

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX051420\
 Data File : VX016244.D
 Acq On : 14 May 2020 20:10
 Operator : JC/SP
 Sample : L2643-10MSD
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW601-200513MSD

Quant Time: May 15 01:37:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	244223	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	405994	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	375674	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	197174	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	151362	47.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.20%	
35) Dibromofluoromethane	5.46	113	122274	47.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.08%	
50) Toluene-d8	8.70	98	480041	48.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.88%	
62) 4-Bromofluorobenzene	11.12	95	187278	49.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.36%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.18	85	129381	50.05	ug/l	99
3) Chloromethane	1.31	50	139106	46.34	ug/l	100
4) Vinyl Chloride	1.39	62	150550	47.00	ug/l	100
5) Bromomethane	1.62	94	69917	43.30	ug/l	98
6) Chloroethane	1.70	64	92549	47.49	ug/l	98
7) Trichlorofluoromethane	1.91	101	196305	46.68	ug/l	99
8) Diethyl Ether	2.17	74	82541	46.59	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	2.36	101	114846	47.34	ug/l	99
10) Methyl Iodide	2.49	142	127896	39.25	ug/l	99
11) Tert butyl alcohol	3.03	59	189491	233.17	ug/l	100
12) 1,1-Dichloroethene	2.36	96	117008	46.09	ug/l	96
13) Acrolein	2.27	56	135379	266.21	ug/l	98
14) Allyl chloride	2.70	41	209689	45.05	ug/l	95
15) Acrylonitrile	3.12	53	411181	243.90	ug/l	99
16) Acetone	2.42	43	327203	228.19	ug/l	95
17) Carbon Disulfide	2.55	76	334342	43.83	ug/l	99
18) Methyl Acetate	2.75	43	169133	47.97	ug/l	98
19) Methyl tert-butyl Ether	3.17	73	436816	49.91	ug/l	99
20) Methylene Chloride	2.83	84	137505	46.52	ug/l	98
21) trans-1,2-Dichloroethene	3.14	96	134785	47.64	ug/l	97
22) Diisopropyl ether	3.82	45	418101	47.61	ug/l	96
23) Vinyl Acetate	3.79	43	1770123	229.11	ug/l	99
24) 1,1-Dichloroethane	3.67	63	243038	49.47	ug/l	100
25) 2-Butanone	4.64	43	554909	240.15	ug/l	99
26) 2,2-Dichloropropane	4.55	77	190007	42.35	ug/l	97
27) cis-1,2-Dichloroethene	4.57	96	169769	54.89	ug/l	95
28) Bromochloromethane	4.98	49	101723	45.41	ug/l	96
29) Tetrahydrofuran	5.09	42	368302	240.56	ug/l	98
30) Chloroform	5.18	83	245517	50.20	ug/l	100
31) Cyclohexane	5.55	56	208973	46.81	ug/l	99
32) 1,1,1-Trichloroethane	5.46	97	218668	49.18	ug/l	99
36) 1,1-Dichloropropene	5.77	75	184105	46.07	ug/l	99
37) Ethyl Acetate	4.79	43	206784	44.64	ug/l	98
38) Carbon Tetrachloride	5.75	117	190399	46.87	ug/l	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX051420\
 Data File : VX016244.D
 Acq On : 14 May 2020 20:10
 Operator : JC/SP
 Sample : L2643-10MSD
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW601-200513MSD

Quant Time: May 15 01:37:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.44	83	207113	43.03	ug/l	99
40) Benzene	6.12	78	559641	47.86	ug/l	99
41) Methacrylonitrile	5.01	41	117181	46.84	ug/l	98
42) 1,2-Dichloroethane	6.17	62	193974	46.05	ug/l	99
43) Isopropyl Acetate	6.42	43	335545	45.40	ug/l	98
44) Trichloroethene	7.19	130	198832	47.86	ug/l	98
45) 1,2-Dichloropropane	7.49	63	144824	48.95	ug/l	99
46) Dibromomethane	7.64	93	95400	47.45	ug/l	99
47) Bromodichloromethane	7.88	83	200936	49.07	ug/l	98
48) Methyl methacrylate	7.75	41	159516	45.55	ug/l	94
49) 1,4-Dioxane	7.71	88	76719	913.44	ug/l	99
51) 4-Methyl-2-Pentanone	8.62	43	1082622	239.38	ug/l	98
52) Toluene	8.77	92	353559	48.51	ug/l	100
53) t-1,3-Dichloropropene	9.02	75	231069	47.32	ug/l	98
54) cis-1,3-Dichloropropene	8.42	75	241000	47.25	ug/l	94
55) 1,1,2-Trichloroethane	9.20	97	143066	49.89	ug/l	99
56) Ethyl methacrylate	9.16	69	234014	49.99	ug/l	94
57) 1,3-Dichloropropane	9.35	76	244226	48.81	ug/l	100
59) 2-Hexanone	9.48	43	842715	237.27	ug/l	97
60) Dibromochloromethane	9.57	129	160470	50.81	ug/l	99
61) 1,2-Dibromoethane	9.65	107	152034	48.95	ug/l	100
64) Tetrachloroethene	9.32	164	202090	43.82	ug/l	99
65) Chlorobenzene	10.12	112	375562	47.74	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.21	131	145025	49.88	ug/l	99
67) Ethyl Benzene	10.24	91	669866	47.73	ug/l	99
68) m/p-Xylenes	10.34	106	513527	97.66	ug/l	100
69) o-Xylene	10.68	106	248221	49.11	ug/l	100
70) Styrene	10.70	104	420333	49.02	ug/l	99
71) Bromoform	10.84	173	126431	53.37	ug/l #	100
73) Isopropylbenzene	11.00	105	662351	46.18	ug/l	99
74) N-amyl acetate	10.88	43	291577	43.59	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.26	83	177105	61.14	ug/l	99
76) 1,2,3-Trichloropropane	11.28	75	283342	63.33	ug/l	83
77) Bromobenzene	11.24	156	170630	46.09	ug/l	99
78) n-propylbenzene	11.35	91	759260	45.51	ug/l	100
79) 2-Chlorotoluene	11.41	91	460316	46.74	ug/l	99
80) 1,3,5-Trimethylbenzene	11.49	105	567942	46.90	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.06	75	85803	45.70	ug/l	97
82) 4-Chlorotoluene	11.49	91	539902	46.43	ug/l	99
83) tert-Butylbenzene	11.76	119	495484	47.48	ug/l	97
84) 1,2,4-Trimethylbenzene	11.79	105	575915	47.04	ug/l	99
85) sec-Butylbenzene	11.93	105	629205	44.66	ug/l	99
86) p-Isopropyltoluene	12.05	119	592260	45.27	ug/l	99
87) 1,3-Dichlorobenzene	12.01	146	305944	46.03	ug/l	99
88) 1,4-Dichlorobenzene	12.09	146	310010	45.95	ug/l	100
89) n-Butylbenzene	12.37	91	510460	42.71	ug/l	100
90) Hexachloroethane	12.58	117	104256	46.41	ug/l	95
91) 1,2-Dichlorobenzene	12.38	146	295931	46.24	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	12.98	75	54397	46.13	ug/l	97
93) 1,2,4-Trichlorobenzene	13.63	180	210903	44.51	ug/l	97

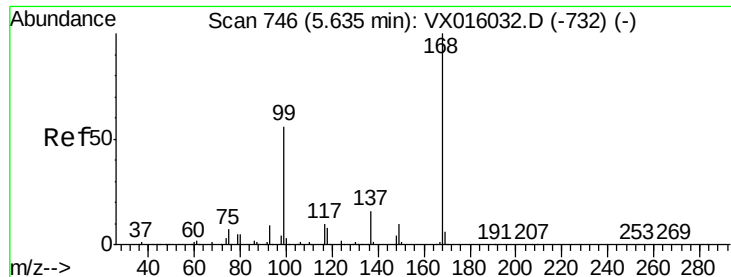
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX051420\
Data File : VX016244.D
Acq On : 14 May 2020 20:10
Operator : JC/SP
Sample : L2643-10MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
SS052MW601-200513MSD

Quant Time: May 15 01:37:29 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
Quant Title : SW846 8260
QLast Update : Wed May 06 06:43:32 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	13.77	225	75403	37.09	ug/l	99
95) Naphthalene	13.82	128	722111	47.07	ug/l	100
96) 1,2,3-Trichlorobenzene	14.01	180	208718	45.07	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX016244.D

Acq: 14 May 2020 20:10

Instrument :

MSVOA_X

ClientSampleId :

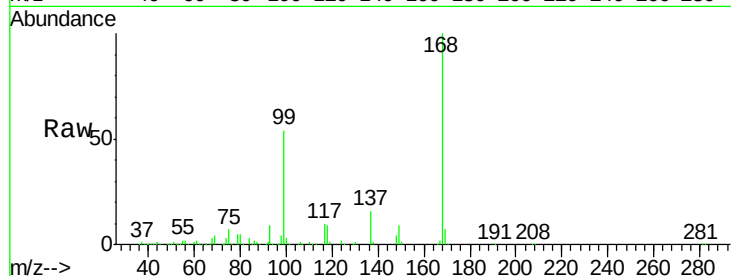
SS052MW601-200513MSD

Tgt Ion:168 Resp: 244223

Ion Ratio Lower Upper

168 100

99 54.3 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

100000

80000

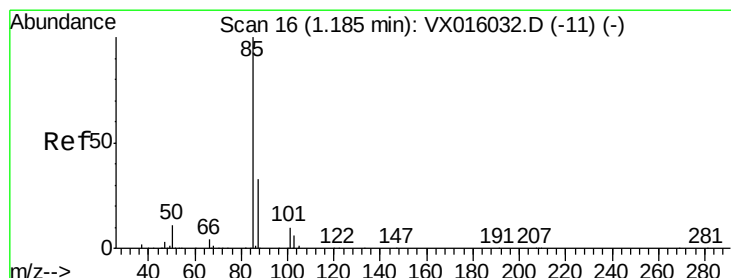
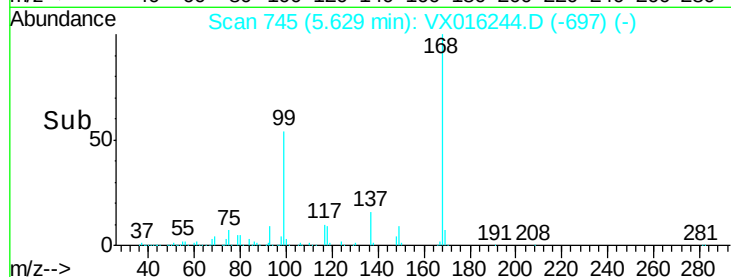
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 50.05 ug/l

RT: 1.18 min Scan# 16

Delta R.T. -0.00 min

Lab File: VX016244.D

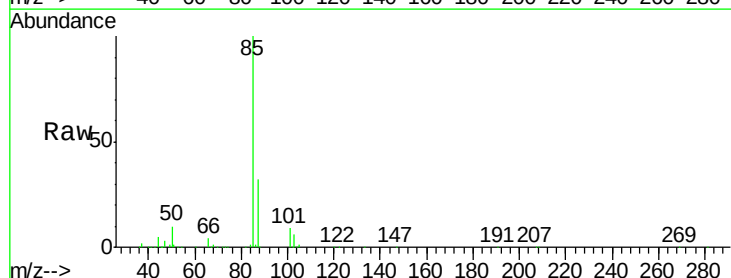
Acq: 14 May 2020 20:10

Tgt Ion: 85 Resp: 129381

Ion Ratio Lower Upper

85 100

87 32.3 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

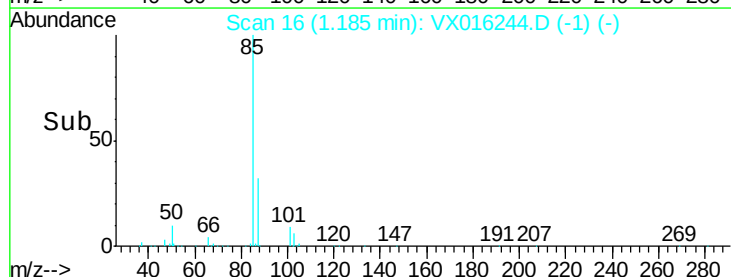
150000

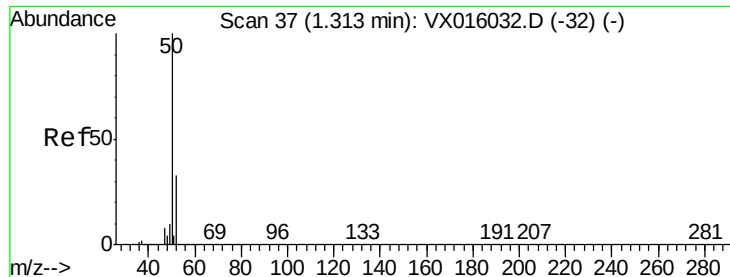
100000

50000

0

Time-->





#3

Chloromethane

Concen: 46.34 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX016244.D

Acq: 14 May 2020 20:10

Instrument :

MSVOA_X

ClientSampleId :

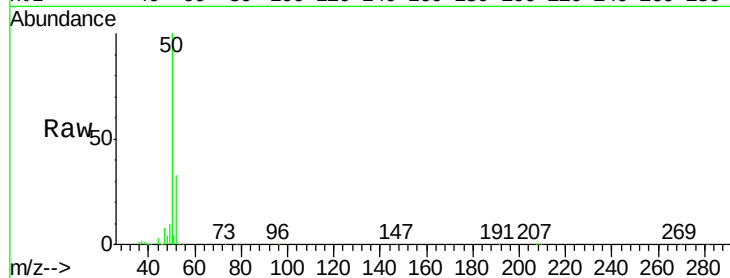
SS052MW601-200513MSD

Tgt Ion: 50 Resp: 139106

Ion Ratio Lower Upper

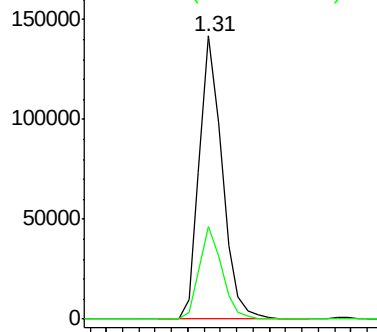
50 100

52 32.8 26.1 39.1

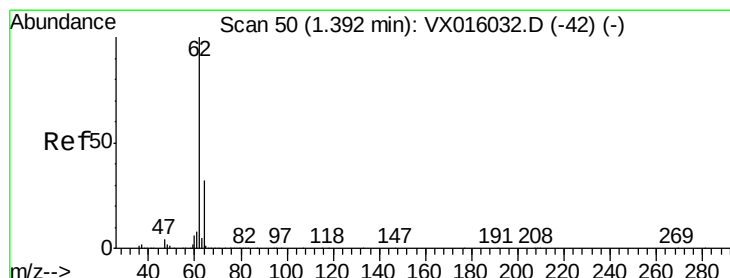
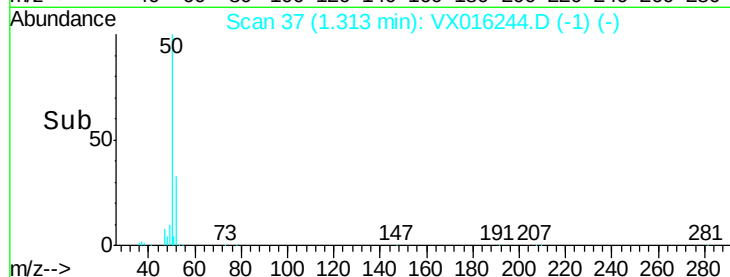


Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



Time-->



#4

Vinyl Chloride

Concen: 47.00 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX016244.D

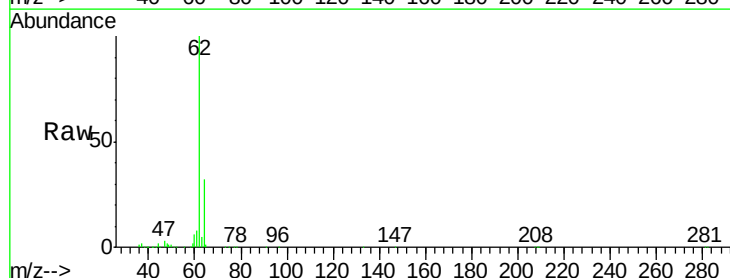
Acq: 14 May 2020 20:10

Tgt Ion: 62 Resp: 150550

Ion Ratio Lower Upper

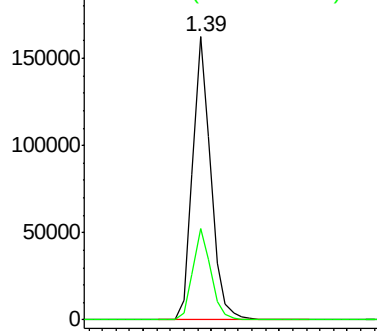
62 100

64 32.2 25.7 38.5

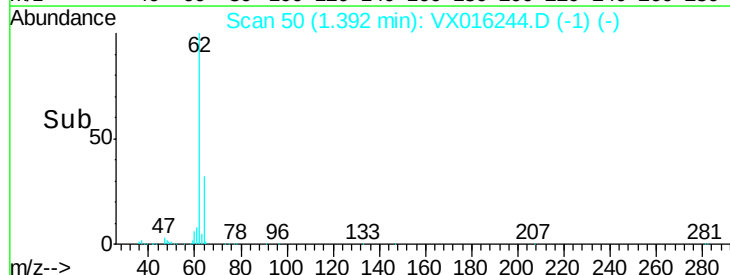


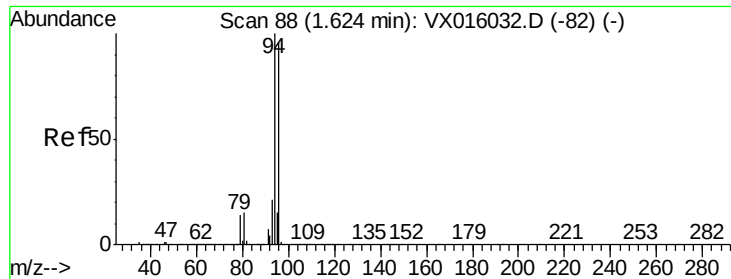
Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



Time-->





#5

Bromomethane

Concen: 43.30 ug/l

RT: 1.62 min Scan# 88

Delta R.T. -0.00 min

Lab File: VX016244.D

Acq: 14 May 2020 20:10

Instrument :

MSVOA_X

ClientSampleId :

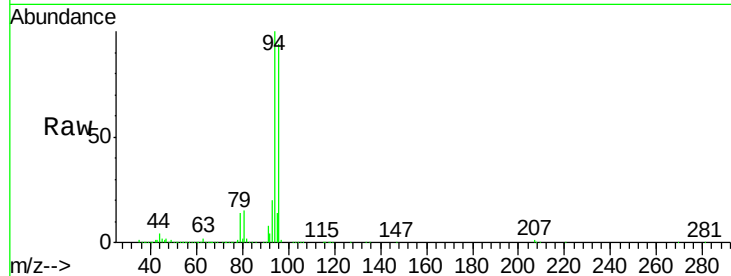
SS052MW601-200513MSD

Tgt Ion: 94 Resp: 69917

Ion Ratio Lower Upper

94 100

96 93.9 76.9 115.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.62

80000

60000

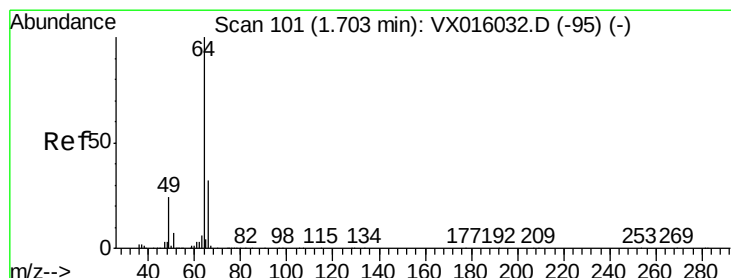
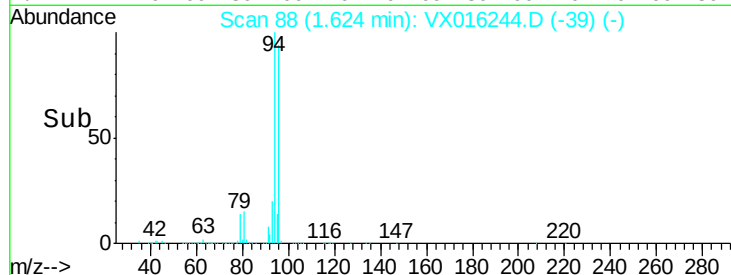
40000

20000

0

Time-->

1.55 1.60 1.65 1.70



#6

Chloroethane

Concen: 47.49 ug/l

RT: 1.70 min Scan# 101

Delta R.T. -0.00 min

Lab File: VX016244.D

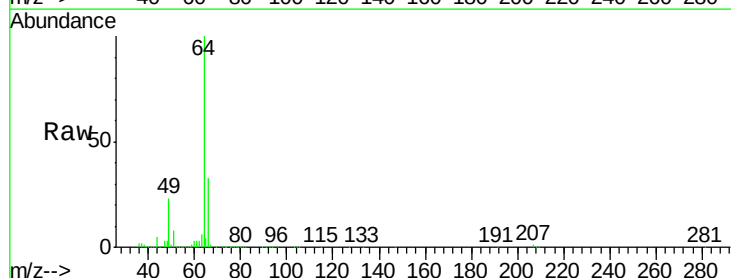
Acq: 14 May 2020 20:10

Tgt Ion: 64 Resp: 92549

Ion Ratio Lower Upper

64 100

66 32.8 25.2 37.8



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.70

80000

60000

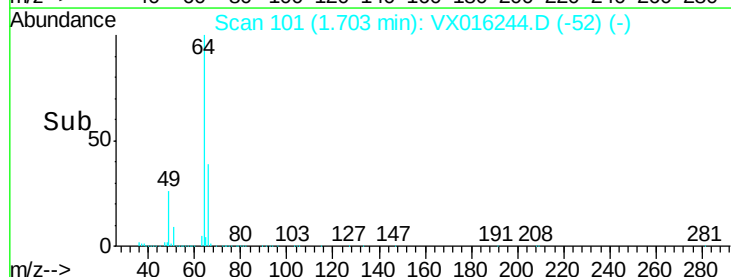
40000

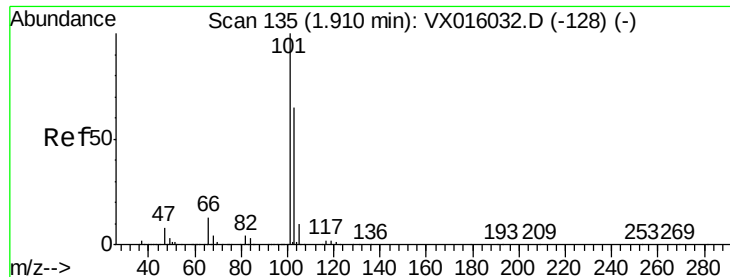
20000

0

Time-->

1.60 1.70 1.80





#7

Trichlorofluoromethane

Concen: 46.68 ug/l

RT: 1.91 min Scan# 135

Delta R.T. -0.00 min

Lab File: VX016244.D

Acq: 14 May 2020 20:10

Instrument :

MSVOA_X

ClientSampleId :

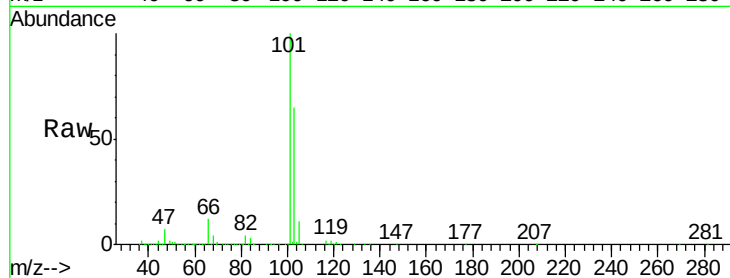
SS052MW601-200513MSD

Tgt Ion: 101 Resp: 196305

Ion Ratio Lower Upper

101 100

103 65.2 51.8 77.6



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

1.91

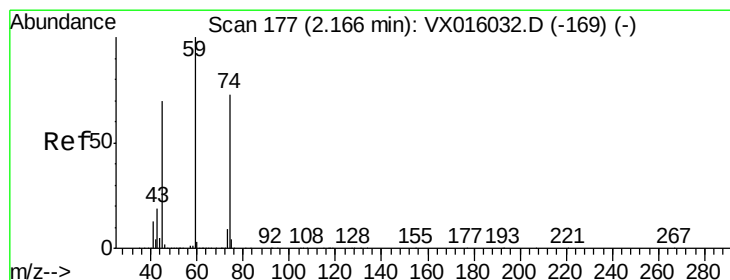
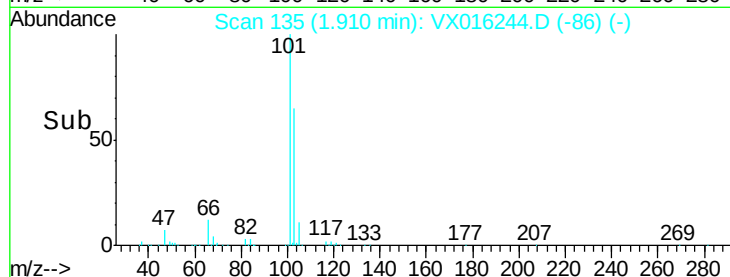
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 46.59 ug/l

RT: 2.17 min Scan# 177

Delta R.T. -0.00 min

Lab File: VX016244.D

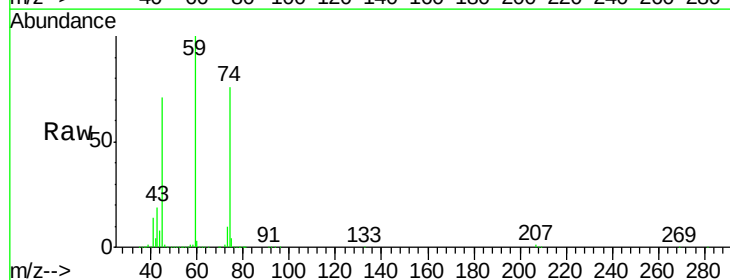
Acq: 14 May 2020 20:10

Tgt Ion: 74 Resp: 82541

Ion Ratio Lower Upper

74 100

45 91.0 47.3 142.0



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.17

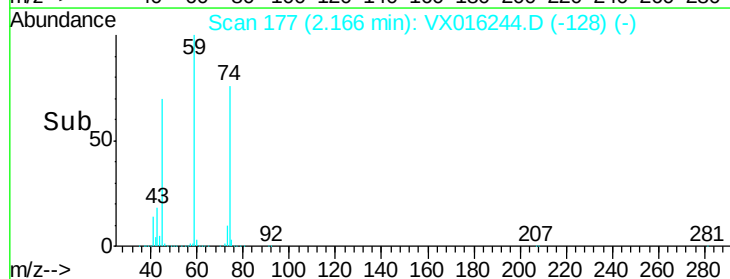
60000

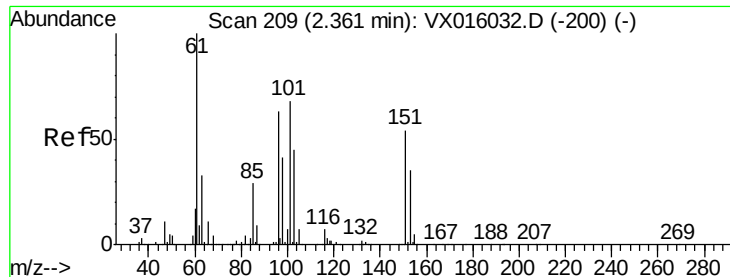
40000

20000

0

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.34 ug/l

RT: 2.36 min Scan# 209

Delta R.T. -0.00 min

Lab File: VX016244.D

Acq: 14 May 2020 20:10

Instrument :

MSVOA_X

ClientSampleId :

SS052MW601-200513MSD

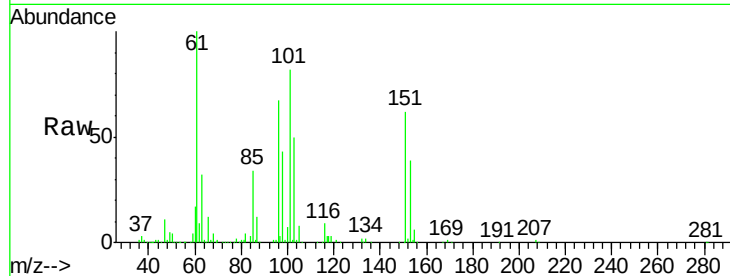
Tgt Ion:101 Resp: 114846

Ion Ratio Lower Upper

101 100

85 42.2 34.2 51.4

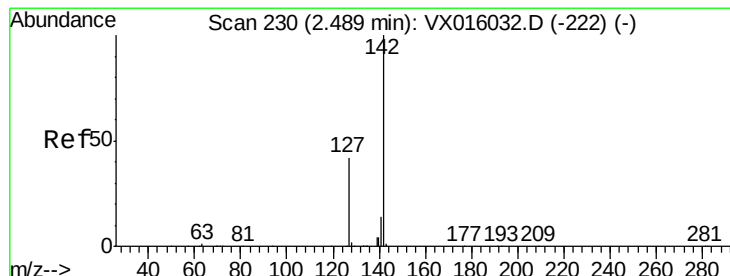
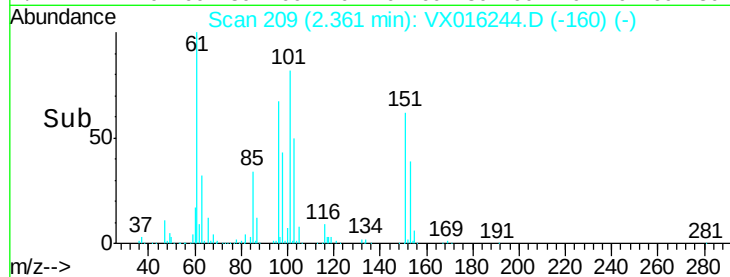
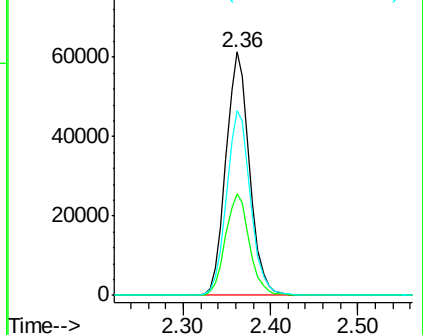
151 77.0 62.1 93.1



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 39.25 ug/l

RT: 2.49 min Scan# 230

Delta R.T. -0.00 min

Lab File: VX016244.D

Acq: 14 May 2020 20:10

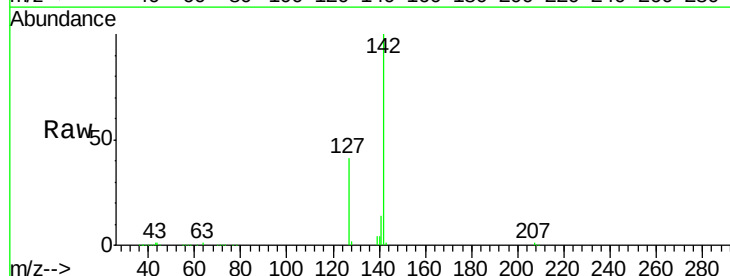
Tgt Ion:142 Resp: 127896

Ion Ratio Lower Upper

142 100

127 42.8 34.6 52.0

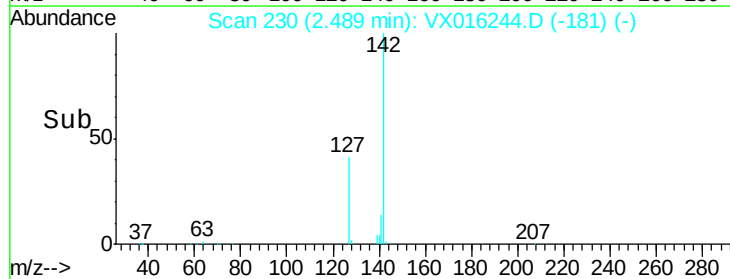
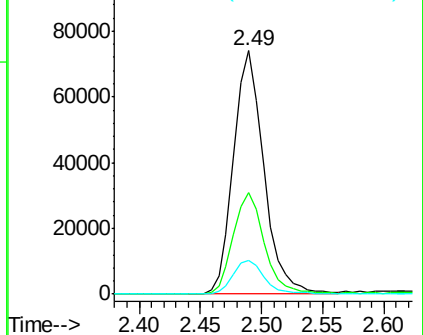
141 14.5 11.3 16.9

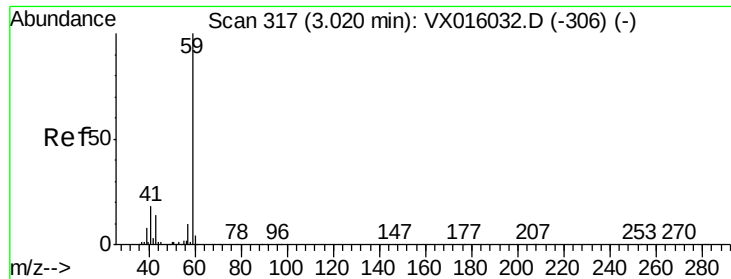


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



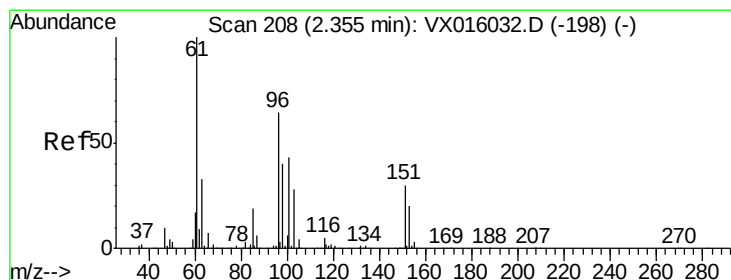
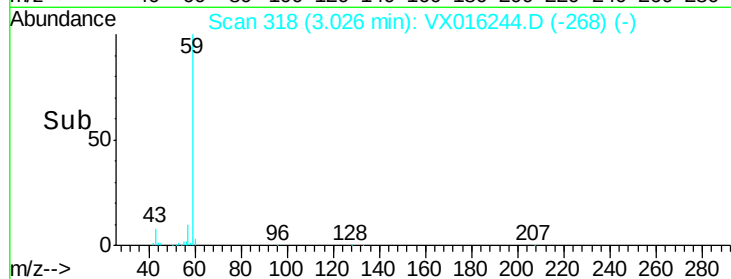
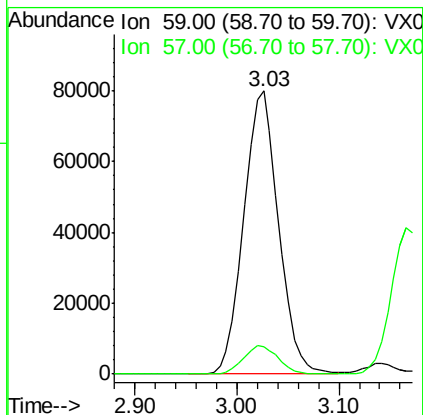
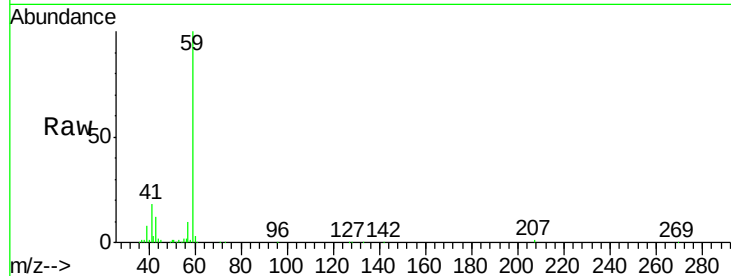


#11

Tert butyl alcohol
Concen: 233.17 ug/l
RT: 3.03 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX016244.D
Acq: 14 May 2020 20:10

Instrument :
MSVOA_X
ClientSampleId :
SS052MW601-200513MSD

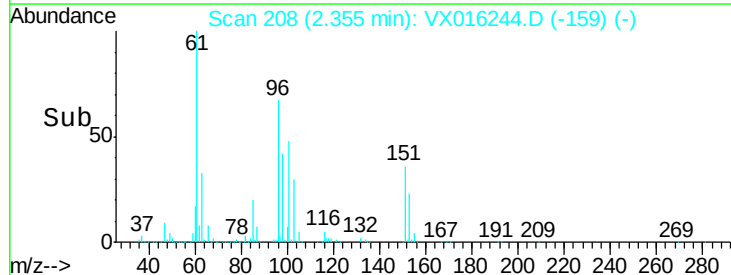
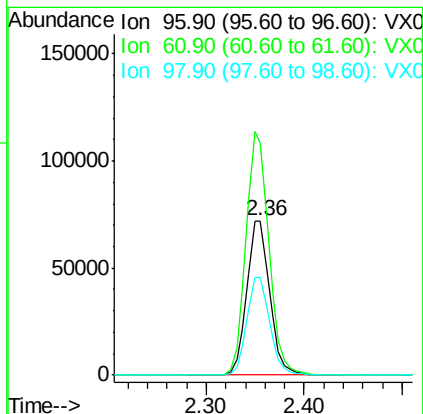
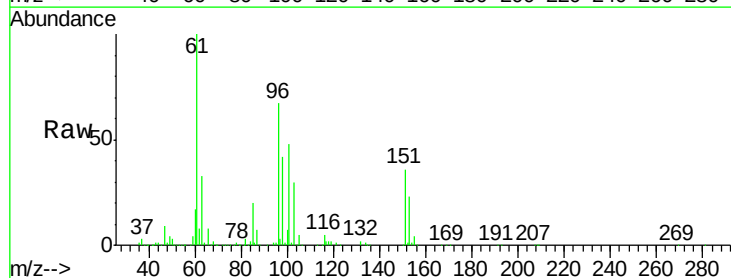
Tgt Ion: 59 Resp: 189491
Ion Ratio Lower Upper
59 100
57 10.2 8.2 12.4

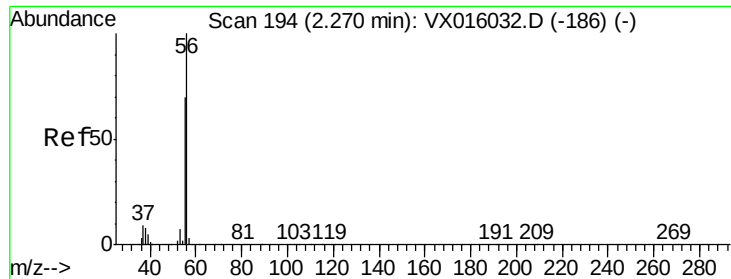


#12

1,1-Dichloroethene
Concen: 46.09 ug/l
RT: 2.36 min Scan# 208
Delta R.T. -0.00 min
Lab File: VX016244.D
Acq: 14 May 2020 20:10

Tgt Ion: 96 Resp: 117008
Ion Ratio Lower Upper
96 100
61 150.1 124.8 187.2
98 63.5 49.7 74.5





#13

Acrolein

Concen: 266.21 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VX016244.D

Acq: 14 May 2020 20:10

Instrument :

MSVOA_X

ClientSampleId :

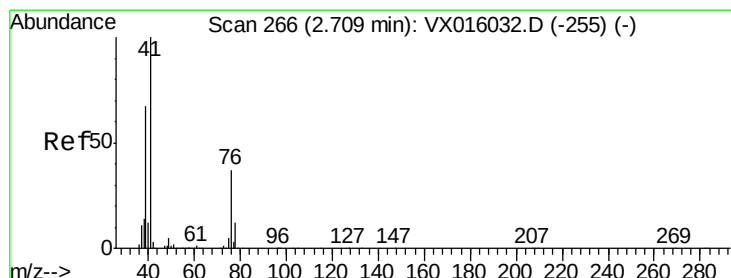
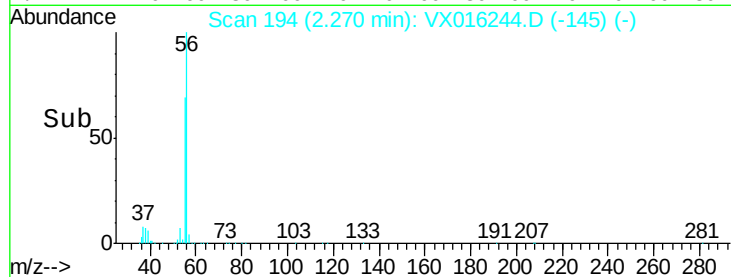
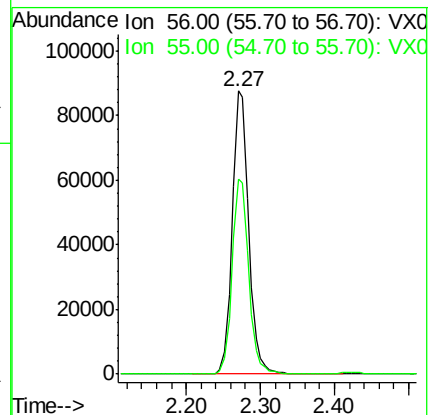
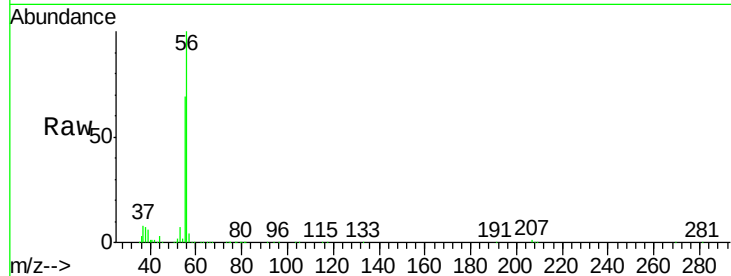
SS052MW601-200513MSD

Tgt Ion: 56 Resp: 135379

Ion Ratio Lower Upper

56 100

55 69.1 56.5 84.7



#14

Allyl chloride

Concen: 45.05 ug/l

RT: 2.70 min Scan# 265

Delta R.T. -0.01 min

Lab File: VX016244.D

Acq: 14 May 2020 20:10

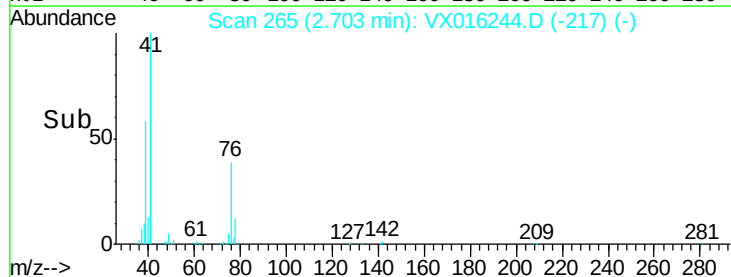
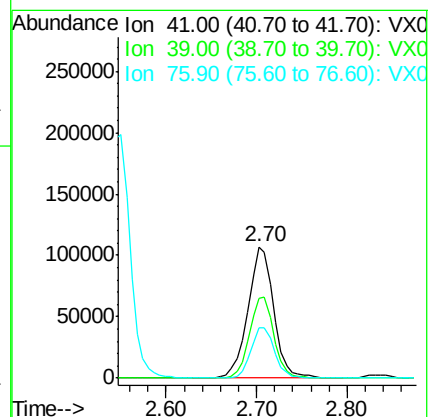
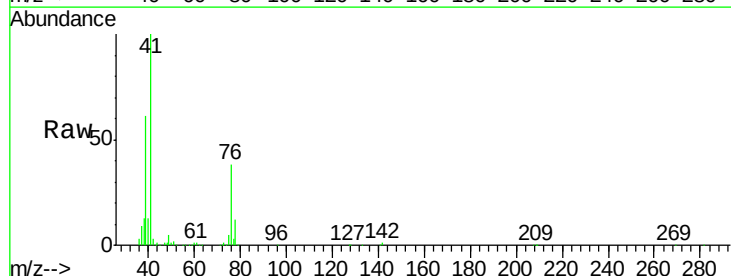
Tgt Ion: 41 Resp: 209689

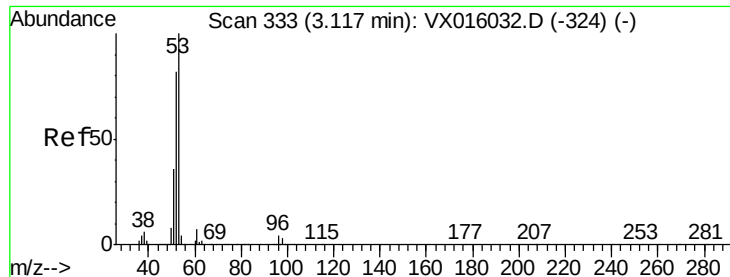
Ion Ratio Lower Upper

41 100

39 58.7 50.5 75.7

76 35.7 26.6 40.0





#15

Acrylonitrile

Concen: 243.90 ug/l

RT: 3.12 min Scan# 333

Delta R.T. -0.00 min

Lab File: VX016244.D

Acq: 14 May 2020 20:10

Instrument :

MSVOA_X

ClientSampleId :

SS052MW601-200513MSD

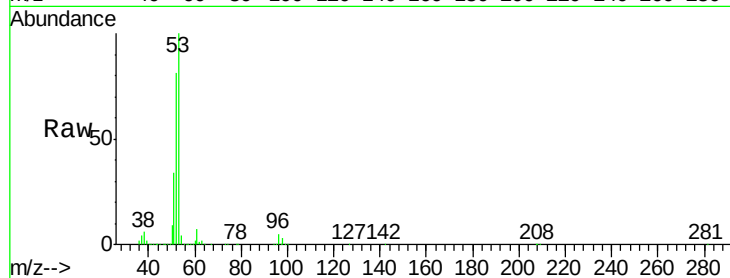
Tgt Ion: 53 Resp: 411181

Ion Ratio Lower Upper

53 100

52 81.7 66.1 99.1

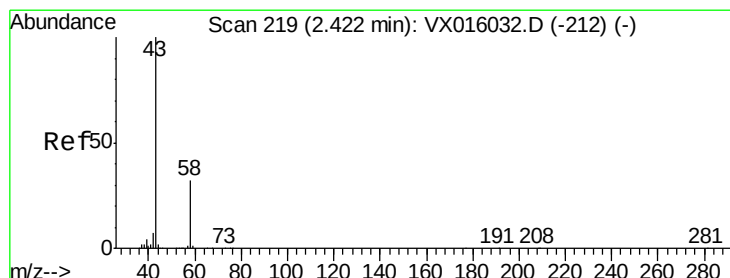
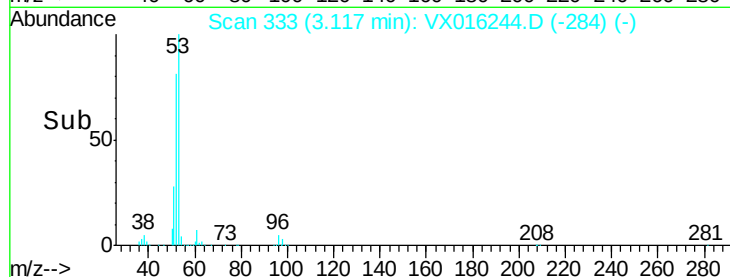
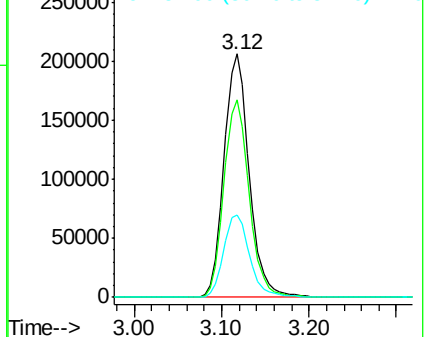
51 35.0 28.8 43.2



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 228.19 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX016244.D

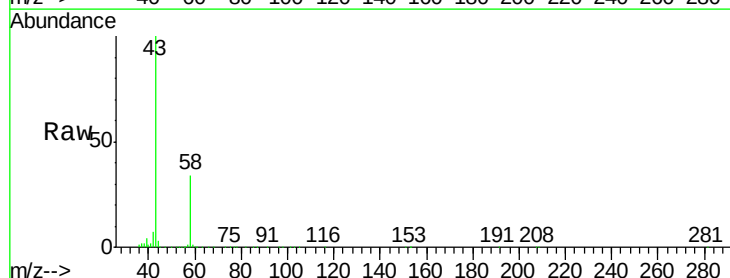
Acq: 14 May 2020 20:10

Tgt Ion: 43 Resp: 327203

Ion Ratio Lower Upper

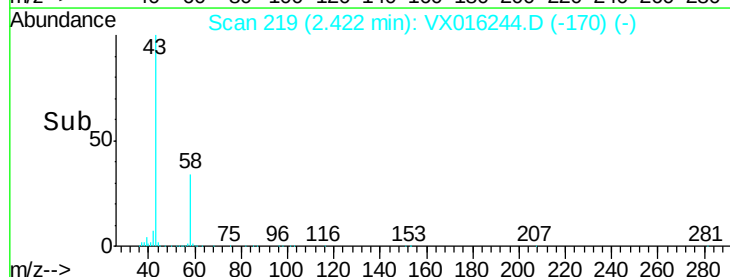
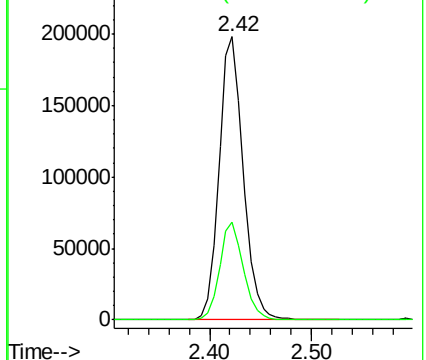
43 100

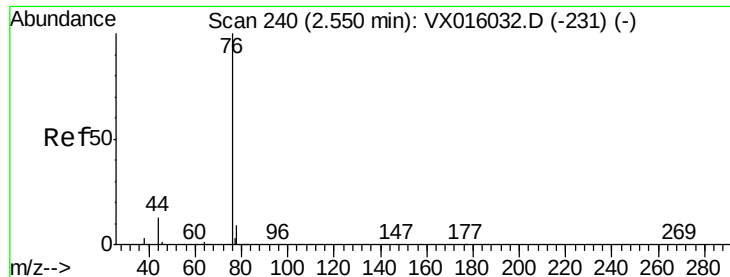
58 34.3 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 43.83 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX016244.D

Acq: 14 May 2020 20:10

Instrument :

MSVOA_X

ClientSampleId :

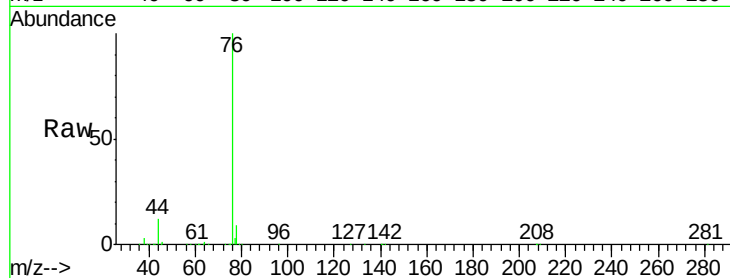
SS052MW601-200513MSD

Tgt Ion: 76 Resp: 334342

Ion Ratio Lower Upper

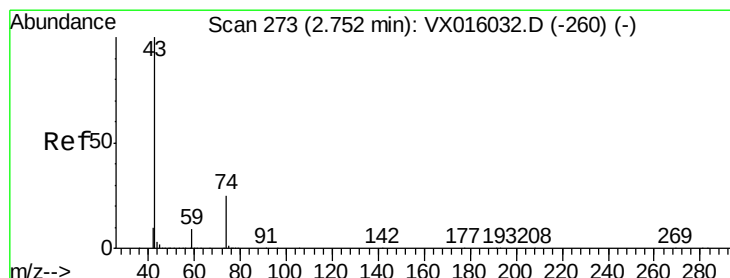
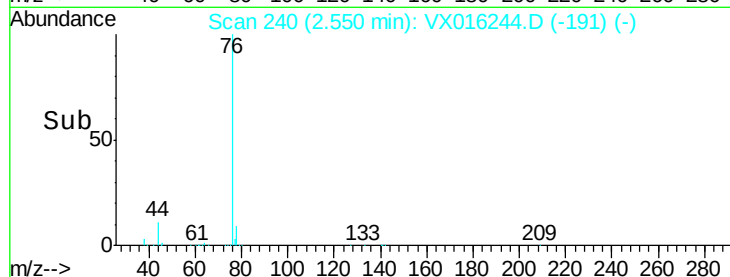
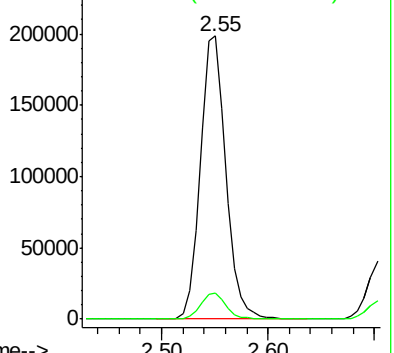
76 100

78 9.2 7.5 11.3



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 47.97 ug/l

RT: 2.75 min Scan# 273

Delta R.T. -0.00 min

Lab File: VX016244.D

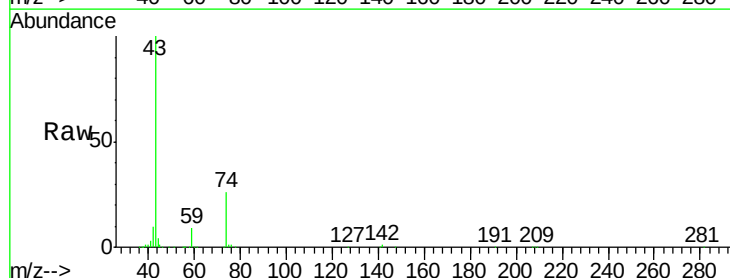
Acq: 14 May 2020 20:10

Tgt Ion: 43 Resp: 169133

Ion Ratio Lower Upper

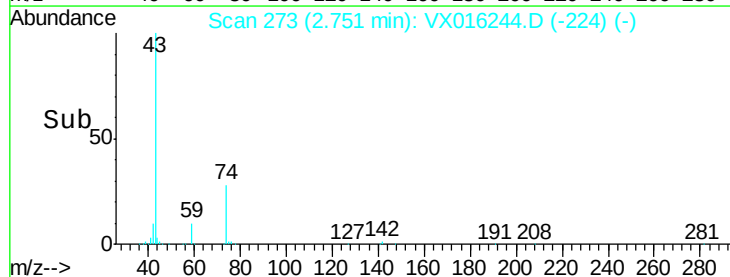
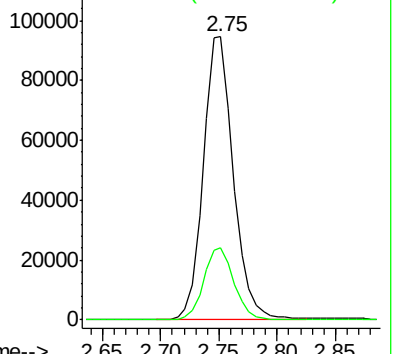
43 100

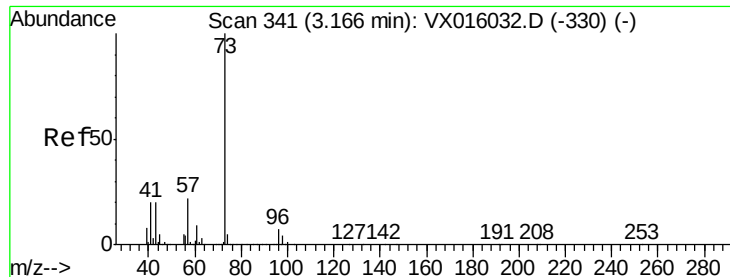
74 26.2 20.2 30.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

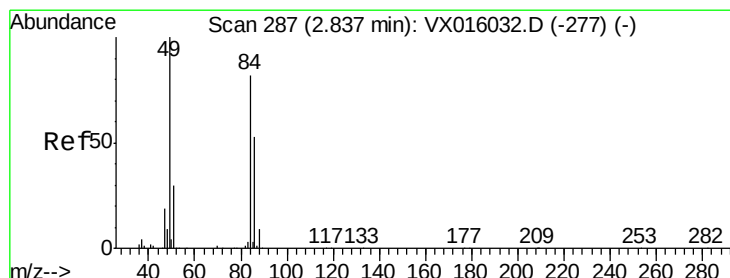
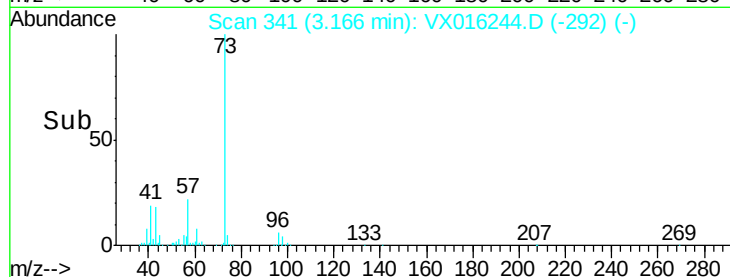
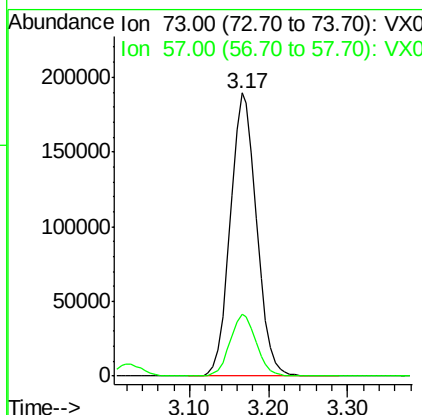
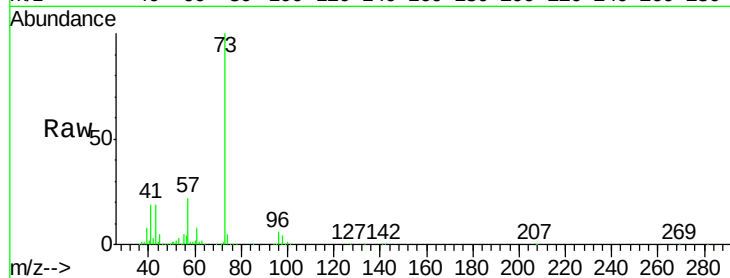




#19
Methyl tert-butyl Ether
Concen: 49.91 ug/l
RT: 3.17 min Scan# 341
Delta R.T. -0.00 min
Lab File: VX016244.D
Acq: 14 May 2020 20:10

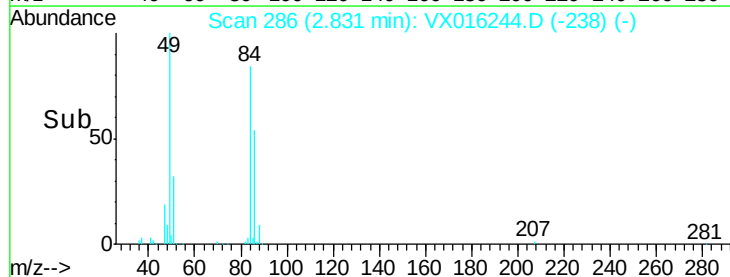
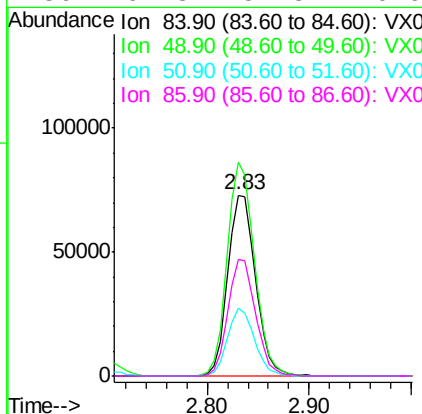
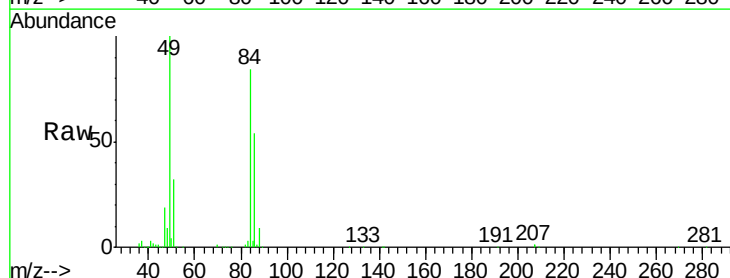
Instrument :
MSVOA_X
ClientSampleId :
SS052MW601-200513MSD

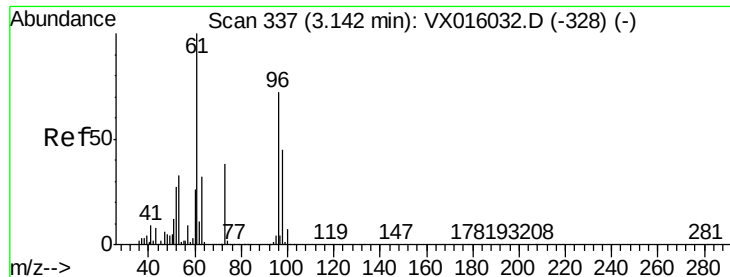
Tgt Ion: 73 Resp: 436816
Ion Ratio Lower Upper
73 100
57 21.9 17.8 26.6



#20
Methylene Chloride
Concen: 46.52 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.01 min
Lab File: VX016244.D
Acq: 14 May 2020 20:10

Tgt Ion: 84 Resp: 137505
Ion Ratio Lower Upper
84 100
49 118.3 97.3 145.9
51 37.3 29.3 43.9
86 64.3 51.3 76.9





#21

trans-1,2-Dichloroethene

Concen: 47.64 ug/l

RT: 3.14 min Scan# 337

Delta R.T. -0.00 min

Lab File: VX016244.D

Acq: 14 May 2020 20:10

Instrument :

MSVOA_X

ClientSampleId :

SS052MW601-200513MSD

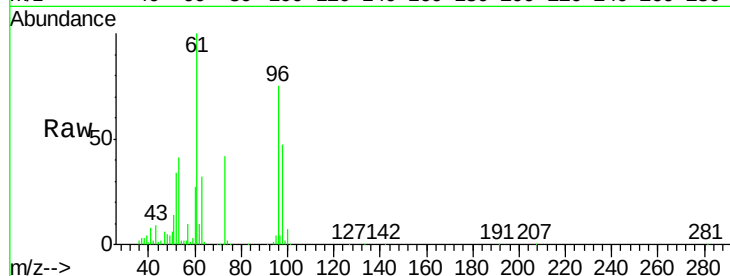
Tgt Ion: 96 Resp: 134785

Ion Ratio Lower Upper

96 100

61 133.2 111.2 166.8

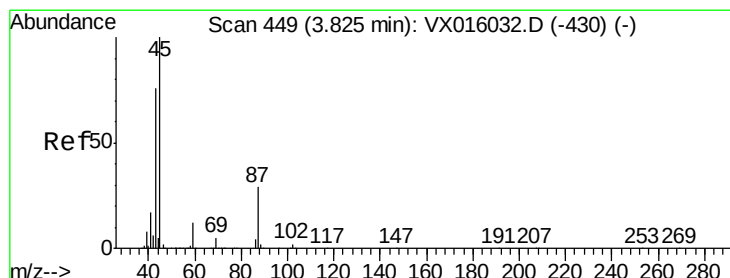
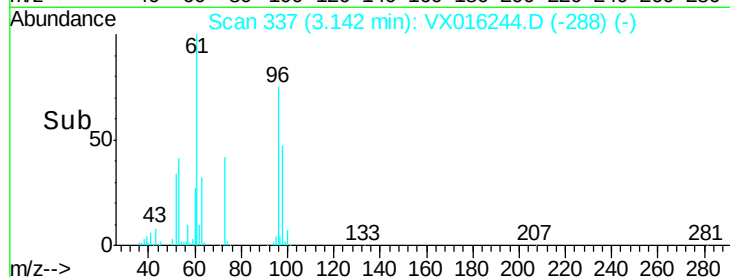
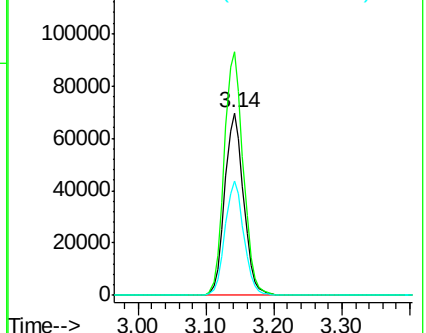
98 62.3 50.2 75.4



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#22

Diisopropyl ether

Concen: 47.61 ug/l

RT: 3.82 min Scan# 449

Delta R.T. -0.00 min

Lab File: VX016244.D

Acq: 14 May 2020 20:10

Tgt Ion: 45 Resp: 418101

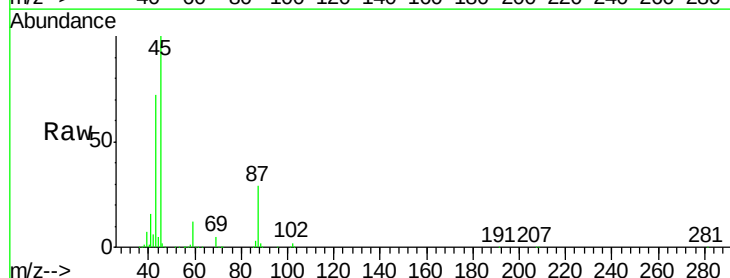
Ion Ratio Lower Upper

45 100

43 72.0 61.1 91.7

87 29.4 23.0 34.6

59 11.9 9.8 14.6



Abundance Ion 45.00 (44.70 to 45.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

Ion 59.00 (58.70 to 59.70): VX0

