

Data File : VL032813.D
Acq On : 27 Nov 2018 18:53
Operator : SY/AP
Sample : J6046-05DUP
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
EP2-OA-01DUP

Quant Time: Nov 28 03:15:12 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1342933	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	3426661	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.26	117	3055557	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2323733	10.17	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%

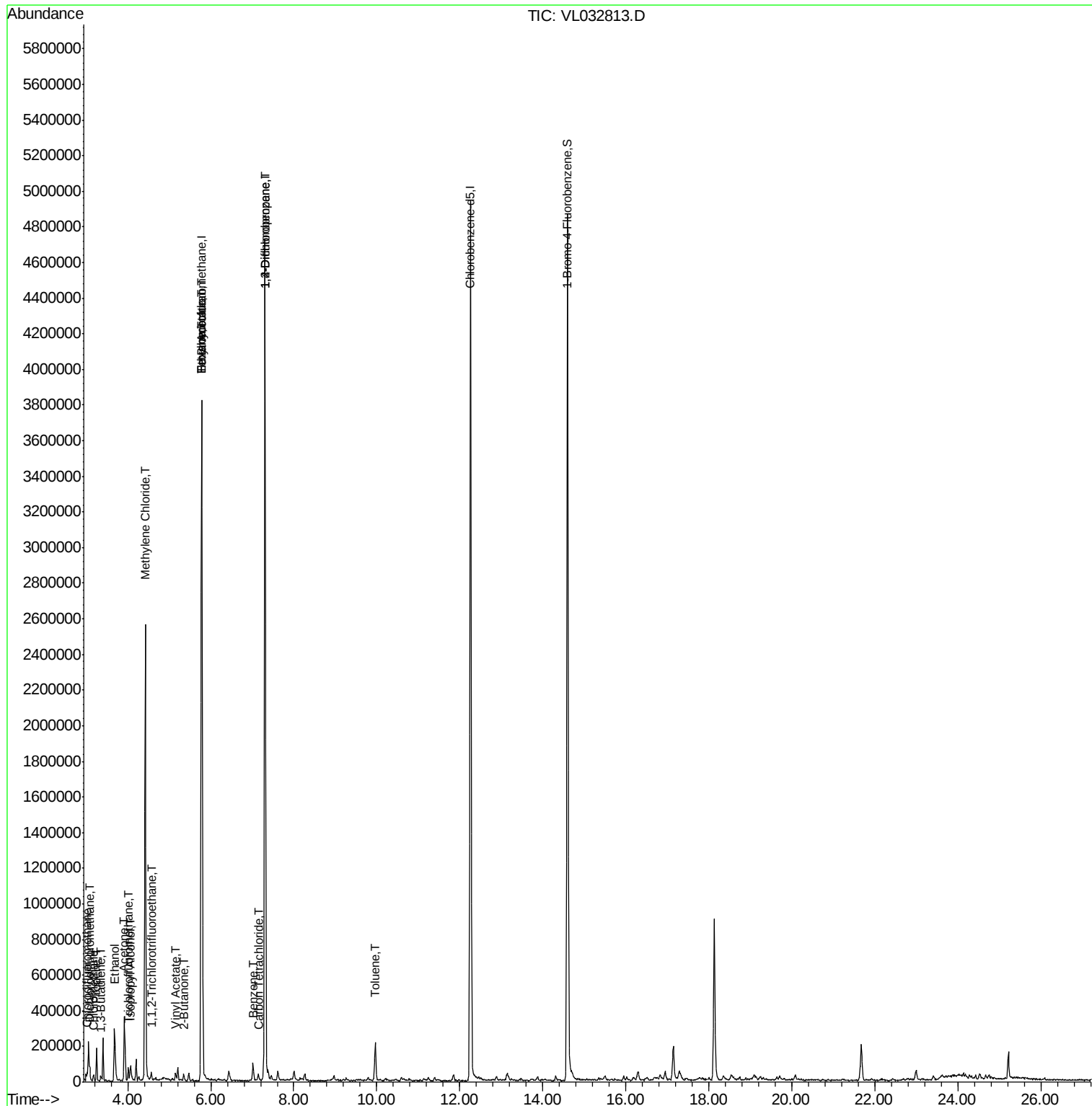
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.08	85	50489	0.262	ppbv	98
3) Chlorodifluoromethane	3.02	51	64663	0.607	ppbv #	83
4) Chloromethane	3.18	50	14206	0.241	ppbv	93
9) Propene	3.25	41	42781	1.004	ppbv	92
11) Trichlorofluoromethane	4.01	101	28599	0.157	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.56	101	8574	0.058	ppbv #	14
13) Ethanol	3.68	45	361860	25.930	ppbv	98
15) Acetone	3.91	43	374756	3.056	ppbv	97
16) 1,3-Butadiene	3.36	39	2540	0.053	ppbv #	30
19) Isopropyl Alcohol	4.07	45	96125	1.177	ppbv #	95
20) Methylene Chloride	4.42	84	892440	14.056	ppbv	99
23) Vinyl Acetate	5.16	43	14001	0.063	ppbv #	13
25) Ethyl Acetate	5.79	43	564156	1.974	ppbv #	79
26) Hexane	5.79	57	770629	6.057	ppbv #	44
34) 2-Butanone	5.35	43	38348	0.216	ppbv	98
35) Carbon Tetrachloride	7.15	117	18660	0.068	ppbv	96
36) Benzene	7.02	78	69135	0.253	ppbv	97
39) 1,2-Dichloropropane	7.30	63	851188	8.187	ppbv #	23
41) Tetrahydrofuran	5.79	42	289416	2.839	ppbv #	49
53) Toluene	9.97	91	143756	0.505	ppbv	99

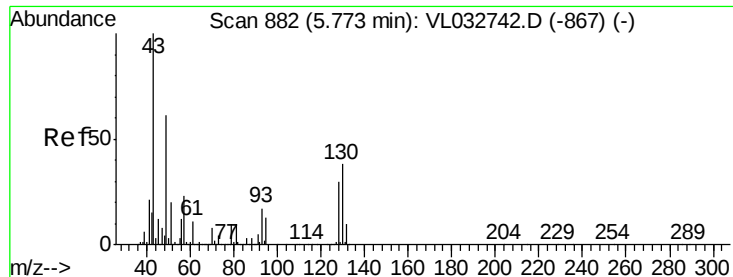
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 882

Delta R.T. -0.00 min

Lab File: VL032813.D

Acq: 27 Nov 2018 18:53

Instrument :

MSVOA_L

ClientSampleId :

EP2-OA-01DUP

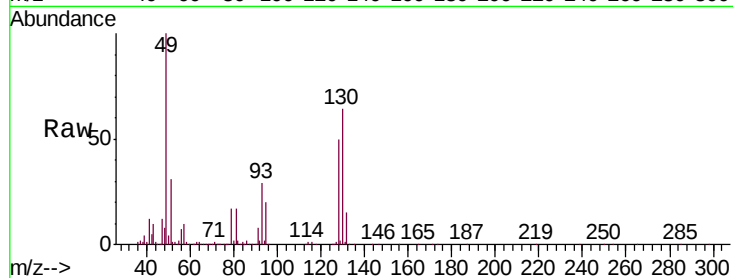
Tgt Ion: 49 Resp: 1342933

Ion Ratio Lower Upper

49 100

128 52.1 24.9 74.6

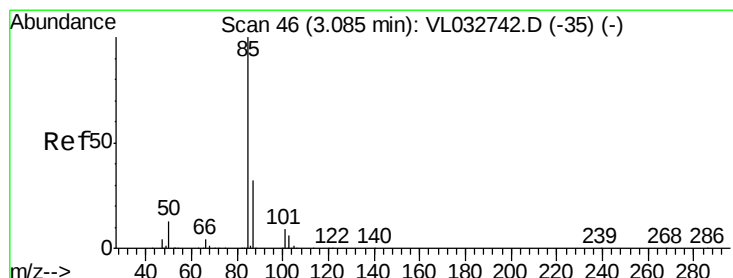
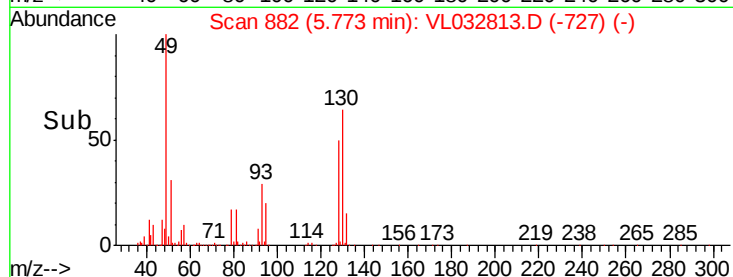
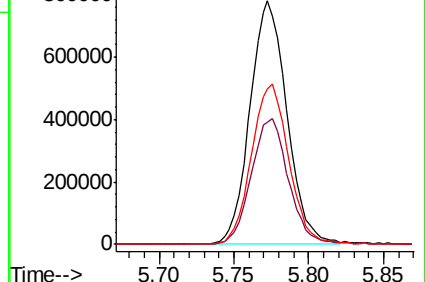
130 66.8 31.4 94.2



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



#2

Dichlorodifluoromethane

Concen: 0.262 ppbv

RT: 3.08 min Scan# 46

Delta R.T. -0.00 min

Lab File: VL032813.D

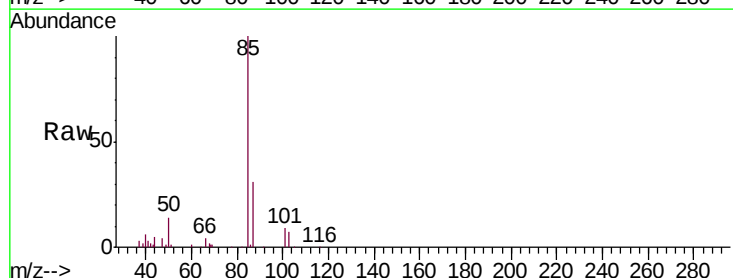
Acq: 27 Nov 2018 18:53

Tgt Ion: 85 Resp: 50489

Ion Ratio Lower Upper

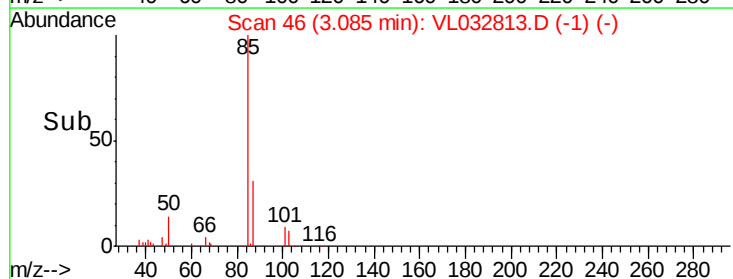
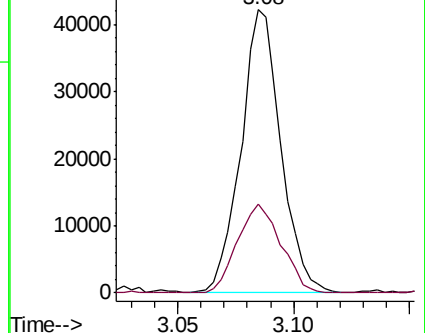
85 100

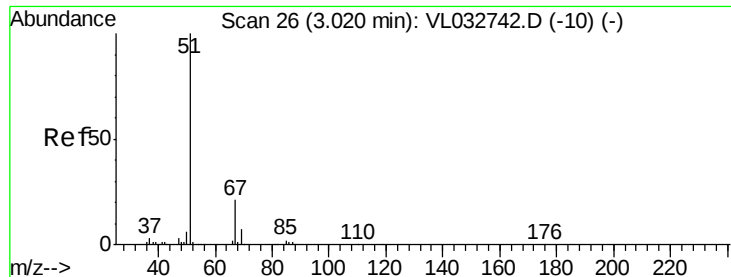
87 31.2 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.607 ppbv

RT: 3.02 min Scan# 27

Delta R.T. 0.00 min

Lab File: VL032813.D

Acq: 27 Nov 2018 18:53

Instrument :

MSVOA_L

ClientSampleId :

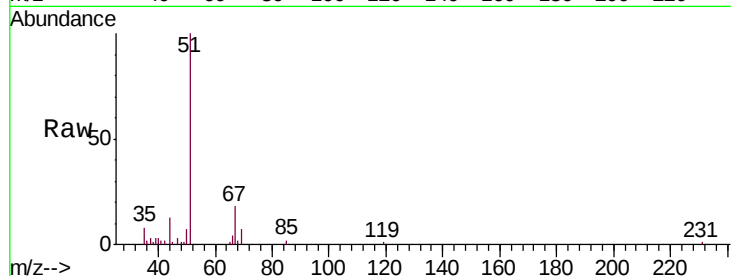
EP2-OA-01DUP

Tgt Ion: 51 Resp: 64663

Ion Ratio Lower Upper

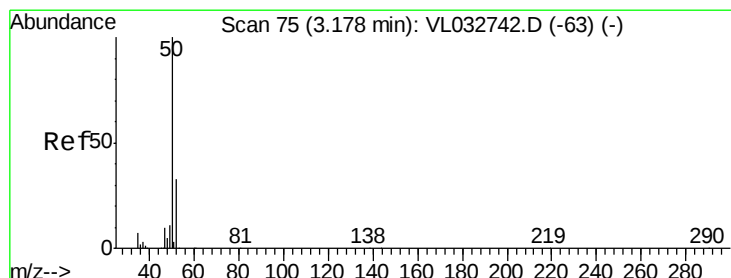
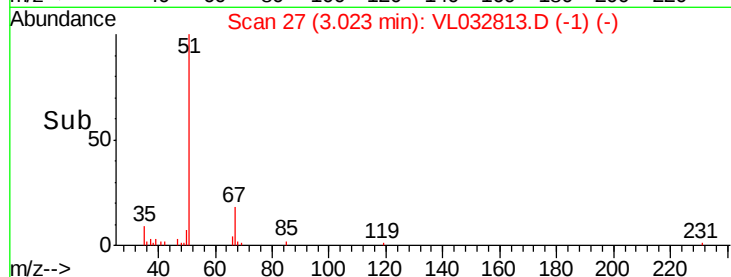
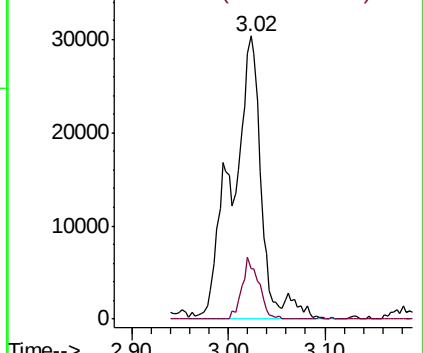
51 100

67 12.3 16.1 24.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.241 ppbv

RT: 3.18 min Scan# 75

Delta R.T. -0.00 min

Lab File: VL032813.D

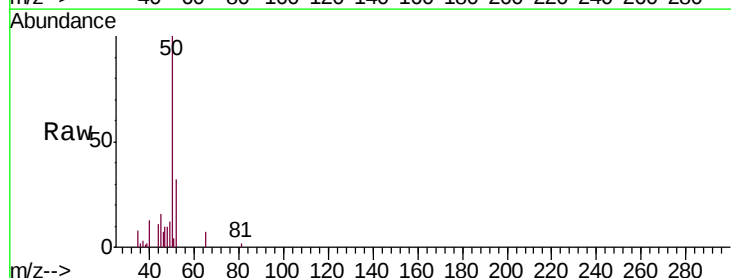
Acq: 27 Nov 2018 18:53

Tgt Ion: 50 Resp: 14206

Ion Ratio Lower Upper

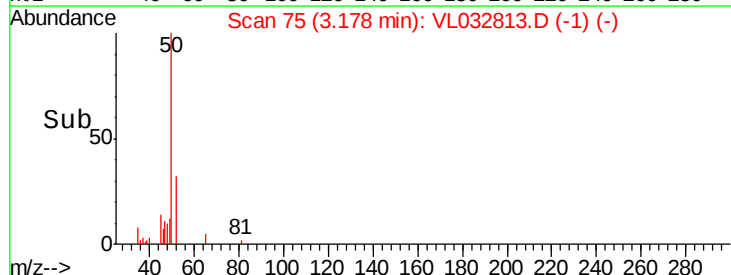
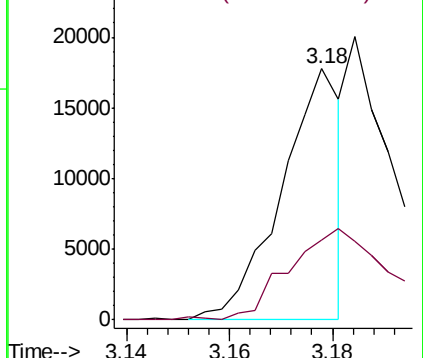
50 100

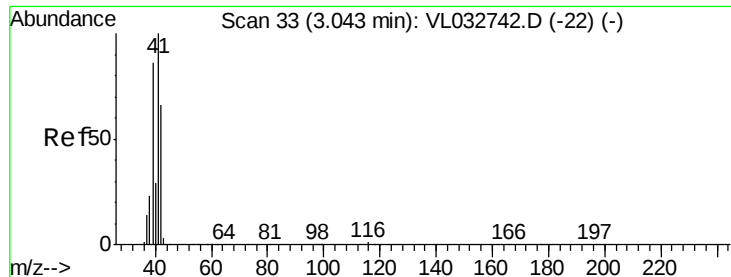
52 29.3 26.6 40.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.004 ppbv

RT: 3.25 min Scan# 97

Delta R.T. 0.21 min

Lab File: VL032813.D

Acq: 27 Nov 2018 18:53

Instrument :

MSVOA_L

ClientSampleId :

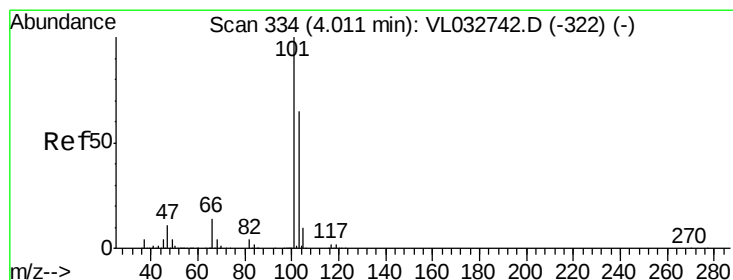
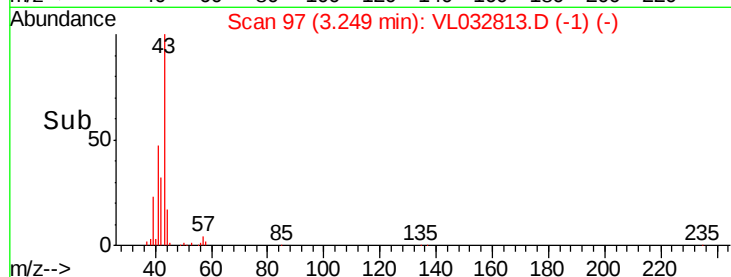
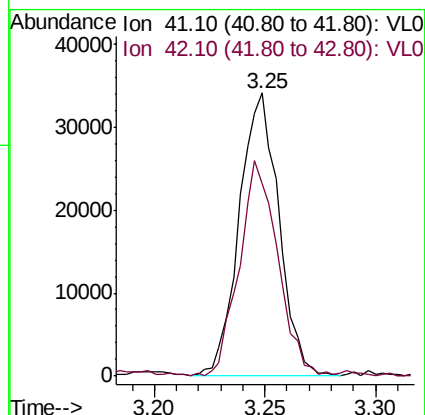
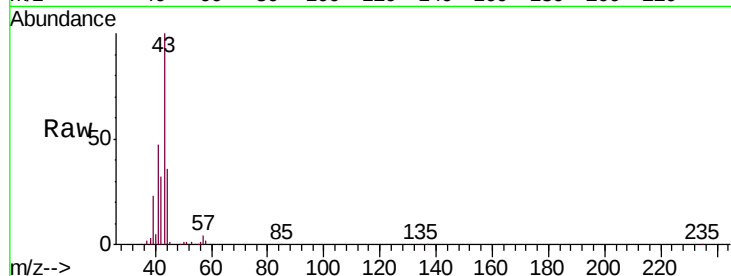
EP2-OA-01DUP

Tgt Ion: 41 Resp: 42781

Ion Ratio Lower Upper

41 100

42 75.0 55.0 82.6



#11

Trichlorofluoromethane

Concen: 0.157 ppbv

RT: 4.01 min Scan# 335

Delta R.T. 0.00 min

Lab File: VL032813.D

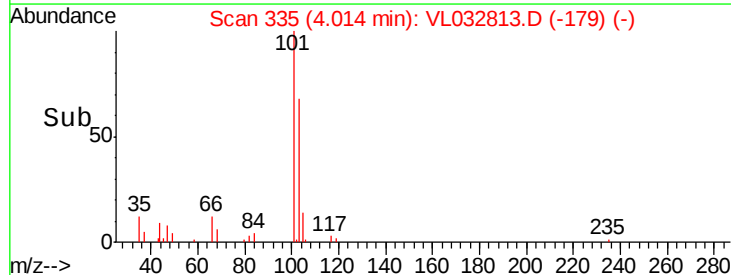
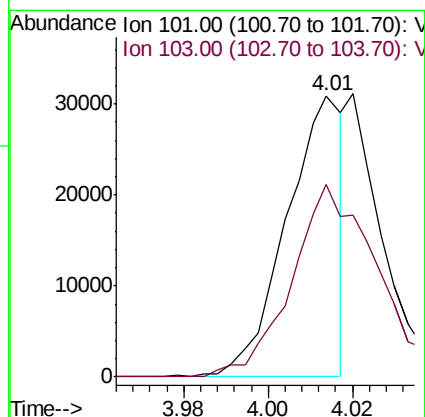
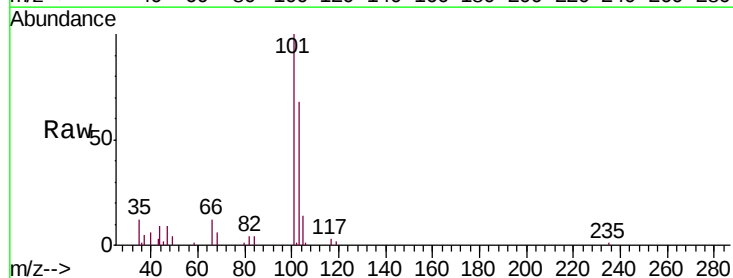
Acq: 27 Nov 2018 18:53

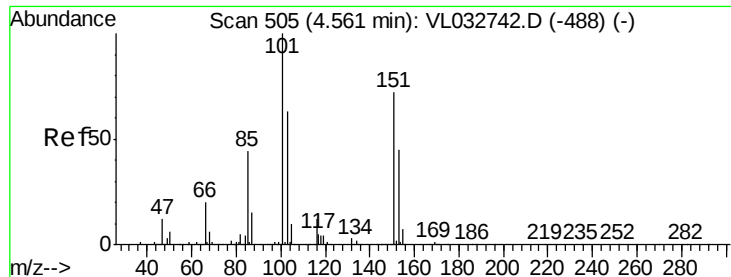
Tgt Ion: 101 Resp: 28599

Ion Ratio Lower Upper

101 100

103 68.3 51.6 77.4





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.058 ppbv

RT: 4.56 min Scan# 504

Delta R.T. -0.00 min

Lab File: VL032813.D

Acq: 27 Nov 2018 18:53

Instrument :

MSVOA_L

ClientSampleId :

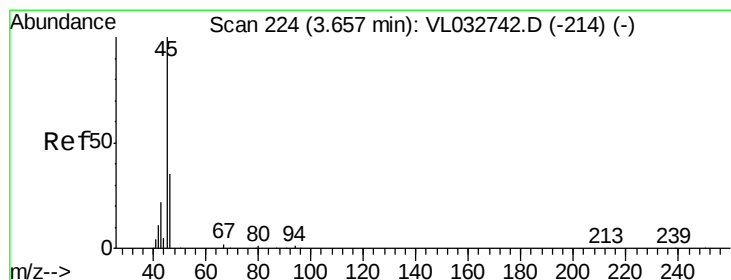
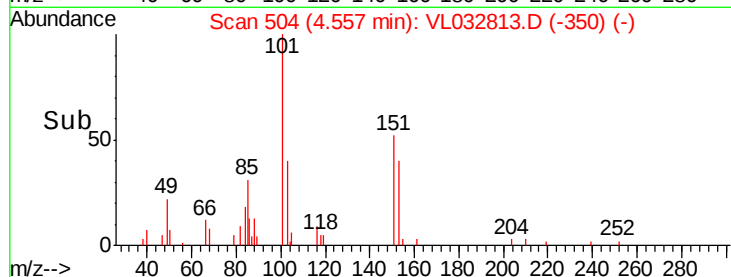
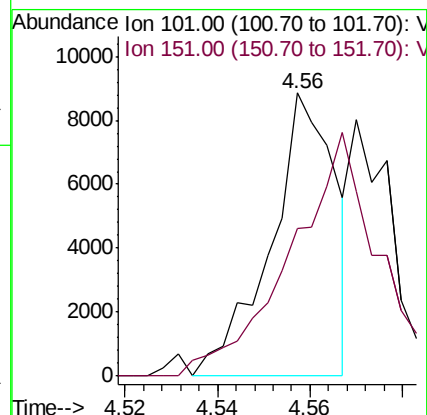
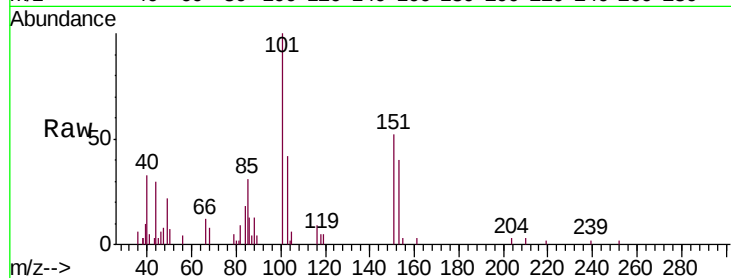
EP2-OA-01DUP

Tgt Ion: 101 Resp: 8574

Ion Ratio Lower Upper

101 100

151 0.0 56.7 85.1#



#13

Ethanol

Concen: 25.930 ppbv

RT: 3.68 min Scan# 232

Delta R.T. 0.03 min

Lab File: VL032813.D

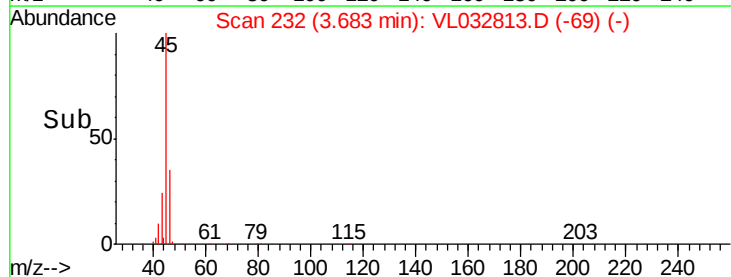
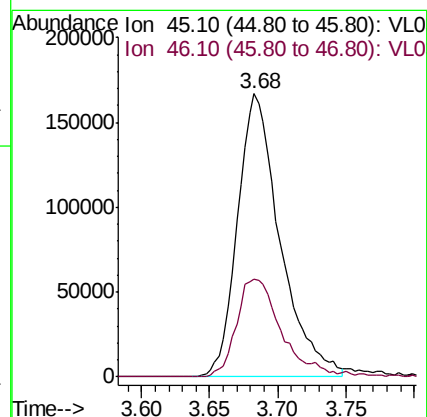
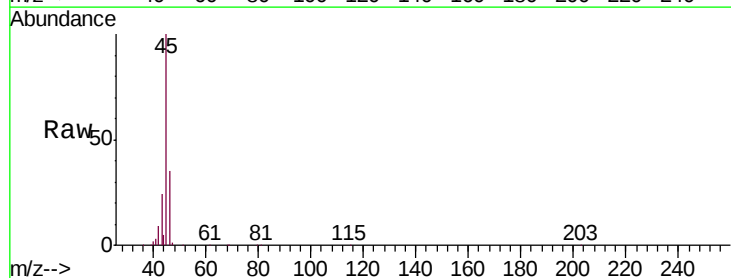
Acq: 27 Nov 2018 18:53

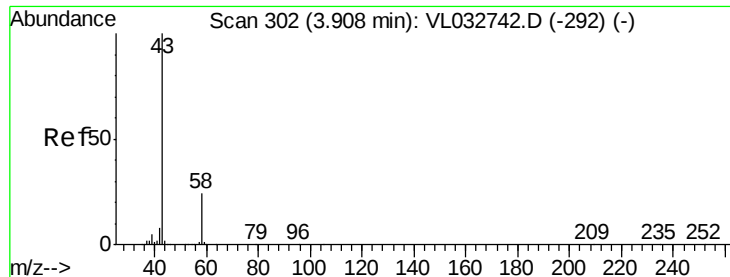
Tgt Ion: 45 Resp: 361860

Ion Ratio Lower Upper

45 100

46 37.5 14.5 57.9





#15

Acetone

Concen: 3.056 ppbv

RT: 3.91 min Scan# 304

Delta R.T. 0.01 min

Lab File: VL032813.D

Acq: 27 Nov 2018 18:53

Instrument :

MSVOA_L

ClientSampleId :

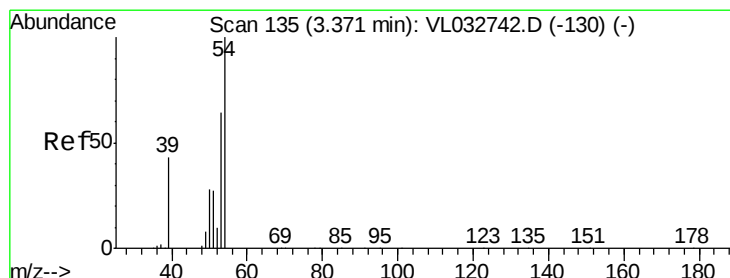
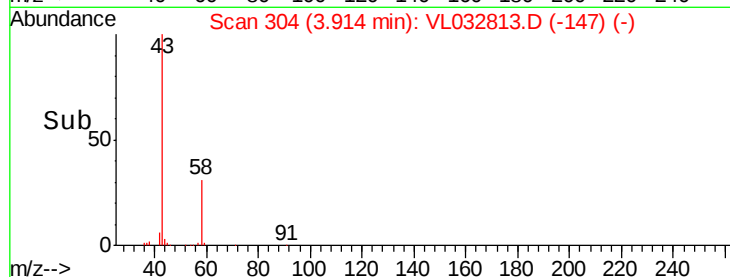
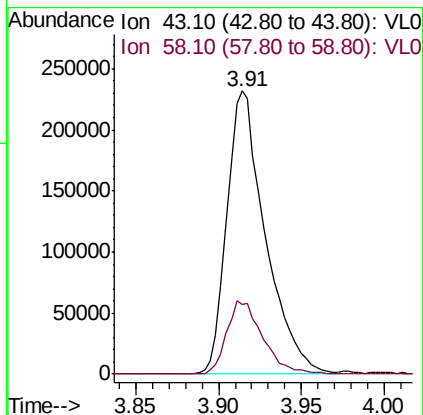
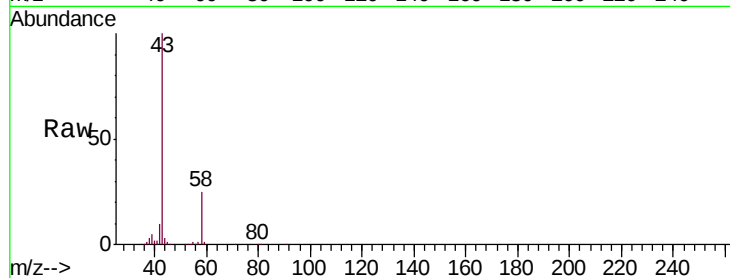
EP2-OA-01DUP

Tgt Ion: 43 Resp: 374756

Ion Ratio Lower Upper

43 100

58 24.6 21.1 31.7



#16

1,3-Butadiene

Concen: 0.053 ppbv

RT: 3.36 min Scan# 133

Delta R.T. -0.01 min

Lab File: VL032813.D

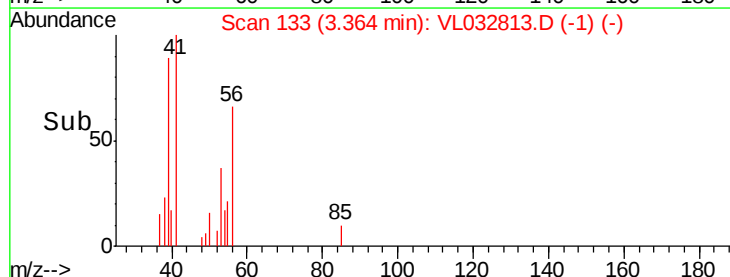
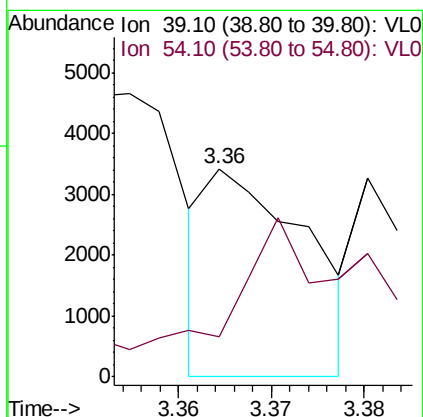
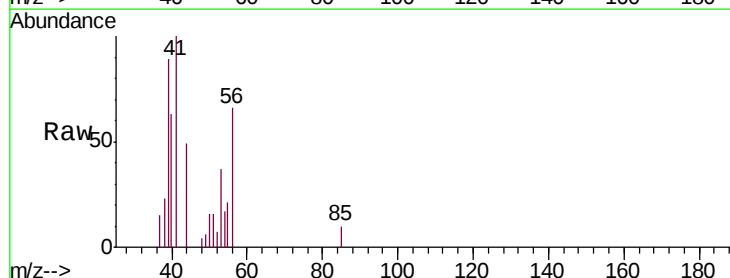
Acq: 27 Nov 2018 18:53

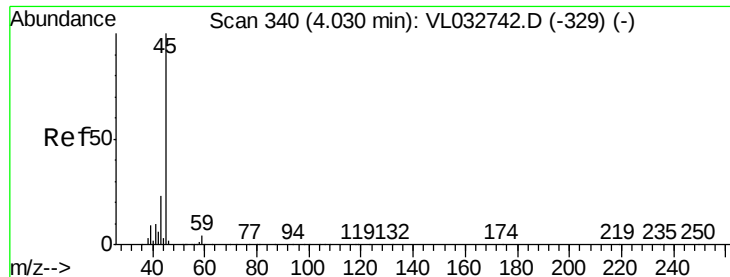
Tgt Ion: 39 Resp: 2540

Ion Ratio Lower Upper

39 100

54 150.7 68.9 103.3#





#19

Isopropyl Alcohol

Concen: 1.177 ppbv

RT: 4.07 min Scan# 351

Delta R.T. 0.04 min

Lab File: VL032813.D

Acq: 27 Nov 2018 18:53

Instrument :

MSVOA_L

ClientSampleId :

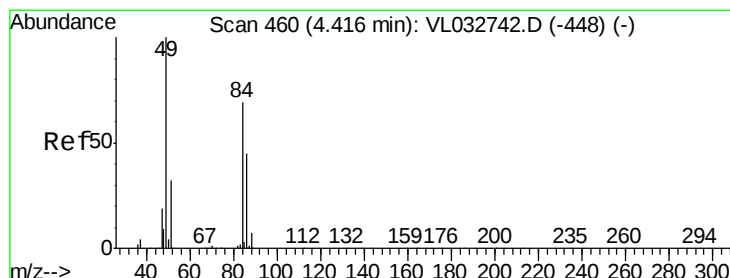
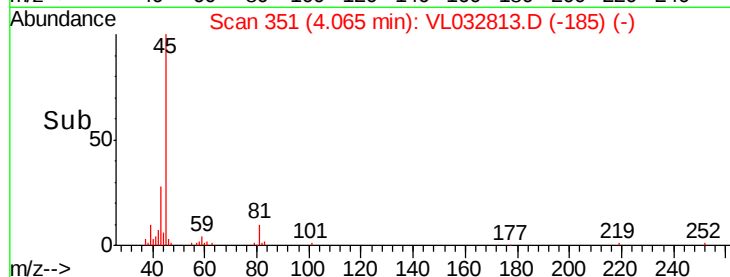
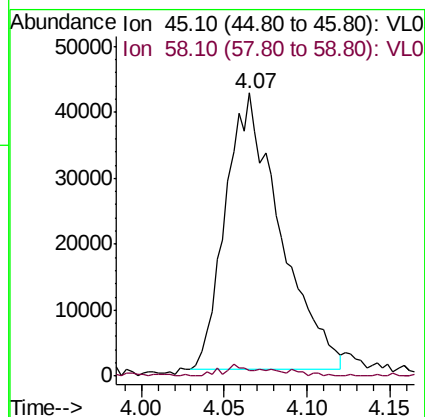
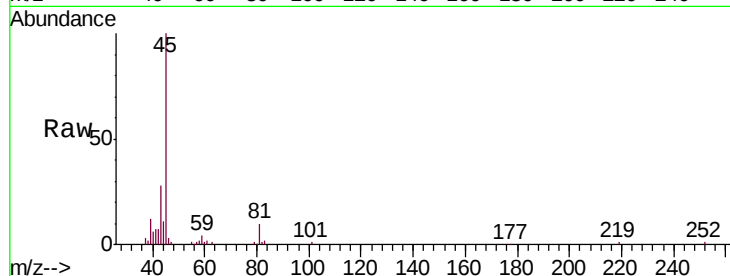
EP2-OA-01DUP

Tgt Ion: 45 Resp: 96125

Ion Ratio Lower Upper

45 100

58 3.6 1.4 2.0#



#20

Methylene Chloride

Concen: 14.056 ppbv

RT: 4.42 min Scan# 462

Delta R.T. 0.01 min

Lab File: VL032813.D

Acq: 27 Nov 2018 18:53

Tgt Ion: 84 Resp: 892440

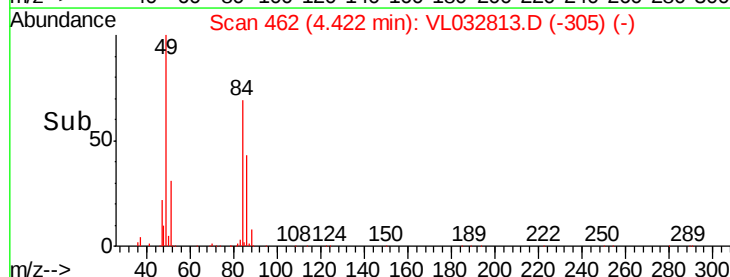
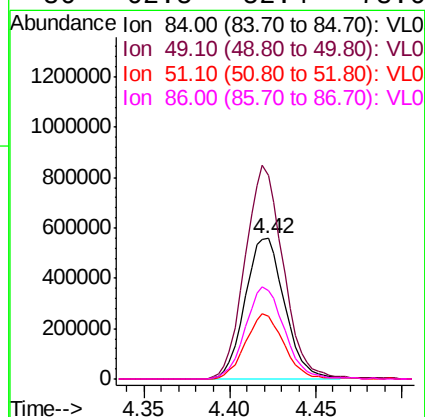
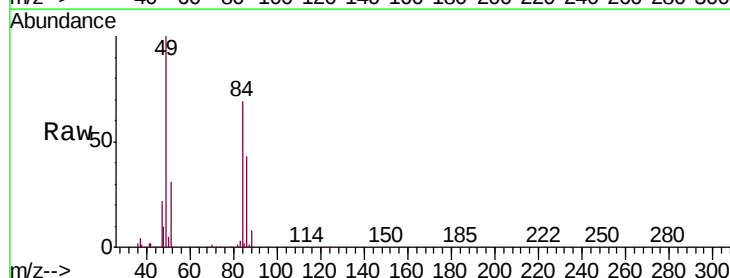
Ion Ratio Lower Upper

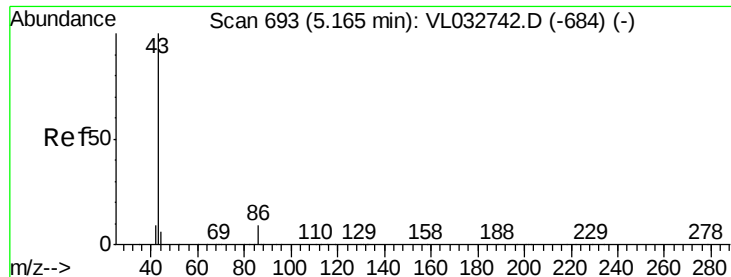
84 100

49 144.9 115.8 173.6

51 44.6 36.9 55.3

86 62.5 52.4 78.6





#23

Vinyl Acetate

Concen: 0.063 ppbv

RT: 5.16 min Scan# 690

Delta R.T. -0.01 min

Lab File: VL032813.D

Acq: 27 Nov 2018 18:53

Instrument :

MSVOA_L

ClientSampleId :

EP2-OA-01DUP

Tgt Ion: 43 Resp: 14001

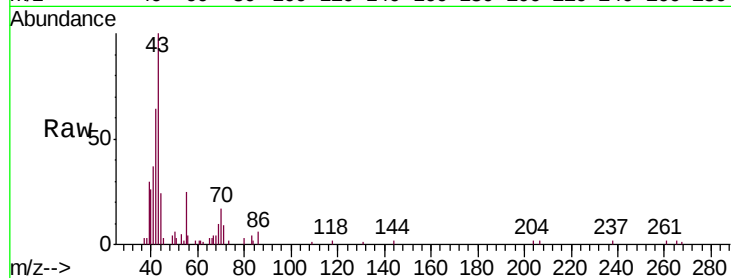
Ion Ratio Lower Upper

43 100

86 10.3 6.2 9.4#

42 82.0 7.8 11.6#

44 7.9 4.4 6.6#

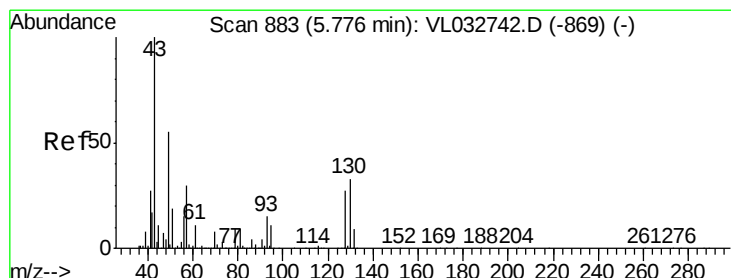
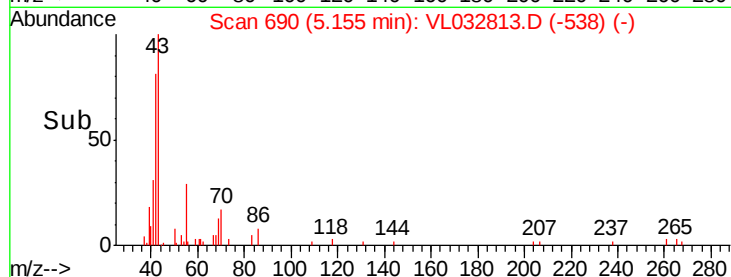
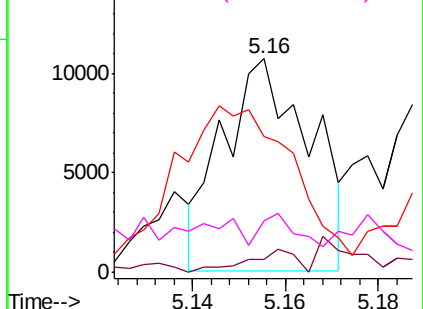


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 1.974 ppbv

RT: 5.79 min Scan# 888

Delta R.T. 0.02 min

Lab File: VL032813.D

Acq: 27 Nov 2018 18:53

Tgt Ion: 43 Resp: 564156

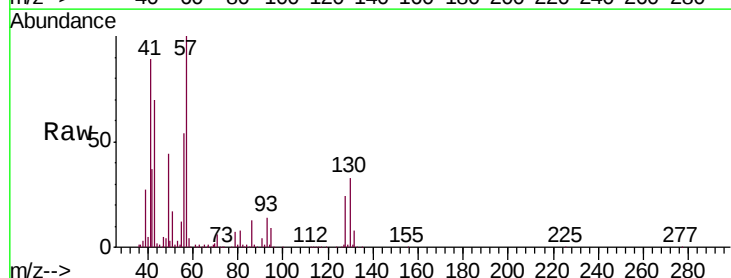
Ion Ratio Lower Upper

43 100

45 1.5 7.9 11.9#

61 1.2 7.8 11.6#

70 2.2 5.8 8.6#

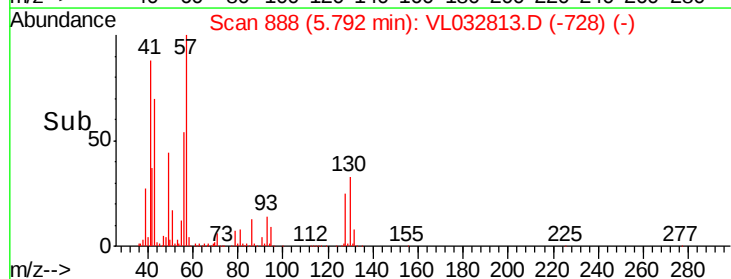
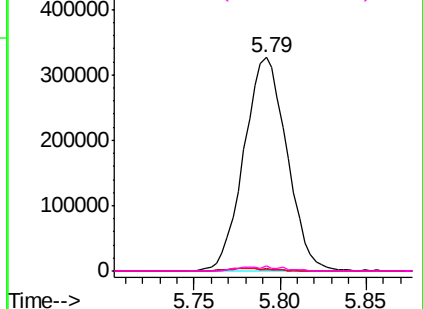


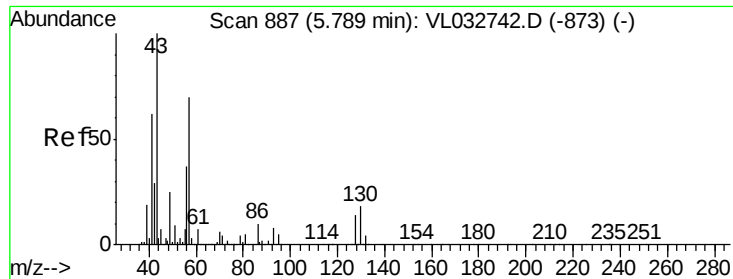
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

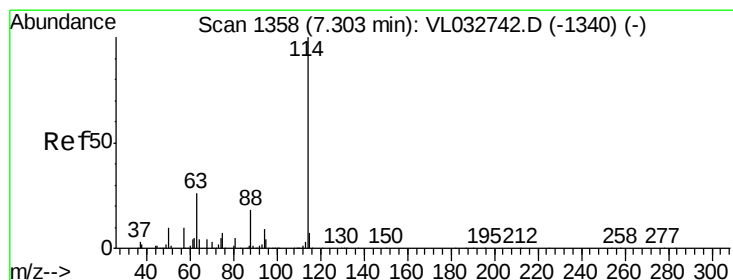
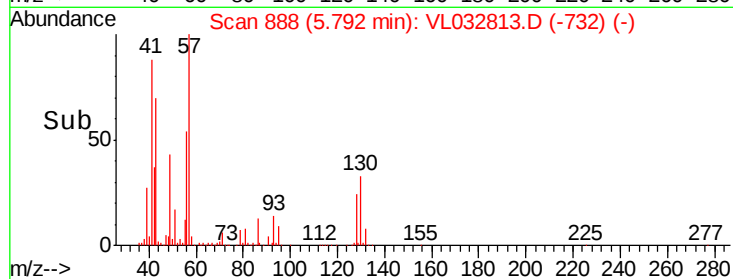
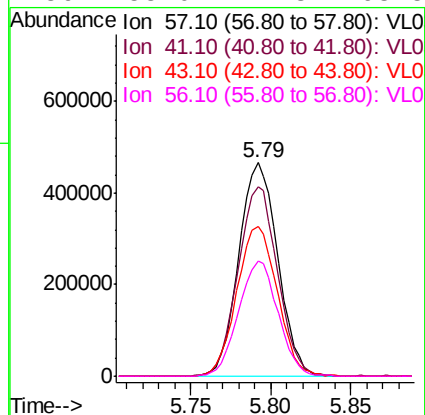
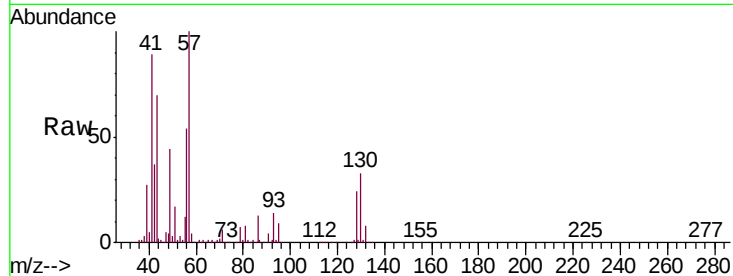




#26
Hexane
Concen: 6.057 ppbv
RT: 5.79 min Scan# 888
Delta R.T. 0.00 min
Lab File: VL032813.D
Acq: 27 Nov 2018 18:53

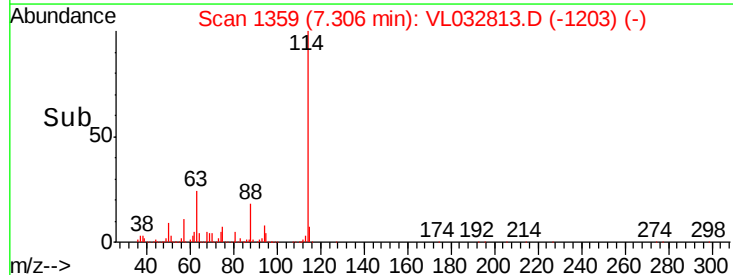
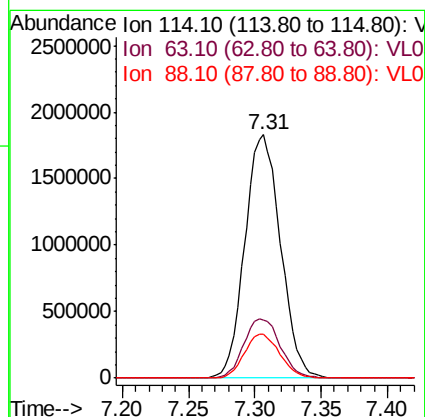
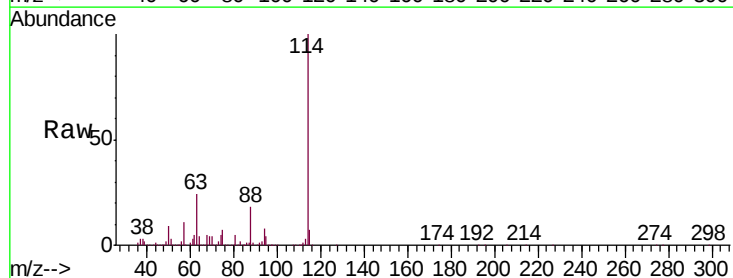
Instrument :
MSVOA_L
ClientSampleId :
EP2-OA-01DUP

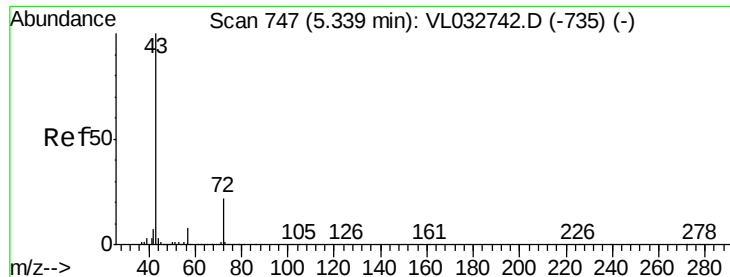
Tgt Ion:	57	Resp:	770629
Ion	Ratio	Lower	Upper
57	100		
41	90.8	70.3	105.5
43	73.7	174.0	261.0#
56	55.0	42.3	63.5



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.31 min Scan# 1359
Delta R.T. 0.00 min
Lab File: VL032813.D
Acq: 27 Nov 2018 18:53

Tgt Ion:	114	Resp:	3426661
Ion	Ratio	Lower	Upper
114	100		
63	25.0	20.9	31.3
88	18.0	14.4	21.6





#34

2-Butanone

Concen: 0.216 ppbv

RT: 5.35 min Scan# 751

Delta R.T. 0.01 min

Lab File: VL032813.D

Acq: 27 Nov 2018 18:53

Instrument :

MSVOA_L

ClientSampleId :

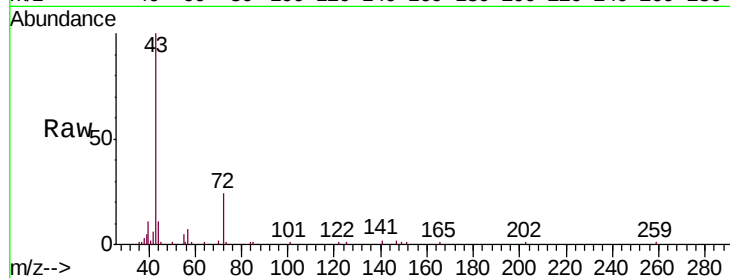
EP2-OA-01DUP

Tgt Ion: 43 Resp: 38348

Ion Ratio Lower Upper

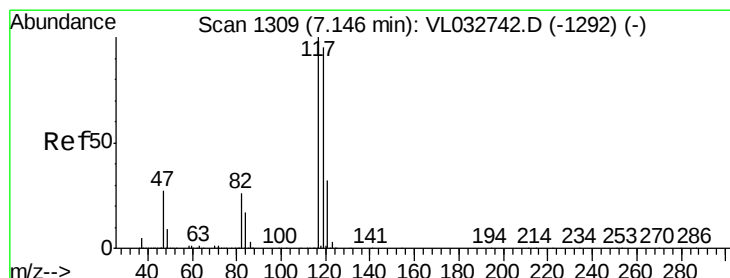
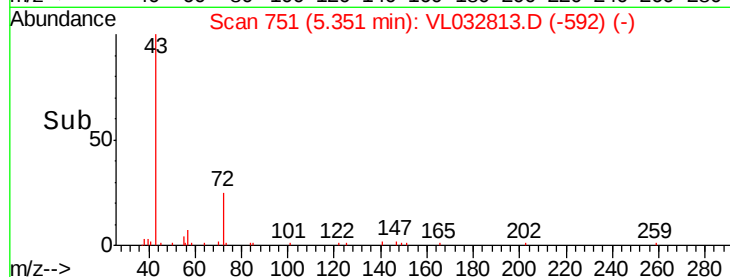
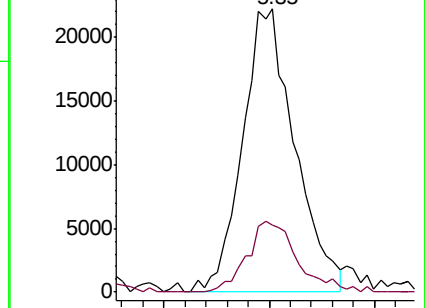
43 100

72 24.2 18.4 27.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.068 ppbv

RT: 7.15 min Scan# 1309

Delta R.T. -0.00 min

Lab File: VL032813.D

Acq: 27 Nov 2018 18:53

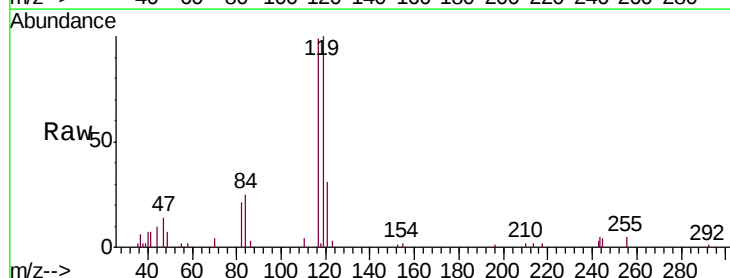
Tgt Ion: 117 Resp: 18660

Ion Ratio Lower Upper

117 100

119 99.5 76.1 114.1

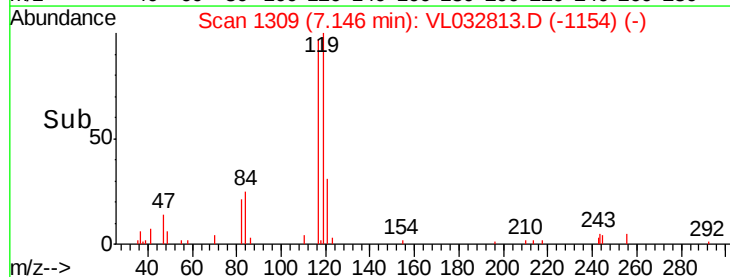
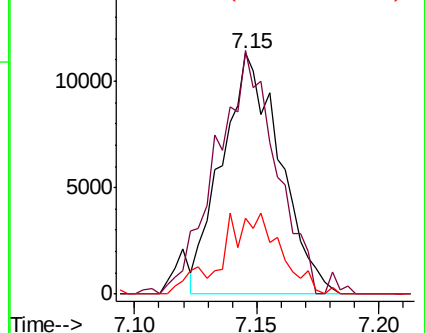
121 31.4 25.4 38.0

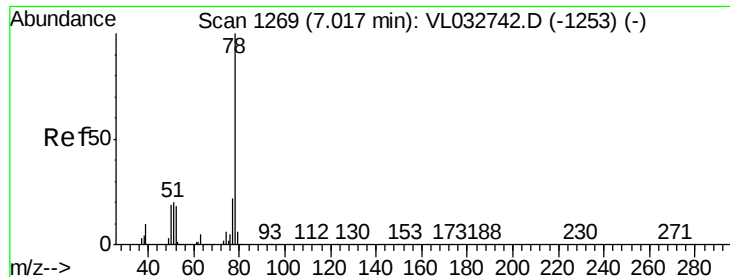


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 0.253 ppbv

RT: 7.02 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VL032813.D

Acq: 27 Nov 2018 18:53

Instrument :

MSVOA_L

ClientSampleId :

EP2-OA-01DUP

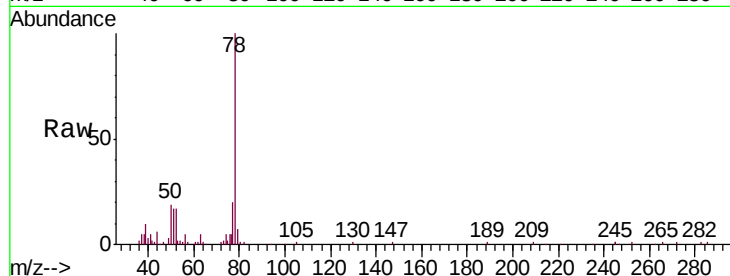
Tgt Ion: 78 Resp: 69135

Ion Ratio Lower Upper

78 100

77 20.0 17.8 26.8

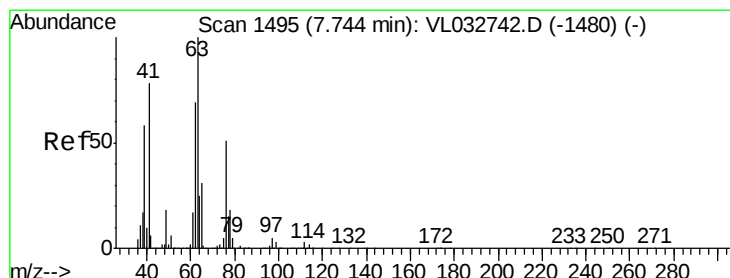
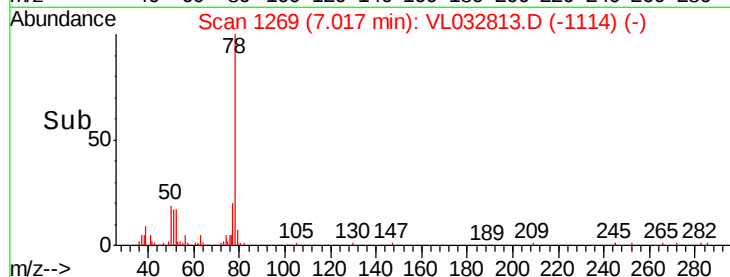
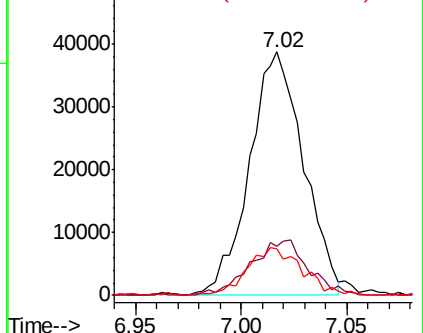
50 18.9 15.4 23.0



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: 8.187 ppbv

RT: 7.30 min Scan# 1358

Delta R.T. -0.44 min

Lab File: VL032813.D

Acq: 27 Nov 2018 18:53

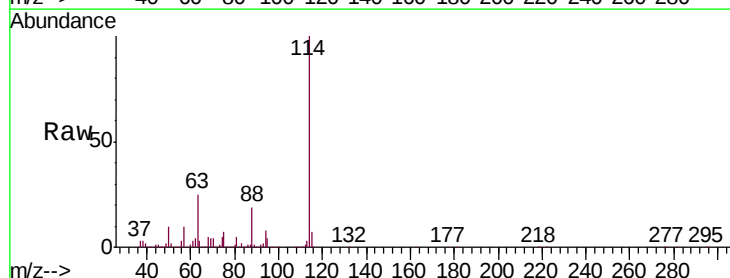
Tgt Ion: 63 Resp: 851188

Ion Ratio Lower Upper

63 100

41 0.0 62.0 93.0#

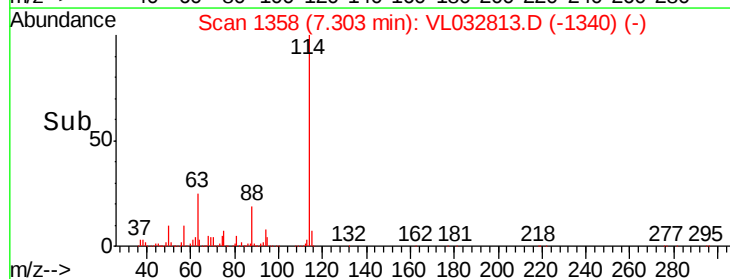
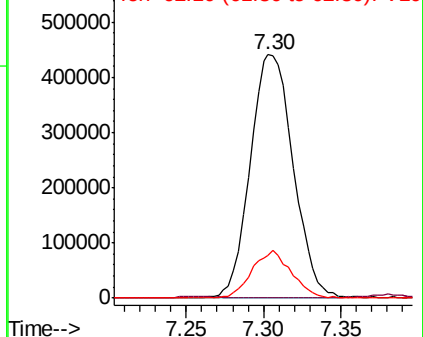
62 17.8 55.4 83.2#

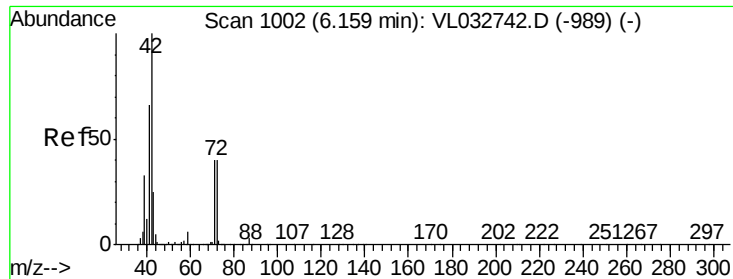


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#41

Tetrahydrofuran

Concen: 2.839 ppbv

RT: 5.79 min Scan# 888

Delta R.T. -0.37 min

Lab File: VL032813.D

Acq: 27 Nov 2018 18:53

Instrument :

MSVOA_L

ClientSampleId :

EP2-OA-01DUP

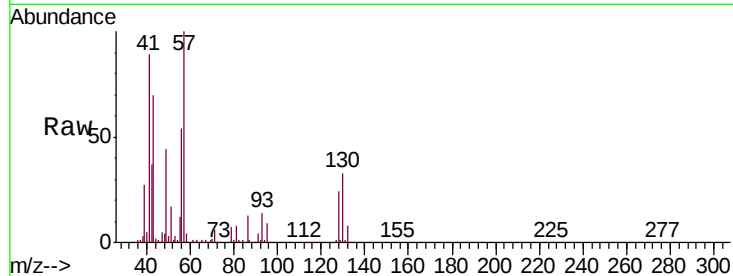
Tgt Ion: 42 Resp: 289416

Ion Ratio Lower Upper

42 100

72 1.1 32.4 48.6#

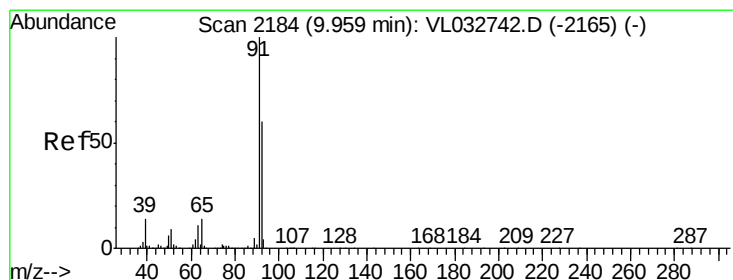
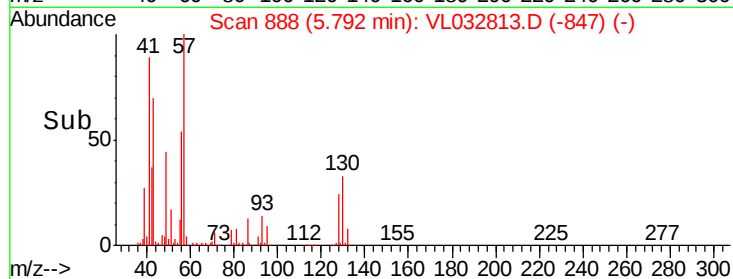
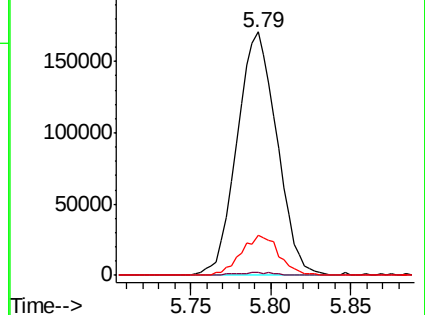
71 15.7 31.6 47.4#



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#53

Toluene

Concen: 0.505 ppbv

RT: 9.97 min Scan# 2186

Delta R.T. 0.01 min

Lab File: VL032813.D

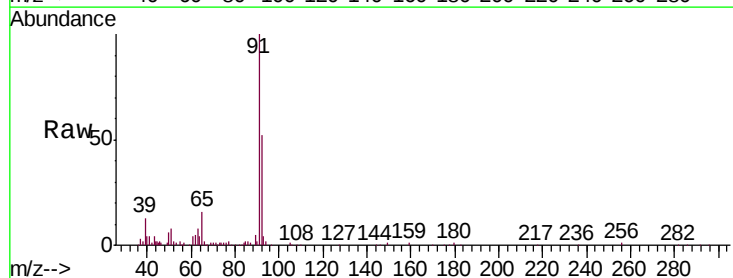
Acq: 27 Nov 2018 18:53

Tgt Ion: 91 Resp: 143756

Ion Ratio Lower Upper

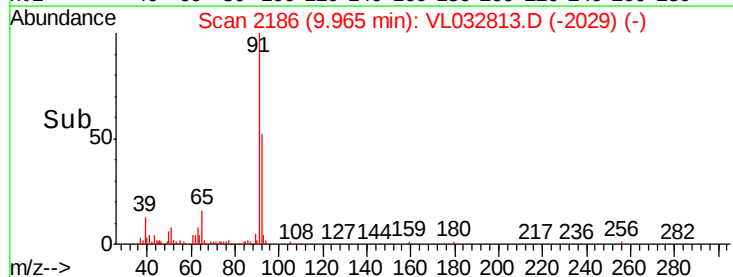
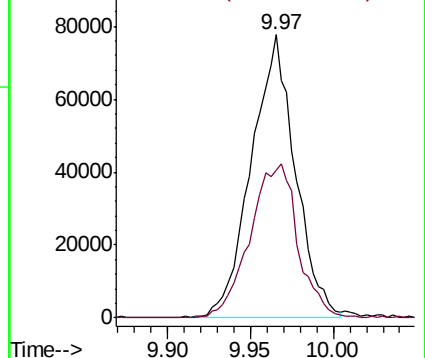
91 100

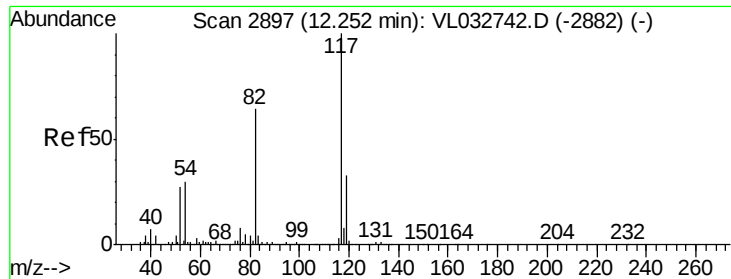
92 59.4 47.9 71.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

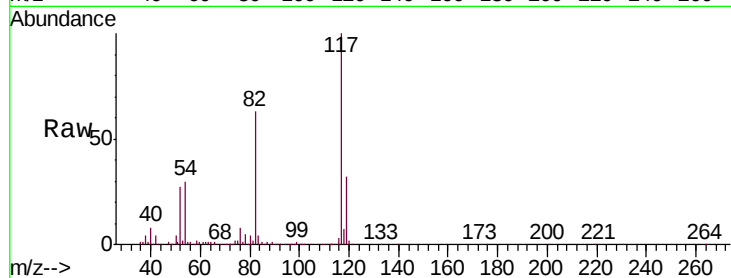




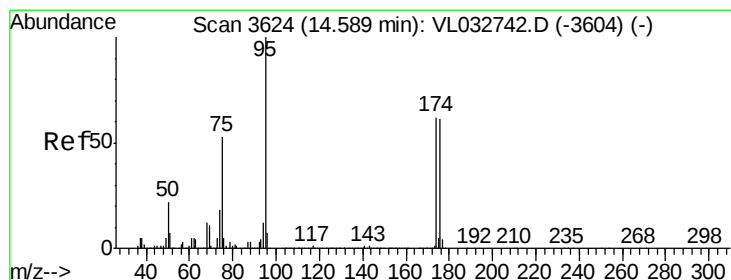
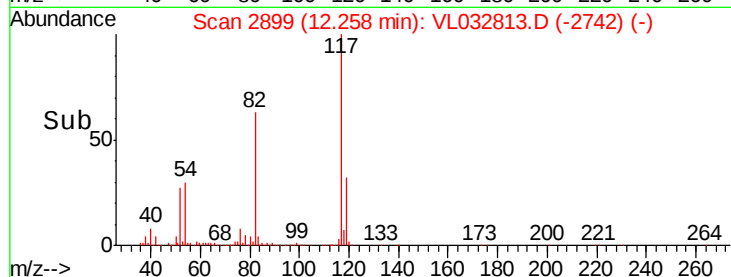
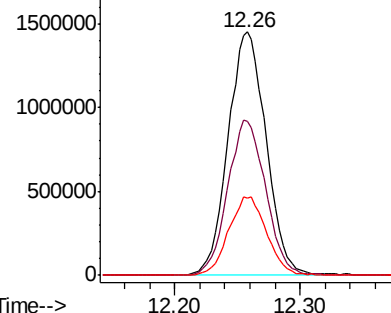
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.26 min Scan# 2899
Delta R.T. 0.01 min
Lab File: VL032813.D
Acq: 27 Nov 2018 18:53

Instrument :
MSVOA_L
ClientSampleId :
EP2-OA-01DUP

Tgt Ion: 117 Resp: 3055557
Ion Ratio Lower Upper
117 100
82 64.5 51.0 76.6
119 32.4 28.0 42.0

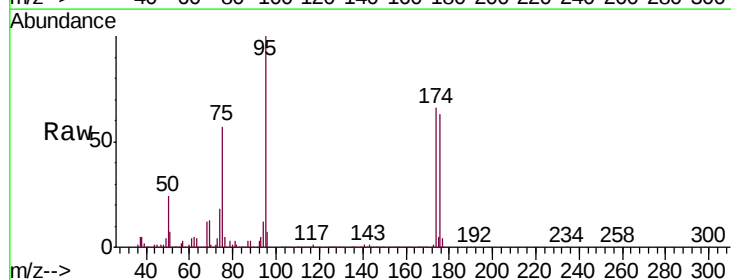


Abundance Ion 117.10 (116.80 to 117.80): V
2000000 Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 10.168 ppbv
RT: 14.59 min Scan# 3625
Delta R.T. 0.00 min
Lab File: VL032813.D
Acq: 27 Nov 2018 18:53

Tgt Ion: 95 Resp: 2323733
Ion Ratio Lower Upper
95 100
174 66.4 50.7 76.1
175 4.8 3.8 5.6



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

