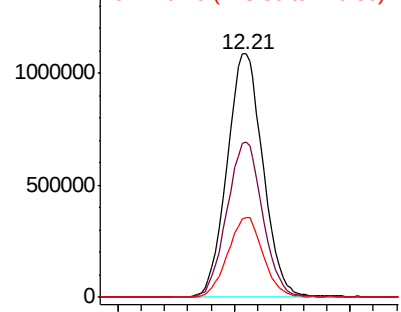
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.21 min Scan# 2884
Delta R.T. -0.02 min
Lab File: VL033941.D
Acq: 24 Jun 2019 17:57

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

Tot Ion:117 Resp: 2342080
Ion Ratio Lower Upper
117 100
82 64.1 50.2 75.2
119 32.4 24.8 37.2

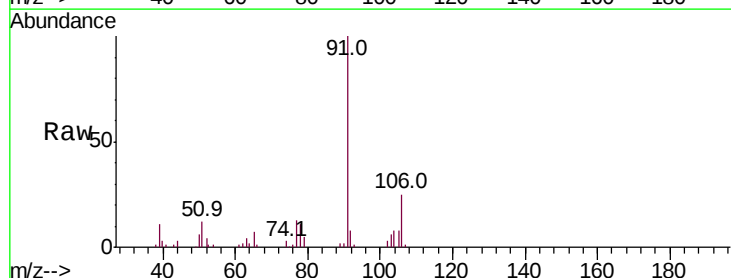


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

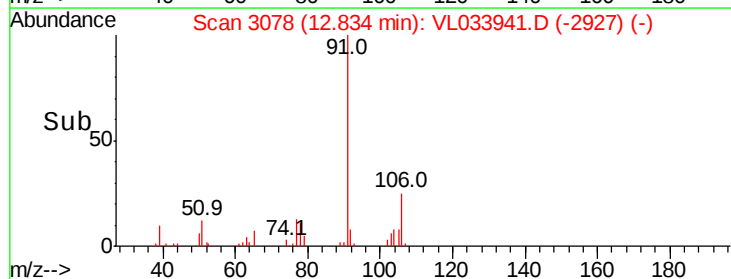
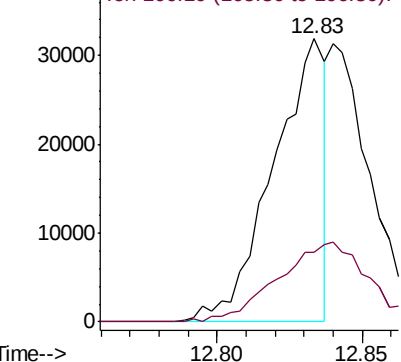


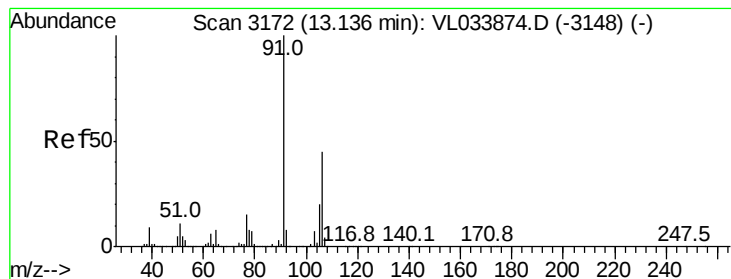
#58
Ethyl Benzene
Concen: 0.151 ppbv
RT: 12.83 min Scan# 3078
Delta R.T. -0.02 min
Lab File: VL033941.D
Acq: 24 Jun 2019 17:57

Tgt Ion: 91 Resp: 39803
Ion Ratio Lower Upper
91 100
106 24.5 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: 1.491 ppbv

RT: 13.09 min Scan# 3159

Delta R.T. -0.04 min

Lab File: VL033941.D

Acq: 24 Jun 2019 17:57

Instrument :

MSVOA_L

ClientSampleId :

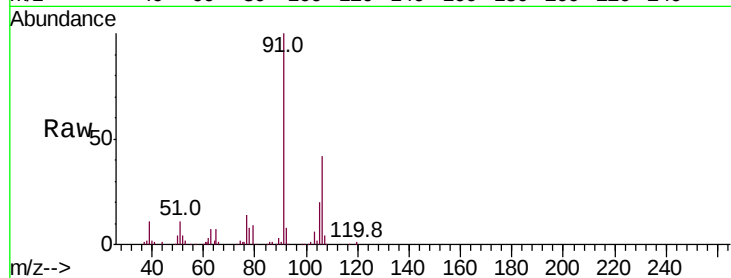
TZC-SSDS-AREA-D-2DL

Tot Ion: 91 Resp: 358119

Ion Ratio Lower Upper

91 100

106 45.1 35.8 53.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

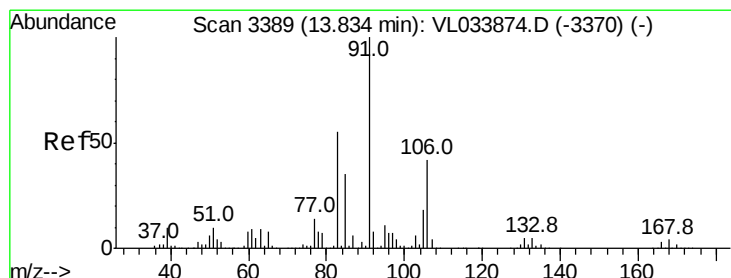
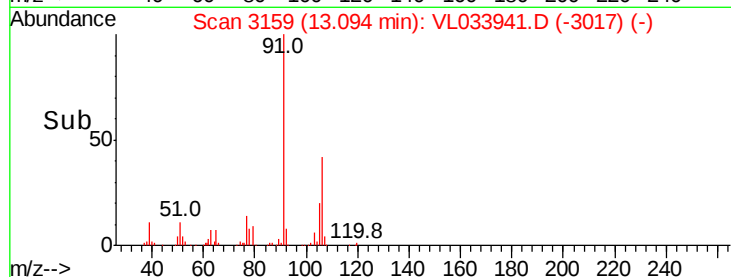
13.09

100000

50000

0

Time--> 13.00 13.10 13.20



#60

o-Xylene

Concen: 0.325 ppbv

RT: 13.82 min Scan# 3385

Delta R.T. -0.01 min

Lab File: VL033941.D

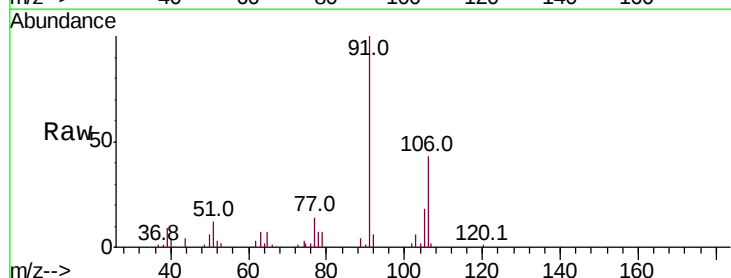
Acq: 24 Jun 2019 17:57

Tgt Ion: 91 Resp: 80512

Ion Ratio Lower Upper

91 100

106 41.9 21.7 65.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

13.82

40000

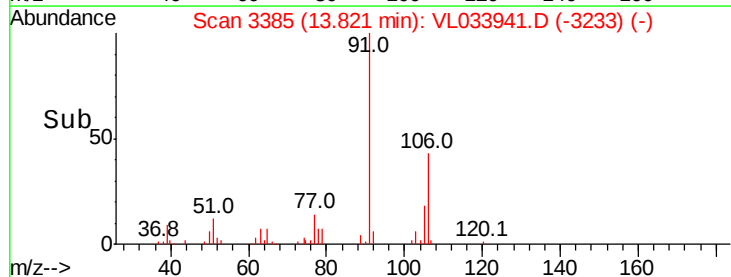
30000

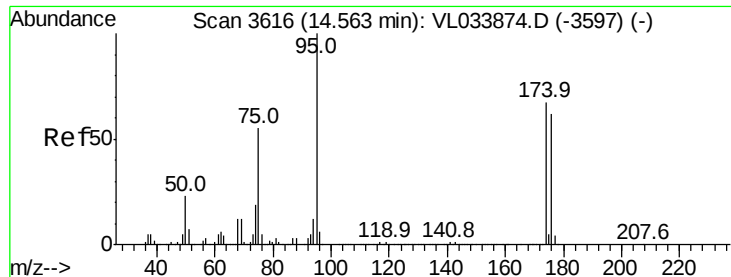
20000

10000

0

Time--> 13.75 13.80 13.85 13.90





#68

1-Bromo-4-Fluorobenzene

Concen: 9.869 ppbv

RT: 14.55 min Scan# 3611

Delta R.T. -0.02 min

Lab File: VL033941.D

Acq: 24 Jun 2019 17:57

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-D-2DL

Tot Ion: 95 Resp: 1898517

Ion Ratio Lower Upper

95 100

174 68.9 54.0 81.0

175 4.9 3.8 5.8

